Final
Remedial Investigation/Remedial Alternatives Analysis Report

Bisonite Paint Company
Brownfield Cleanup Program
2266 Military Road and 2268 Military Road
Tonawanda, New York 14510
Site No. C915010

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LIST OF ABBREVIATIONS

ACM	ACM Northfield CR#3 LLC
AOC	Areas of Concern
BCA	Brownfield Cleanup Agreement
BCP	Brownfield Cleanup Program
CAMP	Community Air Monitoring Program
COC	Contaminant of Concern
DER	Division of Environmental Remediation
DUSR	Data Usability Summary Report
ECL	Environmental Compliance List
GW SCO	Soil Cleanup Objective for the Protection of Groundwater
HASP	Health and Safety Plan
IHWDS	Inactive Hazardous Waste Disposal Site
IRM	Interim Remedial Measure
MNA	Monitored Natural Attenuation
MRA	Military Road Associates, Inc.
NAPL	Non-Aqueous Phase Liquid
NTU	Nephelometric Units
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
OVA	Organic Vapor Analyzer
PAH	Polycyclic Aromatic Hydrocarbons
PCB	Polychlorinated biphenyl
PCE	Perchlororthylene (a.k.a. Tetrachloroethylene)
PFAS	Per and Polyfluoroalkyl Substances
PFOA	Perfluorooctane Acid
PFOS	Perfluorooctane Sulfonic Acid
PID	Photoionization Detector
PSA	Preliminary Site Assessment
PSGW SCO	Project-specific Protection of Groundwater Soil Cleanup Objective
PVC	Poly Vinyl Chloride
RAAR	Remedial Alternative Analysis Report
RAWP	Remedial Action Work Plan
RCRA	Resource Conservation and Recovery Act
CSCO	Restricted Commercial Use Soil Cleanup Objective
RIR	Remedial Investigation Report
RIWP	Remedial Investigation Work Plan
SC	Site Characterization
SCO	Soil Cleanup Objective
SER	Site Evaluation Report
SRI	Supplemental Remedial Investigation
SS	Surface Sample
SV	Soil Vapor
SVOC	Semi-volatile Organic Compound
SWP	Supplemental Work Plan
TAL	Target Analyte List

TALM	Target Analyte List Metals
TCLP	Toxicity Characteristic Leaching Procedure
TIC	Tentatively Identified Compounds
TOG	Top of Groundwater
TSP	Tonawanda Storage Properties, LLC
USCO	Unrestricted Use Soil Cleanup Objective
VCP	Voluntary Cleanup Program
VOC	Volatile Organic Compounds
QAPP	Quality Assurance Project Plan

Certification

I, Dixon Rollins, certify that I am currently a NYS registered professional engineer as defined in 6 NYCRR Part 375 and that this Remedial Investigation/Alternatives Analysis Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER-approved work plan and any DER approved modifications.

Registered Professional Engineer



Dixon F. Rollins

Signature

11/28/23

Date

1.0 INTRODUCTION

This Remedial Investigation/Remedial Alternative Analysis Report ("RI/RAAR") has been prepared in accordance with the New York State Department of Environmental Conservation's ("NYSDEC") Brownfield Cleanup Program ("BCP"). The property owner, ACM Northfield CR#3 LLC ("ACM"), entered into a Brownfield Cleanup Agreement ("BCA") as a Volunteer on May 29th, 2019. An Application to Amend Brownfield Cleanup Agreement and Amendment dated March 14, 2023 was submitted to the NYSDEC advising that the Site was transferred from ACM to Tonawanda Storage Properties LLC ("TSP"), and requested that TSP be added onto the BCA, while the present party ACM remained on the BCA. Per Section IV, Item 12 of the BCA amendment application, TSP applied as a Volunteer.

The Site consists of two tax parcels located at 2266 and 2268 Military Road in Tonawanda, Erie County, New York ("Site"). Erie County lists the two tax parcels as: tax parcel 52.12-6-16.1 with the address of 2268 Military Road covering approximately 0.31 of an acre; and tax parcel 52.12-6-16.2 listed as 2266 Military Road covering approximately 0.50 of an acre. The combined parcels total 0.81 of an acre and are currently zoned as vacant commercial and manufacturing properties.

This report has been prepared on behalf of TSP to describe and present the findings of both the Remedial Investigation ("RI") and Supplemental Investigation ("SRI"), and to provide sufficient information to establish remedial action objectives, evaluate remedial alternatives, select a Site remedy, and to support preparation of a Qualitative Human Health Exposure Assessment ("QHHEA").

2.0 BACKGROUND

2.1 Property Location

The Site is located on the west side of Military Road, approximately 0.25 of a mile north of the intersection of Military Road and Interstate 290 (Figure 1). The land use surrounding the Site includes an 84 Lumber building to the north, a railroad corridor located west, and a commercial storage space facility located south of the Site. East of Military Road the land use includes retail shops, commercial properties, and residential properties. The nearest residential property is approximately 0.04 of a mile to the east of the Site. Figure 1 provides the location of the Site.

2.2 Site Description

The Site is currently actively used as a commercial storage property with approximately 8,843 sq. ft. of building space that formerly was the location of the Bisonite Paint Company ("Bisonite"). The former Bisonite building ("building") is currently used as storage space by multiple tenants for the storage of equipment, materials, products, etc. Currently a portion of the building is vacant. It is planned that the space will be rented for storage or light industrial uses. The portion of the building within the Site shares a wall, floor, roof, and foundation/slab with the remaining building that extends to the south (off-Site). The building has concrete block walls and a flat roof.

The on-Site portion of the building is used primarily for storage of contractor tools, equipment, and materials storage (wood, piping, equipment, products, materials, etc.). The remaining portion of the building is vacant and was most recently used by a fire sprinkler construction firm that used the space for material storage and offices. This portion of the building has open storage areas including an area divided into individual office spaces with wood farming, plasterboard walls and composite wood paneling. The office space has drop ceilings. The floor to ceiling height is approximately eight feet. The vacant space once had a gas-fired forced air heating system, but this system is no longer functioning. The approximate layout and current occupied tenant spaces of the former Bisonite building are shown in Appendix E.

Approximately 25 percent of the Site property is covered with building space. The remainder of the Site is used for parking and a driveway for the tenants. The attached Figure 2 is an aerial photograph of the Site and the surrounding properties. The adjacent off-Site building space is used by two tenants; one uses the space as a book warehouse and the other stores lawn maintenance equipment. The building spaces in a separate building immediately off-Site to the south are used by approximately 10 tenants using small 8 feet by 10 feet rental spaces. One tenant occupying the western-most part of the building uses the space to store gasoline powered equipment, trailer(s) and supplies. These spaces are unheated with only a portion of the building having electrical service.

2.3 Site History

2.3.1 Site and Area Use History

Historically, the Site was a portion of the former Bisonite Paint Company property which operated from 1947 to 1991. Bisonite was formerly located on four property parcels, two of which now form the subject Site. Bisonite formerly manufactured water-based and oil-based paints on the property. Wastewater from the paint manufacturing plant was believed to have flowed in an open trench to a settling lagoon at the west end of the Site.

In addition to the existing former Bisonite building on the Site, and the settling lagoon, Bisonite operated a tank farm and landspreading area now off-Site to the south. Remediation of the tank farm and landspreading area was conducted in 1996 by 2251 Military Road Associates, Inc. under the previous New York State Brownfield Program, the Voluntary Cleanup Program ("VCP").

Based on a review of aerial imagery, the area surrounding the Site has changed significantly since the 1950's. Commercial development currently exists east of the Site along the east side of Military Road, including a Kwik Fill service station and an office/warehouse building. A residential neighborhood exists east of the service station and office/warehouse building. North of the Site and adjacent to the railroad, the land is used for commercial/industrial purposes. A railroad corridor and the Tonawanda Municipal Landfill and a solar array are located west of the Site.

2.3.2 Site Regulatory History

In 1978 NYSDEC notified Bisonite to cease landspreading operations and begin hauling the waste to an approved disposal facility. The operation of the settling lagoon ("lagoon") was terminated in 1978. Over the following four years, the lagoon was decommissioned and capped; however, it is unknown if the lagoon was dredged and the waste removed. During an NYSDEC Investigation in 1985, it was noted that the lagoon was not properly covered, and leachate was observed in small, ponded areas at the surface. Also observed was a small 3-feet by 7-feet area of

stained ground on the side of the former lagoon sloping west toward the railroad tracks. It is unknown whether an engineered cap was placed over the lagoon.

In July and December 1990, a Preliminary Site Assessment ("PSA") was conducted by TAMS Consultants and Dunn Engineering Company ("TAMS") for NYSDEC. No evidence of leachate from the former lagoon was found during the PSA inspections. However, several tanks were observed along with stressed vegetation adjacent to the former drum storage pad/resin building. While conducting the PSA in April 1991, an aerial photograph of the property from 1972 was discovered. The photograph displayed poor housekeeping practices at Bisonite, and this resulted in an inspection by NYSDEC's Hazardous Waste Division. During the RCRA inspection, waste containers with organic chemicals characterized as hazardous wastes were found. An Order on Consent was issued to Bisonite in December of 1991 requiring the company to remove the wastes, debris, and obvious contaminated surficial material. Treatment of groundwater was not addressed.

The PSA field investigation conducted in 1993 included the collection of soil, waste, and groundwater samples. The investigation was focused on areas of the Site and adjacent off-Site areas to determine if surface and subsurface contamination was present and whether it posed a threat to public health and the environment. The soils were found to be contaminated with PCBs, mercury, volatile organic compounds ("VOCs") and metals. PCBs were detected in the lagoon sediments but not at levels exceeding the 6 NYCRR Part 375 soil cleanup objectives ("SCO"). VOCs, specifically acetone, ethylbenzene, methylene chloride, toluene and total xylenes were also found to exceed the SCOs. The metals antimony, barium, chromium, lead and mercury were found to exceed the SCO. The groundwater was found to be relatively unaffected. As a result, NYSDEC classified the Site as a Class 3 Inactive Hazardous Waste Disposal Site registry. See Figure 3 for the locations sampled in 1993.

In 1996, 2251 Military Road Associates, Inc. ("MRA") submitted a Remedial Action Work Plan ("RAWP") to excavate the contaminated soil from the former landspreading area and tank farm to delist those portions of the property and redevelop the property for commercial/industrial purposes. Subsequent to this submission, MRA signed an Order on Consent with NYSDEC (Index #B9-0389-91). The RAWP was approved and implemented in October 1996. The removal was conducted over one day, and the confirmatory samples indicated the soil quality was consistent with the target soil cleanup goals for chromium and lead. No information is available to determine if other parameters were analyzed. MRA began remediating the adjacent tank farm and it was completed in a single day. However, MRA did not sample the soil in the tank farm to confirm if the cleanup goals were achieved. MRA instead measured the soil contaminant levels using a portable organic vapor analyzer. NYSDEC inspected the excavation and confirmed that the remediation of the tank farm was complete.

On April 20, 2017, NYSDEC reported a spill at the property (Spill No. 1700755) for a release of petroleum from improperly stored drums located off-Site (to the south). The lid on a drum was not properly sealed and rainwater displaced the liquid in the drum spilling it onto the ground surface. The impacted soil was removed and disposed in a permitted landfill. The operator of the property was also cited for dumping solid waste (tires, plant and tree debris and municipal solid waste) on the Site. NYSDEC closed the Spill file on July 13, 2017.

2.4 Previous Environmental Investigations and Reports

In March 1993 (note that the report date is not consistent with dates in the report) an NYSDEC contractor TAMS prepared a PSA Report on historical information obtained from various NYSDEC and municipal inspections, field inspections, investigation findings and sampling conducted between July 1990 and October 1993. The PSA Report determined that VOCs, semi-volatile organic compounds ("SVOCs") and PCBs exceeded residential SCOs, and metals exceeded background metal concentrations in the soil. Groundwater did not appear to have been impacted. NYSDEC concluded that hazardous waste as defined in 6 NYCRR Part 371 was present, but it did not appear to be a significant threat to public health or the environment as defined in 6 NYCRR Part 375.

In 1996, MRA submitted a RAWP to excavate the contaminated soils from the former landspreading area and tank farm to delist those portions of the property and redevelop the property for commercial/industrial purposes. After the RAWP submission, MRA executed an Order on Consent with NYSDEC (Index #B9-0389-91). NYSDEC approved and required the implementation of the RAWP in October of 1996. During the implementation of the RAWP, MRA did not sample the soil in the tank farm to confirm if the cleanup goals were achieved. MRA instead measured the soil contaminant levels using a portable organic vapor analyzer. NYSDEC inspected the excavation and confirmed the remediation of the tank farm was complete. Baron & Associates, P.C. prepared a Removal Action Implementation Report in December 1996 for the project.

In December 2008, NYSDEC prepared a Site Evaluation Report ("SER") for the Bisonite Site No. 915010. The SER was a review of the past regulatory activities and investigations of Bisonite focusing on an evaluation of the data associated with the former settling lagoon area. The SER indicated that as a result of sampling during the PSA, a determination could not be made that the lagoon waste was a characteristic hazardous waste since samples did not exceed TCLP levels. However, NYSDEC determined that the settling lagoon contained a listed hazardous waste based on the significant total concentrations of individual VOCs; the presence of Toluene and Xylene in the soil samples and in waste drums; the reported spills and leaks; and the discovery of raw product in an open trench drain connecting the manufacturing building to the settling lagoon. Elevated levels of Barium, Chromium, Lead and Mercury were found in the settling lagoon waste samples. Groundwater samples from monitoring wells indicated elevated levels of Antimony, Iron, Magnesium Manganese and Sodium, but the positions of the monitoring wells were not hydraulically down gradient of the lagoon area. The recommendations of the SER included: maintaining the Site as a Class 3 IHWDS; conduct additional assessment to characterize settling lagoon waste; install monitoring wells; and sample the groundwater to determine shallow groundwater quality down gradient of the lagoon.

As previously mentioned, on April 20, 2017, during an inspection of the property, NYSDEC discovered two drums of petroleum behind an off-Site storage building on the Niagara Mohawk Power Corporation property near the west side of the Site. On May 1, 2017, Leader met with NYSDEC at the Site and subsequently conducted a removal of the contaminated soil, cleanup of the adjacent concrete pad and off-Site disposal of the waste materials and drums. The verification samples collected after the soil removal indicated in one soil sample the concentration of Indeno (1,2,3-cd) pyrene slightly exceeded the NYSDEC CP-51 Soil Cleanup Policy soil cleanup objective ("SCO"). Leader prepared a Closure Report dated July 10, 2017, and NYSDEC determined that no further action was necessary and closed the Spill file on July 13, 2017.

On June 22, 2017, NYSDEC, Groundwater and Environmental Services, Inc. and Applus RTD prepared a report of a geophysical study conducted of the former settling lagoon on the Site. The study indicated several anomalies that are within the suspected lagoon area, but there was no evidence of a trench drain from the former manufacturing building to the lagoon.

Figure 4 shows the suspected lagoon anomalies and other sampling locations used by NYSDEC to evaluate the Site. Tables 1 and 2 provide a summary of the soil and groundwater sample analysis results.

3.0 SCOPE OF WORK

3.1 Site Investigation

The goal of the RI was to characterize the nature and extent of historic contamination on the Site. To achieve this goal, a multiple-level investigation was recommended, including: characterize the Site's geology and hydrology; determine the nature of the chemical contaminants found on the Site; determine the extent of contamination of the chemical contaminants originating from the Site, and; evaluate the current conditions and any impacts to the environment and human health.

The environmental media sampled at the Site during the field investigation included surface and subsurface soils, sediments, groundwater, and soil vapor. Since there is no direct path to surface water or a municipal storm water conveyance, additional surface soil samples were collected at the limits of the pavement on the Site where storm water might run-off or run-on to the property. The RI Work Plan for the Site was approved on November 6, 2019.

Following the December 2019 through January 2020 RI activities, the NYSDEC requested that a Supplemental Remedial Investigation ("SRI") be conducted along the northern and western Site boundary to further evaluate potential contaminant exposures of the users of the north adjacent warehouse and office space occupied by 84 Lumber. The NYSDEC also requested further evaluation of indoor air and sub-slab conditions within a portion of the warehouse building south of the BCP boundary. The objective of the SRI was to determine the potential for soil vapor intrusion in the off-Site portion of the building and gain a better understanding of off-Site indoor air conditions as it relates to the New York State Department of Health ("NYSDOH") Guidance for Evaluating Soil Vapor Intrusion in New York State (2006), with updates ("SVI Guidance"). The work was conducted in accordance with the SRI Work Plan – Field Sampling ("SWP") approved by the NYSDEC and NYSDOH on March 1, 2021. The results of the SRI are discussed in Section 4.2.2 and Section 4.2.6. A copy of the SRI Report is provided in Appendix D.

3.2 Deviations from the RI Work Plan

There were five instances where Leader deviated from the RI Work Plan:

- Due to scheduling conflicts, the field work was conducted in three phases: installation of soil borings; monitoring well installation; and conducting the groundwater sampling/soil vapor sampling. Originally, the soil borings and monitoring wells were proposed to be completed during one field event.
- One soil boring/monitoring well was originally planned for the east side of the Site building, but due to the discovery of paint residues Leader proposed moving the soil boring/monitoring well to the north side of the Site adjacent to the suspected disposal lagoon.

- During the sampling of the soil vapor probes, groundwater was drawn into one of the canisters (sample SV-2 located on the north side of the Site building) and the sampling was halted. A similar scenario occurred at the other sampling location (SV-1), so the location was moved to another portion of the suspected lagoon where groundwater was not an issue. The sampling of the indoor sub-slab and indoor air locations were not impacted, but the building's heating system was not operational. Leader contacted NYSDEC, and it was agreed that the sampling could continue without the heating of the building, but additional evaluation may be required in the future.
- During the sampling of the monitoring wells, all the monitoring wells were purged to a point where the sampling was delayed until enough groundwater recharged the monitoring wells. Monitoring wells MW-1 (west side of the Site) and monitoring well MW-5 (off-Site in the southeast corner of the property) did not recharge completely and sampling was extended to the following day. Monitoring well MW-5 was sampled successfully, but the sampling of monitoring well MW-1 could not be completed. SVOCs, pesticides and herbicides could not be sampled from monitoring well MW-1.
- A Community Air Monitoring Plan ("CAMP") was not implemented during the RI activities. All soil samples were collected from paved surfaces using push probe sampling techniques and the recovered soils were collected from the subsurface and contained within clear acetate liners inserted in the stainless-steel macro-core sampler. As such, fugitive dust was not generated during this activity. In addition, all RI activities were conducted on paved surfaces, so there were no soil disturbances created by the movement of the Geoprobe. However, periodic monitoring for VOCs utilizing a photoionization detector ("PID") was implemented throughout RI activities.

4.0 FINDINGS

4.1 Geology

Soil borings were advanced to investigate the Site's subsurface and soil boring logs and a typical monitoring well construction log prepared from these explorations are provided in Appendix B. Note that the construction of MW-1, MW-2, MW-3, and MW-4 were all the same; therefore, only a single log was prepared and labeled as "Well No. MW-1 to MW-4" and included as Appendix B of the SRI. The soil borings were positioned to further define the findings of NYSDEC's geophysical survey conducted in2017, which showed several anomalies. Figure 5 shows the location of the RI and SRI surface soil samples, soil borings, soil vapor, monitoring wells and co-located sub-slab/indoor air sampling locations. Figure 6 shows the location of the Soil Borings with an overlay of the geophysical data.

Eleven soil borings were completed at the Site. The final depth of the borings ranged from 10-feet to 20-feet below the ground surface ("bgs"). Soil samples for analytical sample collection or determining the Site's geology were collected continuously from the ground surface to the terminating depth.

The soil samples indicated a layer of fill across (west to east) the Site, between SB-8 and SB-1 ranging in total thickness from 8-feet (SB-5) to 16-feet (SB-2). In a north to south direction fill was found from 10-feet (SB-4) to 16-feet (SB-2). The soils and material included a mixture of sand, clay, metal scrap and concrete. In several soil boring locations paint residuals: SB-2, SB-3 and SB-7 were encountered. Below the fill the native soil consisted of stiff clay, silty clay, and clayey gravel. These findings appear to confirm the geophysical findings.

In many of the soil borings a water-saturated unit was found, only wet or moist intervals. The first observation of water ranged in depth from 4-feet (SB-6) to 17-feet (SB-1). This is consistent with NYSDEC's expectation for the Site, instead of having a flowing groundwater zone, the Site has a vertical seepage face across the clay layer. In the soil boring locations where fill or waste materials (e.g., paint residue) were encountered, the materials were suspected of not having the density of the silty clay/clay, thus having a higher permeability and hydraulic transmissivity.

Where streaks of solidified paint or paint-like staining were encountered, PID detections ranging from 328.0 ppm at the four-feet interval of SB-2 to PID levels exceeding 800 ppm at the four-feet interval of SB-7 was reported. No appreciable odors were evident in the soils containing evidence of paint, but this may have been attributed to the near freezing temperatures while conducting the RI activities. PID levels were not attained from soils lacking visual evidence of paint or paint staining. Organic vapor levels in the ambient air as monitored by the PID were not identified during the RI activities.

At locations where monitoring wells were installed, the wells could be purged to dryness. Because of these conditions, the water quality found on-Site may not be representative of areas beyond the Site.

Once monitoring wells were installed and developed, the static water was measured between 0.5 to approximately 3.5-feet bgs on-Site. Monitoring well MW-5 located off the Site had a water level of approximately 3.1-feet bgs. Table 3 provides the groundwater elevations, geochemical parameters, and physical measurements of each monitoring well. Figure 7 shows Leader's interpretation of the contours of the water surface. Monitoring well MW-5 was not used to contour the groundwater surface since it is not on the Site and the distance between on-Site data points and MW-5 is not close enough to be used for contouring. Also, given the suspected intervening natural clay and clay-like soils and the possibility of underground utilities with enhanced permeability zones in their bedding may not yield a true picture of the water flow across the property.

MW-1 presented slightly different conditions compared to the on-Site monitoring wells. MW-1 was placed approximately 6-10 feet away from the asphalt parking lot as planned, but it was discovered with the Site survey this location is also off-Site: The installation of the monitoring well hit an obstruction of bedrock or boulder caused refusal and the boring could not be advanced beyond 12-feet compared to the other monitoring wells placed at a depth of 15-feet. The water elevation in MW-1 is approximately 1.5 to 2-feet lower than the water surface found in the other monitoring wells. The steepness of the hydraulic gradient between MW-1 and MW-2 and MW-4 supports the seepage face interpretation of the hydraulic flow conditions.

In addition to the water levels observed in the monitoring wells, see Table 3, the Site also has a very shallow perched water table. During the sampling of the soil vapor points, which extended to a depth of 4-feet bgs, groundwater was found almost immediately below the asphalt surface. Sample SV-1 was abandoned, and a new location was selected where the boring was advanced to 4-feet bgs, and the borehole was filled with sand with the intake for the canister placed approximately 1-foot bgs and below a seal. At sample location SV-2 the opposite was found but the result was similar. The intake was installed as planned; however, on the day of the sampling once the vacuum was applied water was drawn into the sample canister. Although the static water level and the approximate level of the perched water appear to be similar, the connection between the two has not been tested.

The seepage face hydraulic conditions are also supported by the ability to purge the monitoring wells to dryness when using the low flow sampling protocols. The connection between the perched water level and the water table implied by the monitoring wells water levels has not been tested, but across the Site there may be some connection other than what might be assumed, (i.e., expected recharge of the lower water zones from the surface). The conceptual model of the Site conditions will also have to include the possibility of water being contributed from more permeable zones found within fill and waste materials. Sample analysis has shown even these waste/fill zones have a limited ability to provide water.

4.2 Sample Results

Sample analysis results are presented on Tables 4 to Table 9 with comparisons to applicable regulatory guidelines. Laboratory packages of the data are provided as Appendix C.

4.2.1 Surface Soil Samples

Figure 8 shows the locations where the surface soil ("SS") samples were collected from 0 to 2-inches. Four samples were collected around the (west and north sides) perimeter of the Site's asphalt driveway and parking lots where there is exposed soil. On the west side of the Site the property line is the approximately the edge of pavement.

The SS samples were analyzed for SVOCs, pesticides and herbicides, PCBs, Target Analyte List ("TAL") metals, mercury, and cyanide. The sample analysis results are shown on Table 4.

As Table 4 indicates, the samples contained PCBs, pesticides, metals, mercury and SVOCs exceeding the Part 375 Unrestricted Use Soil Cleanup Objectives ("USCOs").

PCBs (Total) were found in all 4 samples ranging from 0.072 mg/Kg in SS-2 to 0.317 mg/Kg in SS-1. The USCO is 0.1 mg/Kg, and this was exceeded in one sample (SS-1). The Part 375 Restricted-Commercial SCO ("CSCO") is 1 mg/Kg.

4,4-DDD was found in 3 out of 4 samples ranging from 0.011 to 0.021 mg/Kg. The USCO is 0.0033 mg/Kg and the only sample not exceeding the USCO was sample SS-2. The CSCO is 92 mg/Kg.

4,4-DDE was found in 1 sample at a concentration of 0.019 mg/Kg at location SS-1. The USCO is 0.0033 mg/Kg. The CSCO is 62 mg/Kg.

4,4-DDT was found in SS-1 at 0.028 mg/Kg and SS-2 at 0.024 mg/Kg. The USCO is 0.0033 mg/Kg, and the exceedances were found in samples SS-1 and SS-2. The CSCO is 47 mg/Kg.

Endrin was found in 3 out of 4 samples at concentrations of 0.021 to 0.058 mg/Kg The only sample not exceeding the USCO of 0.014 mg/Kg was sample SS-2. The CSCO is 89 mg/Kg.

Lead was found in all four samples at concentrations ranging from 51.5 in to 199 mg/Kg. The USCO was exceeded in samples from locations SS-1, SS-3, and SS-4. None of the samples exceeded the CSCO of 1,000 mg/Kg.

Zinc was found in all 4 samples at concentrations ranging from 176 mg/Kg to 226 mg/Kg. The USCO is 109 mg/Kg. The CSCO is 10,000 mg/Kg.

Mercury was found in all 4 samples at concentrations of 0.089 to 0.782 mg/Kg and was only detected in two samples above the USCO of 0.18 mg/Kg. The CSCO is 2.8 mg/Kg.

Seven SVOC compounds in the form of polycyclic aromatic hydrocarbons ("PAHs") were found in all four surface soil samples. These compounds included benzo(a)anthracene, benzo(k)fluoranthene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene. Five of these seven compounds (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, and indeno[1,2,3-cd]pyrene) were found at concentrations above their respective CSCO at all four sample locations; chrysene was reported at only one location above its CSCO, and benzo(k)fluoranthene was not reported above its CSCO value. The highest relative concentration of SVOCs were reported at the location of SS-3.

Tentatively Identified SVOCs

Tentatively identified compounds ("TICs") were found in all four samples. The concentrations ranged from 52.5 mg/Kg to 611.1 mg/Kg. The compounds identified were related to SVOC compounds.

4.2.2 Supplemental Remedial Investigation – Surface Soil

Following the RI activities, the NYSDEC requested that Leader conduct Supplemental Remedial Investigation ("SRI") along the northern and western Site boundary to further evaluate potential contaminant exposures of the users of the north adjacent warehouse and office space occupied by 84 Lumber. The work was conducted in accordance with the SRI Work Plan – Field Sampling ("SWP") approved by the NYSDEC and NYSDOH on March 1, 2021

Ten surface soil samples were collected during the SRI. Samples ending in "A" (e.g., SSA) were collected on the Site's property line. Samples ending in "B" were collected off-Site. Figure 8 shows the locations of the samples. Discrete samples were collected at each location from the following intervals: 0 to 2-inches; 2 to 6-inches; 6 to 12-inches and 12 to 24-inches. PID monitoring was conducted prior to the sampling at each location and at each sample interval. The PID monitoring indicated that no measurable VOCs were detected by the instrument at any of the sample locations. The soil encountered consisted of fill in the upper 6 to 18 inches of the soil with asphalt, glass, gravel, and silt/sand. Below the fill layer the soil consisted of clay-like soil, except for sample location SS2-B where silty sand was observed to a depth of 24-inches bgs.

Each soil sample was analyzed for PAHs and compared to CSCO values. The soil sample analysis results indicated PAH contamination exceeding the CSCOs was found along the property line, but the highest concentrations are along the north side of the Site. This is consistent with the RI findings where sample locations SS-3 and SS-4 were found to have the highest concentrations. Although the SWP findings indicate that the soil samples contain concentrations above the CSCO, the level of impact decreased below the 12-inch depth. The PAH exceedances in the shallow soil sample intervals is likely due to the observed prevalence of bituminous asphalt shards mixed in the soils rather than the result of past operations at the Bisonite facility.

A copy of the SRI Report, including the analytical package, and table of analytical exceedances is provided in Appendix A.

4.2.3 Subsurface Soil Samples

Figure 9 shows the location where the subsurface soil samples were collected. Table 5 provides the sample analysis results compared to NYCRR Part 375 URSOCs, CSCOs and SCOs for the protection of groundwater. Table 6 shows the soil sample analysis results for the NYS emerging contaminants list ("ECL") and 1,4-Dioxane.

All of the samples were collected from soil borings using a protocol developed for the RI Work Plan. In general, this protocol included the following: presence of waste material; soil/fill having odors or off-gassing measured with a portable organic vapor analyzer ("OVA"); fill; or in the absence of these factors a representative sample was collected from native unsaturated soil and saturated soil.

Subsurface soil samples were analyzed for organics, inorganics and TAL metals, VOCs, and selected samples from fill were analyzed for ECL and 1,4-Dioxane. Soil boring samples analyzed for ECL and 1,4-Dioxane. Twenty-eight samples were analyzed for organics, inorganics and metals. Three soil samples were analyzed for ECL and 1,4-Dioxane.

Organic compounds in the subsurface soil samples exceeding the USCO included:

VOCs

Acetone exceeded the USCO of 0.05 mg/Kg, ranging from 0.06 mg/Kg in sample SB-1 at the sample interval 1 to 2-feet to 0.68D (the qualifier D indicates the sample was diluted) at sample location SB-4 (1 to 2-ft.). Acetone exceeded the USCO in 10 samples. None of the samples were found to exceed the CSCO of 500 mg/Kg.

Ethylbenzene exceeded the USCO of 1 mg/Kg, ranging from 40 mg/Kg in sample SB-2 (15 to 17-ft.) to 790 mg/Kg at sample location SB-2 (4 to 6-ft.). Ethylbenzene exceeded the USCO in 5 samples. Three samples were found to exceed the CSCO of 390 mg/Kg.

Toluene exceeded the USCO of 0.7 mg/Kg, ranging from 89 mg/Kg in sample SB-3 (4 to 6-ft.) to 12,000 mg/Kg at sample location SB-2 (4 to 6-ft.). Toluene exceeded the USCO in 5 samples. Three of these samples also exceeded the CSCO of 500 mg/Kg.

Benzene exceeded the USCO of 0.06 mg/Kg in SB-2 at 0.16 mg/Kg (1 to 2 ft.), 15.0 mg/Kg (4 to 6 ft) and 0.70 mg/Kg (15 to 17 ft). SB-7 also exceeded the USCO of 0.06 mg/Kg at 7.1 mg/Kg (4 to 5 ft) and 19.0 mg/Kg (6 to 8 ft.). Concentrations found at SB-2 and SB-7 were below the CSCO of 44 mg/Kg.

Vinyl Chloride was found in the sample from SB-4 (16-18-ft.) at a concentration of 0.091 mg/Kg which is above the USCO of 0.02 mg/Kg. This sample did not exceed the CSCO of 13 mg/Kg. SB-11 also had detections of Vinyl Chloride of 0.00037 mg/Kg (1 to 2 ft.) below the USCO.

Tentatively Identified VOCs

TICs were found in 22 of the 28 samples collected. Although many were identified as unknown, the most frequently found compounds were identified as being benzene compounds, cyclohexane compounds and hydrocarbon related; octane, pentane, and decane compounds. The estimated concentrations ranged from 0.0056 mg/Kg to 11,760 mg/kg in the sample from SB-7 at 4 to 5-feet.

SVOCs

SVOCs exceeded the USCO in one sample, SB-3 (4 to 6-ft.). Benzo(a)anthracene was found at a concentration of 5.1D mg/Kg; Benzo(b)fluoranthene was found at a concentration of 4.4D mg/Kg; Benzo(k)fluoranthene was found at a concentration of 1.9 mg/Kg; Chrysene was found at a concentration of 4.3D mg/Kg; Dibenz(a,h,)anthracene was found at a concentration of 0.64 mg/Kg, Dibenzofuran was found at a concentration of 7.2D mg/Kg; and Indeno(1,2,3-cd)pyrene was found at a concentration of 2.3 mg/Kg.

In the sample from SB-3 Dibenz(a,h)anthracene exceeded the CSCO of 0.56 mg/Kg at a concentration of 0.64 mg/Kg (4 to 6 ft). Benzo(a)pyrene was also detected in SB-3 at a concentration of 3.8 mg/Kg (4 to 6 ft.). The CSCO for Benzo(a)pyrene is 1.0 mg/Kg.

Tentatively Identified SVOCs

TICS were identified in all 28 samples with concentrations ranging from 1.1 mg/Kg to 204.3 mg/kg in SB-2 at 4 to 6-feet. Phenolic compounds, unknown hydrocarbons, and PAH related compounds were the most common compounds found.

PCBs

PCBs exceeded the USCO of 0.1 mg/Kg at seven locations, with 12 samples ranging from 0.284 mg/Kg at sample location SB-5 (3 to 5-ft.) to 24.9 mg/Kg at sample location SB-3 (1 to 2-ft.). The CSCO of 1 mg/Kg was exceeded at four locations, with six samples ranging from 1.82 mg/Kg at sample location SB-5 (7 to 8-ft.) to 24.9 mg/Kg at sample location SB-3 (1 to 2-ft.).

Pesticides and Herbicides

4,4-DDE exceeded the USCO of 0.0033 mg/Kg in six samples. The results ranged from 0.01J mg/Kg at sample location SB-2 (15 to 17-ft) to 0.053 mg/Kg at sample location SB-7 (4 to 5-ft.). None of the samples exceeded the CSCO of 62 mg/Kg.

4,4-DDT at sample location SB-2 (4 to 6-ft.) at a concentration of 0.019 mg/Kg. exceeded the USCO of 0.0033 mg/Kg. None of the samples exceeded the CSCO of 47 mg/Kg.

Dieldrin was found at three sample locations and exceeding the USCO of 0.005 mg/Kg. in four sample locations. At sample location SB-2, the USCO; was excluded in two samples; sample SB-2 at 1 to 2-ft. at a concentration of 0.013 mg/Kg and sample SB-2 at interval 4 to 6-ft. at a concentration of 0.0058J mg/Kg. Dieldrin was also found at sample location SB-7 (4 to 5-ft.) at a concentration of 0.012 mg/Kg and location SB-3 (4 to 6-ft.) at a concentration of 0.024 mg/Kg. None of these samples exceeded the CSCO of 1.4 mg/Kg.

Heptachlor was found at one sample location, SB-3, and two samples at concentrations greater than the USCO of 0.042 mg/Kg; sample interval 1 to 2-ft. at a concentration of 0.047 mg/Kg and 4 to 6-ft. at a concentration of 0.14 mg/Kg.

Inorganics

Mercury was found in 7 samples at three locations, at concentrations exceeding the USCO of 0.18 mg/Kg. The results ranged from 0.421 mg/Kg. at sample location SB-6 (6 to 8-ft.) to 3.11 mg/Kg at sample SB-7. The CSCO (2.8 mg/Kg) was exceeded only at sample location SB-7 (4 to 5-ft.). At the 6 to 8-ft. sample interval the concentration of Mercury dropped to 0.564 mg/Kg, is below the CSCO.

Metals

Lead was found in five samples at concentrations exceeding the USCO of 63 mg/Kg. The exceedances ranged from 86.9 mg/Kg at sample location SB-6 (3 to 4-ft.) to 243 mg/Kg at sample location SB-7 (4 to 5-ft.). None of the samples were found to exceed the CSCO of 1,000 mg/Kg.

Zinc was found in six samples at concentration exceeding the USCO of 109 mg/Kg. The exceedances ranged from 125 mg/Kg at sample location SB-7 (6 to 8-ft.) to sample location SB-3 (1 to 2-ft.) at a concentration of 498 mg/Kg. None of the samples exceeded the CSCO of 10,000 mg/Kg.

ECL and 1,4-Dioxane

The samples analyzed for ECL and 1,4-Dioxane includes sample locations from SB-3 (10 to 12-ft.), SB-8 (1 to 2-ft.), and SB-9 (2 to 4-ft.). The sample from SB-8 was the only sample to identify an ECL (PFOA/PFC) compound. Perfluorooctanoic acid was found at a concentration of 0.14 J nanograms per gram ("ng/g"). 1,4-Dioxane was not identified in any sample.

4.2.4 Groundwater Samples

Figure 10 shows the locations of the monitoring wells and Table 7 shows the results compared to the 6 NYCRR Parts 703.5 and 703.6, Technical and Operational Guidance Series, 1.1.1 Ambient Water Quality Standards and Guidance Levels ("TOGS"). All samples apart from the sample from MW-1 were analyzed for TCL VOCs, SVOCs, pesticides and herbicides, PCBs, TAL metals, cyanide and mercury. Samples from MW-2 and MW-3 were also analyzed for ECL and 1,4-Dioxane and those results are shown on Table 8. The sample from MW-1 was analyzed for TCL VOCs, PCBs, TAL metals, mercury, and cyanide, because the monitoring well did not yield enough water over the course of approximately 24 hours. MW-5 did not initially provide enough volume of water for all of the analysis during the initial sampling event however a sufficient volume of water was obtained when the Site was revisited the following morning.

During the purging and sampling events, a potential free product layer, less than one-inch in thickness was found to be on the water surface within monitoring well MW-4. The free product was analyzed for the complete list of compounds. During the sampling the water within the monitoring well appeared to have an amber color, with the free product a slightly dark shade and an oily texture. Turbidity, temperature, pH, conductivity, dissolved oxygen, and ORP were not measured in MW-4 to prevent potential fouling of the instrument sensors. A peak PID reading of 460.0 ppm was reported in the annular space of the well head. As the results show for many of the compounds identified, the free product sample (MW4FP) had lower concentrations than in the water sample except for Chloroform, Ethylbenzene, and m&p Xylene. Available field notes from the January 2020 sampling event are included as Appendix F.

VOCs

2-Butanone (a.k.a. MEK) exceeded the TOGS groundwater quality criteria of 50.0 µg/L in three samples: MW-4 at a concentration of 850,000D µg/L; free product sample MW4FP at a concentration of 590,000D µg/L; and MW-3 at a concentration of 52,000D µg/L.

Acetone was found to exceed the TOGS groundwater quality criteria of 50 µg/L in three samples: MW-4 at a concentration of 15,000 µg/L; sample MW4FP at a concentration of 10,000 µg/L; and MW-3 at a concentration of 1,100J µg/L.

Chloroform exceeded the TOGS groundwater quality criteria of 7.0 µg/L in three samples: MW-4 at a concentration of 380J µg/L; sample MW4FP at a concentration of 980 µg/L; and MW-3 at a concentration of 180J µg/L.

Ethylbenzene was found to exceed the TOGS groundwater quality criteria of 5.0 µg/L in three samples: MW-4 at a concentration of 1,800 µg/L; sample MW4FP at a concentration of 2,000 µg/L; and MW-3 at a concentration of 860 µg/L.

Toluene was found to exceed the TOGS groundwater quality criteria of 5.0 µg/L in three samples: MW-4 at a concentration of 45,000 µg/L; sample MW4FP at a concentration of 25,000 µg/L; and MW-3 at a concentration of 15,000 µg/L.

Total Xylene was found to exceed the TOGS groundwater quality criteria of 5.0 µg/L in three samples: MW-4 at a concentration of 8,800 µg/L; sample MW4FP at a concentration of 8,900 µg/L; and MW-3 at a concentration of 4,190 µg/L.

Trichloroethene ("TCE") and cis 1,2-Dichloroethene were both found in the sample from MW-2 at concentrations which exceeded the TOGS groundwater quality criteria of 5 µg/L. TCE was found at a concentration of 8.1 µg/L and Cis was found at a concentration of 13.0 µg/L. These same contaminants were below TOGS values in the duplicate sample of MW-2.

Benzene was detected in the sample from MW-3 at 68J µg/L, which exceeds the TOGS groundwater criteria of 5 µg/L.

Bromodichloromethane was detected in the sample from MW4FP at a concentration of 260J µg/L, which exceeded the TOGS groundwater criteria of 50 µg/L.

Tentatively Identified VOCs

No TIC VOCs were identified in any of the samples.

SVOCs

During the monitoring well sampling, a SVOC sample was not collected from the MW-1 due to a lack of sufficient recharge in the well to collect the necessary volume of water for the sample analysis. Naphthalene, Bis(2-ethyl hexyl) Phthalate, and Total Phenol were the only SVOCs found to exceed the TOGS water quality criteria from the remaining wells. Naphthalene was found in sample MW-4 and MW-3. In sample MW-4 at a concentration of 11J µg/L was found, and in the sample MW-3 a concentration of 20 µg/L was found. Phenolic compounds were found in samples from MW-3, MW-4 and MW-5 at a concentration of 20.0 µg/L, 350 µg/L, and 65 µg/L, respectively. The TOGS groundwater quality criteria is 1 µg/L.

Tentatively Identified SVOCs

TIC SVOCs were found in all the groundwater samples except for MW-2. In MW-4 a concentration of 9,630 µg/L of SVOCs was found which was the highest concentration followed by MW-4 at 5,440 µg/L of TIC SVOCs. These samples also contained the highest concentration of organic compounds.

Metals

Most metals detected at concentrations above TOGS groundwater quality criteria were primarily limited to naturally occurring metals, including Iron, Magnesium, Manganese and Sodium. The elevated detections are reasonably attributed to turbidity in the groundwater sample. Filtering of the groundwater samples will be conducted during future groundwater events.

Apart from the Iron, Magnesium, Manganese and Sodium exceedances, a Mercury concentration of 0.49 µg/L was found at MW-1, which is slightly above the TOGS groundwater quality criteria of 0.40 µg/L. Antimony at 6.0J µg/L and Lead at 41J µg/L was found in MW-3, which exceeds the TOGS groundwater quality criteria of 3.0 µg/L and 25 µg/L respectively.

MW-4 and MW-4 FP initially consisted of one sample. Once collected, the free product was extracted from the sample container into a container dedicated for the analysis of the FP, creating two discrete samples for analysis.

The following metals were found in the FP sample of MW-4 at concentrations which exceeded the TOGS water quality criteria:

Antimony, 95 µg/L/TOGS 3.0 µg/L
Arsenic, 26 µg/L/TOGS 25 µg/L
Cadmium, 8.6 µg/L/TOGS 5.0 µg/L
Chromium, 73 µg/L/TOGS 50 µg/L
Iron, 44800 µg/L/TOGS 300 µg/L
Lead, 2260 µg/L/TOGS 25 µg/L
Magnesium 130000µg/L/TOGS 35000 µg/L
Manganese 6060 µg/L/TOGS 300 µg/L
Mercury 2.14 µg/L/TOGS 0.7 µg/L
Sodium 927000 µg/L/TOGS 20000 µg/L
Zinc, 155,000 µg/L/TOGS 2000 µg/L

Similar exceedances of metals when compared to the FP sample were found in the groundwater sample of MW-4 and summarized below:

Antimony, 105 µg/L/TOGS 3.0 µg/L
Cadmium, 8.5 µg/L/TOGS 5.0 µg/L
Chromium, 55 µg/L/TOGS 50 µg/L
Iron, 63800 µg/L/TOGS 300 µg/L
Lead, 2830 µg/L/TOGS 25 µg/L
Magnesium 129000µg/L/TOGS 35000 µg/L
Manganese 6430 µg/L/TOGS 300 µg/L
Mercury 3.19 µg/L/TOGS 0.7 µg/L
Sodium 961000 µg/L/TOGS 20000 µg/L
Zinc, 160000 µg/L/TOGS 2000 µg/L

The sample from MW-3 contained Lead at a concentration of 41.0J µg/L and Magnesium at a concentration of 35,300 µg/L.

Apart from the naturally occurring metals, RCRA based metals were found to be either below laboratory method detection limits or below TOGS groundwater criteria in MW-2 and MW-5.

ECL and 1,4-Dioxane

Seven ECL compounds and 1,4-Dioxane were identified.

6:2 Fluorotelomer sulfonic acid (6:2 FTS) was identified only in the sample from MW-3 at a concentration of 0.66J nanograms per liter ("ng/L").

N-Ethyl perfluorooctane sulfonamidoaceitc acid was identified only in the sample from MW-3 at a concentration of 1.4J ng/L.

Perfluorobutane sulfonic acid ("PFBS") was identified in the sample MW-2 and MW-2 Dup at concentrations of 0.4J ng/L and 0.36J ng/L, respectively.

Perfluorobutanic acid ("PFBA") was identified in the sample MW-2 and MW-2 Dup at concentrations of 3.4J ng/L and 3.3J ng/L, respectively.

Perfluoroheptanoic acid ("PFHpA) was identified in the sample MW-2 and MW-2 Dup at concentrations of 0.73J ng/L and 1.9J ng/L, respectively.

Perfluorooctane sulfonic acid ("PFOS") was identified in three samples: MW-3 at a concentration of 2.3 ng/L, MW-2 at a concentration of 1.5J ng/L, and MW-2 Dup at concentrations of 1.7 ng/L.

Perfluorooctanoic acid ("PFOA") was identified in three samples: MW-3 at a concentration of 11 ng/L, MW-2 at a concentration of 1.4J ng/L, and MW-2 Dup at concentrations of 1.3J ng/L.

I,4-Dioxane was found only in the sample from MW-2 at a concentration of 0.044 µg/L.

Cyanide

Cyanide was only found in the sample from MW-1 at a concentration of 0.007J milligrams per liter ("mg/L") (7J ug/L). The TOGs water quality criteria for Cyanide is 200 ug/L.

4.2.5 Soil Vapor Samples

Soil vapor samples, sub-slab vapor samples, ambient air samples and indoor air samples ("air samples") were collected during two field events: in January 2020 during the RI, and in March 2021 during the SRI. These samples were collected in accordance with the NYSDOH SVI Guidance. At one location (SV-1 during the RI sampling) a soil vapor sample was not collected because of a perched water table interfering with the sampling. This location and results from the RI sampling areas shown on Figure 11. Table 9 also presents the sample results. The SVI Guidance criteria are shown on Table 10.

Compounds found in the various air samples were also found in the soil and groundwater samples, in particular Acetone, Benzene, Ethylbenzene, 2-Butanone, Toluene, and Xylenes. TCE was found in groundwater at one sample location. Tetrachloroethene ("PCE") and Methylene Chloride which were not found in the soil or groundwater were identified in the air samples.

Additional compounds were found in the air samples but were not found in either the soil or groundwater samples. This may be an over simplifying statement since some of these compounds are not targeted by the analysis used on the soil and groundwater samples.

The NYSDOH has guidelines for indoor air for three of the compounds found by the analysis, Methylene Chloride, PCE, and TCE. Of these three compounds only Methylene Chloride was found in the outdoor air at a concentration of 0.715 micrograms per cubic meter ("$\mu g/M^3$"). Methylene Chloride was also found in the indoor air sample at a similar concentration of 0.74 $\mu g/M^3$ and 1.02 $\mu g/M^3$ (the duplicate sample to Indoor-1 "Inside"). Methylene Chloride was also found in sub-slab sample SS-1 at a concentration of 0.844 $\mu g/M^3$. Methylene Chloride was not found in soil vapor sample location soil vapor SV-1 in the vicinity of the former lagoon.

PCE was found in samples SV-1 and SS-2 at concentrations of 4.02 and 2.93 $\mu g/M^3$, respectively. The NYSDOH SVI Guideline, Matrix B, would not require any further actions to address human exposures for PCE. TCE was found in four samples: SV-1 at a concentration of 3.65 $\mu g/M^3$, Indoor-1 at a concentration of 2.74 $\mu g/M^3$, the duplicate sample Inside at a concentration of 2.71 $\mu g/M^3$, and SS-1 at a concentration of 2.86 $\mu g/M^3$. Under the NYSDOH SVI Guideline, Matrix A, recommends that "reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges." (See Section 4.2.6 for supplemental air sampling results and building chemical inventory findings).

The other compounds of significance that do not have NYSDOH air guidelines can be divided into two groups: Group 1 where the concentrations found were higher beneath and inside the building than over the former lagoon; Group 2 where the concentrations found were higher in the former lagoon than they were inside or beneath the building.

Group 1 includes Acetone, Benzene, Chloromethane and 2-Butanone, Table 11 below shows these compounds were found to have higher concentrations in the sub-slab samples than in the former lagoon area. Also, the outdoor air concentrations mirror those of the indoor air quality, suggesting the concentrations of these compounds are not entirely from the sub-slab environment.

Table 11
Group 1 Compounds and Distribution

Client Sample ID		SV-1	DUPLICATE-INSIDE	INDOOR-1	SS-1	OUTDOOR 1	SS-2
Analyte	**Units**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
ACETONE	ug/m3	**8.08**	**12**	**12.5**	**74.6**	**16.8**	**23.3**
BENZENE	ug/m3	**0.99**	**1.07**	**1.14**	**1.23**	**1.15**	ND (0.639)
CHLOROMETHANE	ug/m3	**0.423**	**1.52**	**1.58**	**1.55**	**3.7**	ND (0.413)
METHYLENE CHLORIDE	ug/m3	ND (0.694)	**1.02**	**0.74**	**0.844**	**0.715**	ND (0.694)
2-BUTANONE (MEK)	ug/m3	ND (3.69)	ND (3.69)	ND (3.69)	**8.96**	ND (3.69)	**11.5**

Group 2 includes Ethylbenzene, PCE, Toluene, TCE and Xylene, Table 12 below shows these compounds were found to have higher concentrations in the former lagoon area than in the sub-slab samples or indoor air samples. Also, the indoor air samples had concentrations of these compounds slightly higher than the outdoor air concentrations. This suggests that the indoor air concentrations were potentially being influenced by products containing VOCs currently in use and/or stored in other parts of the building (See Section 4.2.6).

Table 12
Group 2 Compounds and Distribution

Client Sample ID		SV-1	DUPLICATE-INSIDE	INDOOR-1	SS-1	OUTDOOR 1	SS-2
Analyte	**Units**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
ETHYLBENZENE	ug/m3	**4.81**	**1.3**	**1.2**	**1.66**	**0.876**	ND (0.867)
TETRACHLOROETHENE	ug/m3	**4.02**	ND (1.36)	ND (1.36)	ND (1.36)	ND (1.36)	**2.93**
TOLUENE	ug/m3	**18.6**	**10.5**	**9.94**	**12.1**	**2.57**	**0.9**
TRICHLOROETHENE	ug/m3	**3.65**	**2.71**	**2.74**	**2.86**	ND (1.07)	ND (1.07)
M&P-XYLENE	ug/m3	**13.2**	**5.03**	**4.6**	**7.72**	**2.98**	ND (1.73)
O-XYLENE	ug/m3	**3.69**	**1.47**	**1.32**	**2.14**	ND (0.867)	ND (0.867)

4.2.6 Supplemental Remedial Investigation - Air

Leader conducted a Supplemental Remedial Investigation ("SRI") on March 19, 2021, to further evaluate indoor air and sub-slab conditions within a portion of the warehouse building south of the BCP boundary (See Appendix A). The objective of the SRI was to determine the potential for soil vapor intrusion in the off-Site portion of the building and gain a better understanding of off-Site indoor air conditions as it relates to the NYSDOH SVI Guideline. The work was conducted in accordance with the Supplemental SRI Work Plan – Field Sampling ("SWP") approved by the NYSDEC and NYSDOH on March 1, 2021, and was conducted in accordance with NYSDOH SVI Guidelines.

Except for Methylene Chloride, none of the compounds that have NYSDOH indoor air guidelines were detected in the SRI samples. Methylene Chloride was found in the two indoor air samples at a concentration of 24.0 micrograms per cubic meter ("mcg/M^3") in sample IA-1 and

at a concentration of 16 mcg/M^3 in sample IA-2. The concentrations of Methylene Chloride in the indoor air were below the NYSDOH 2017 indoor air guideline value of 60 mcg/M^3 .

Methylene Chloride was not found in the sub-slab samples or the outdoor air, indicating that that the indoor ambient air concentrations could be the result of use or storage of products that contain this chemical within the building.

Other compounds found were consistent with the on-Site samples collected during the RI activities. The following compounds were found: Acetone, Benzene, Ethylbenzene, Methyl Ethyl Ketone ("MEK"), Toluene and Xylene. No chlorinated compounds were found in the SRI sample analysis results however they were found in the samples during the RI. Acetone, MEK and Toluene were found in both the indoor air and sub-slab samples during the SRI, but only in the sub-slab samples during the RI. During the SRI, Benzene was found only in the sub-slab samples. During the RI, Benzene was found in sub-slab and indoor air samples.

Figure 5 and Table 3 of the SRI Report provides the locations and analytical results of the air concentrations, respectively.

On June 30, 2021, Leader returned to the Site to further assess other off-Site portions of the former manufacturing building to examine current tenant activities such as, types of chemicals used, stored and managed at the Site and determine possible sources attributing to the detections of the Methylene Chloride and other detected VOCs found in the indoor air during the SRI.

Leader entered a wood furniture refurbishing shop located at the southwest corner of the former manufacturing building. The shop is reportedly operated by one person on a part time basis. Activities include repair, stripping, sanding, painting, and refinishing of antique wood furniture.

Immediately upon entering the refurbishing shop, a lacquer thinner/stripper like odor was noted and a PID reading of 12.4 ppm was reported in the ambient air within the shop, with higher readings recorded near the flammable materials storage locker. An open five-gallon container of gelled paint stripper or lacquer thinner was observed at the doorway entrance, emanating VOC vapors. One (1) five-gallon pail of furniture stripper listed Dichloromethane and Methanol as its primary ingredients was observed. Dichloromethane is a synonym of Methylene Chloride. Various size containers and aerosol cans containing wood stains, mineral spirits, Stoddard solvents, petroleum distillates, paint thinner, spray toners and lacquers were observed in the flammable materials storage locker, and on shelves and tables within the shop.

The shop was not being ventilated at the time of entry. A wall mounted exhaust fan was observed near the ceiling of the shop and reportedly operates while the proprietor is engaged in stripping and refinishing operations. The fan directs the indoor building air directly to the atmosphere.

Insight Floor Coverings occupies a garage space at the northwest portion of the building within the BCP boundary. Commonly used products observed consisted of carpet, vinyl and ceramic tile adhesives stored neatly on shelves. The containers were labeled "Solvent and VOC Free" by the manufacturer or listed as "Contains VOCs less than 34 grams per liter". The SDS's for these products lists the ingredients as "Proprietary" but were identified as containing no hazardous ingredients. Approximately 98% of the products were new and un-opened. Minimal containers that had been previously opened were observed to be sealed tight with the original lids. Neither VOC odors, spillage, nor PID readings were observed inside the Insight Floor Coverings garage space.

The presence of products containing Methylene Chloride, Acetone, Benzene, MEK, Toluene and Xylene observed in the furniture refurbishing shop is a probable source of the constituents detected in the building's indoor air during the RI and SRI.

Based on the RI results, in addition to the off-Site SRI findings, actions are not needed at this time to address exposures related to soil vapor intrusion. However, improving housekeeping practices and/or implementing more effective engineering controls within the furniture repair shop would likely improve the air quality within the building.

A copy of the SRI Report, including analytical results of the air sampling, NYSDOH Indoor Air Quality Questionnaire and photographs of the products used in the furniture refurbishing shop is provided in Appendix A.

4.3 Data Usability Summary Report

A Data Usability Summary Report ("DUSR") was prepared for each group of samples (soil, groundwater, and air) by ME Holvey Consulting, LLC ("MEHC"). The DUSR is provided in Appendix D. The DUSR performed on the SRI soil and air samples is provided in the SRI Report provided in Appendix A.

4.3.1 Soil Samples

The data was found to be usable. There were encumbrances to the analysis, but these did not affect that sample data. Matrix interferences were problematic to the SS samples SS-1, SS-3 and SS-4, and the ability for the analyst to get consistency with surrogate samples being analyzed for pesticides, herbicides, and PCBs. Matrix interference also played a role in the analysis of metals, where the sample contained large amounts of an element being used as a surrogate.

Laboratory contamination was identified during the analysis of Trip Blank samples, when a Method Blank found Acetone present. Acetone was not found in the Trip Blank.

There were no issues identified with the SRI analysis. MEHC found the data to be valid and usable.

4.3.2 Groundwater

The data was found to be usable. There were encumbrances to the analysis, but these did not affect that sample data.

The analysis of ECL in the sample MW-3 encountered matrix interferences due to the percentage of solids in the sample. The analysis was redone with a similar result. The results for the particular impacted ECL's were qualified with an "X." The impact of this resulted in a higher variability with the quantitation of result (bias). Since the impacted compounds were not identified above the method detection limit the impact on the analysis is small.

Groundwater samples were not collected during the SRI.

4.3.3 Air

The data was found to be usable for the RI and SRI. There were no issues identified with the RI analysis except that Methyl Ethyl Ketone was found in the laboratory method blank sample at a concentration below the laboratory reporting limit. This did not impact the analysis.

5.0 CONCEPTUAL MODEL FOR THE SITE

5.1 Physical Site Conditions

The Site is completely developed with a concrete block building covering approximately 8,843 sq. ft. and the remaining 26,440 sq. ft. is covered with asphalt pavement. The property line is shown on Figure 2. On the north and west sides of the Site the property line weaves on and off the edge of the pavement.

North of the Site the ground surface elevation slopes to the north and west on to land used as a lumber yard. East of the Site building the ground surface slopes towards the street. On the west side of the Site, the ground surface is relatively flat but immediately off the Site to the west the topography rises forming a berm or hill which then drops in elevation to a railroad right-of-way further to the west. The railroad right-of-way and the property to the north are at an elevation that is lower than the Site. Little if any runoff from the Site can run onto the property to the north. South of the Site the ground surface is flat and approximately the same elevation as the Site.

Because of the Site's topography, the Site building's main floor is at ground level on the west side of the Site and is approximately 3-feet higher than the ground surface on the east side of the Site.
Runoff falling on the west side of the Site flows east to catch basins near the west side of the Site's building. On the east side of the Site, runoff flows toward catch basins located between the building and the street.

5.2 Subsurface Conditions

Fill appears across the Site, mainly on the west side of the Site. The fill materials found include mixed soils with debris (concrete and scrap metal) and in some locations material which is interpreted as paint waste or paint residuals. The depth to the bottom of the fill is not uniform. Where the former lagoon is believed to be located, fill may be to a depth of 10-feet below the ground surface, but at the margins of the lagoon the fill is replaced by soil, clay and clay mixtures, interpreted to be native materials. Clay and clay mixtures are the most common soil types on the Site, and it is suspected these continue off the Site. Because of the clay, a saturated zone where groundwater is present was difficult to identify in the soil samples. Intervals of wetness were found, but in comparison to the water table they were quite different. Once the monitoring wells were installed, the static water levels were found at approximately 5 to 6-inches below the ground surface. This indicated that the saturated zone has a hydraulic head of 2 to 10-feet or the clay seeps water into any void that it can fill. This seepage is not water flow as is typically thought of in a porous matrix (i.e., sand), which flows in response to hydraulic head differences created in response to pumping or regional hydraulic head gradients but extends over a larger area. Over the short distances found on the Site, for example between MW-1 and MW-4 the difference in hydraulic head is 2 feet whereas between MW-1 and MW-3 (approximately the same horizontal distance) the difference is 0.44-feet, see Figure 7.

The lack of flow caused by the clay is also exhibited by the slow recharge response to purging and the lack of an extended groundwater contaminant plume. This is exhibited by the groundwater results between the pairs of wells, MW-1 and MW-2 and MW-1 and MW-4. These pairs have MW-1 in a downgradient position, where contamination would be expected if groundwater was flowing.

5.3 Extent of Contamination

The results of the RI and SRI, including the findings from previous investigations by the NYSDEC found soil to be primarily contaminated by paint manufacturing related VOCs, specifically acetone, ethylbenzene, methylene chloride, toluene, and xylenes. The metals antimony, barium, chromium, lead, and mercury were also found to exceed the CSCOs. Total PCB concentrations above the CSCO of 1.0 mg/Kg were detected primarily in soil less than six feet bgs in the settling lagoon sediments. The impacts appear to be concentrated in and immediately adjacent to the settling lagoon and former trench that was used to discharge paint related wastes to the lagoon (See Figure 5). Leader estimates that approximately 750 tons of soil/fill exceeding CSCOs exist within the limits of the settling lagoon and trench and 200 tons of soils/fill exceeding CSCO exists along the north and west Site boundaries.

The soil sample interval from 4 to 6-ft from SB-3, is impacted by SVOCs. No other soil samples show a SVOC impact in the SB-3 subsurface soil samples.

Six SVOC compounds in the form of PAHs were found in all four RI surface soil samples at concentrations exceeding the CSCOs. The PAH compounds identified included the following: Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, and Chrysene all with CSCO of 1 mg/Kg; and Dibenz(a,h,)anthracene and Indeno(1,2,3-cd)pyrene with CSCOs of 0.56 and 5.6, respectively. Concentrations of the SVOCs above CSCOs ranged from 1.4 mg/Kg to 110 mg/Kg. Neither Metals, VOCs, Pesticides, Herbicides nor PCBs were detected at concentrations above applicable CSCOs from the RI surface samples.

Six additional surface soil samples were collected during the SRI along the northern and western Site boundaries and analyzed for SVOCs, including four surface samples collected off-Site (See Figure 5). The soil sample analysis results found SVOCs exceeding applicable CSCOs along and immediately outside the Site boundaries, with the highest concentrations along the northern Site boundary. The SRI findings are consistent with the RI findings where sample locations SS-3 and SS-4 were found to have the highest concentrations. Although the SRI findings indicate that the soil samples contain SVOC concentrations above CSCOs, the level of impact decreased below the 12-inch depth. The SVOC exceedances in the shallow soil sample intervals is likely attributed to the observed prevalence of bituminous asphalt mixed in the soils rather than the result of past operations at the Bisonite facility. The soils along the northern Site boundary consist of an approximate 415 feet linear vegetated berm separating the Sites paved surface from the adjacent 84 Lumber warehouse building. The berm averages less than ten feet in width, and approximately four feet of which is considered on-Site. Assuming an excavation depth of two feet, Leader estimates that approximately 120 cubic yards of unpaved soils with SVOCs above CSCOs exists along the northern limits of the Site.

Contaminants detected in the Site's groundwater are consistent with paint derived ingredients commonly associated with paint manufacturing operations. This includes the presence of VOCs exceeding TOGS such as Acetone, 2-Butanone, Chloroform, Ethylbenzene, Toluene, and Xylene found in MW-3, and substantially higher concentrations in MW-4 where a layer of free product was observed on top of the groundwater. MW-3 and MW-4 were installed within the footprint of the settling lagoon depicted on a 1972 aerial photograph. The locations of MW-3 and MW-4 are shown on Figure 5.

Apart from Iron, Magnesium, Manganese and Sodium exceedances, Antimony and Lead exceeding TOGS was found in MW-3. Substantially higher concentrations of Metals were detected in the groundwater and FP samples of MW-4. PCBs were also detected in groundwater in MW-3 and the groundwater sample and FP sample at MW-4. The samples from MW-3 and MW-4 demonstrate a strong correlation with the soil data from SB-2, SB-3, SB-5, and SB-6, because of the presence of similar VOCs, metals, and PCBs.

Apart from the Iron, Magnesium, Manganese and Sodium exceedances, a Mercury concentration of 0.49 µg/L was found at MW-1, which is slightly above the TOGS groundwater quality criteria of 0.40 µg/L. The sample from MW-1 is not impacted by VOCs, pesticides, herbicides or PCBs.

The sample from MW-2 shows little presence of the VOCs found in the other monitoring wells. However, TCE and Cis 1,2-Dichloroethene were detected above TOGS in the primary sample but were below TOGs guidance values in the duplicate sample. This may suggest the samples were collected from the soil/water interval that has not been impacted by the paint manufacturing and lagoon.

Although MW-1 and MW-2 are in relative proximity to the former paint lagoon, the lack of detectable contaminants appears to be related to the ability of the native clay mixtures to limit the migration of some organics. Based on the groundwater results and Site geology, the extent of groundwater contamination appears to be limited to perched water on top of an impermeable clay layer within the footprint of the settling lagoon.

Compounds found in the RI and SRI indoor and outdoor air samples and soil vapor samples were also found in the soil and groundwater samples, including, but not limited to, Acetone, Benzene, Ethylbenzene, 2-Butanone, Toluene, and Xylenes. Tetrachloroethene and Methylene Chloride, which were not found in the soil or groundwater samples, were identified in the air samples. After returning to the Site to complete a building chemical inventory, a furniture refurbishing shop located at the southwest corner of the building contained numerous products containing ingredients like the compounds detected in the indoor air samples. Elevated PID levels within the shop, open lid containers, distinct VOC odors, and a simplistic air exhaust fan discharging volatiles directly to the atmosphere suggests that the compounds found in the RI and SRI indoor air samples and outdoor air control sample are in large part contributing to these conditions.

5.4 Contaminants of Concern

The primary compounds and elements that are a concern have been identified given the current use of the Site and the adjacent properties. The zoning for the properties the type of use is not anticipated to change in the near future. The Site is identified by the Town of Tonawanda as being within the Waterfront Industrial District ("WID"). Based on the Site's current and likely future use identifying the contaminants of concern ("COC") as those exceeding the CSCO is consistent.
Table 13 identifies the COCs based on the media they have impacted.

Table 13
Contaminants of Concern

COC	Indoor Air	Soil Vapor	Surface Soil	Subsurface Soil	Groundwater
PCBs	Not analyzed	Not analyzed	< CSCO	>CSCO	>TOGS
PAHs	Not analyzed	Not analyzed	>CSCO	>CSCO	Not Found
VOC[1,2]	< NYSDOH Guideline	NYSDOH Guideline	Not Analyzed	>CSCO	>TOGS
Lead	Not Analyzed	Not analyzed	< CSCO	< CSCO	>TOGS
Cadmium	Not Analyzed	Not analyzed	< CSCO	< CSCO	>TOGS
Chromium	Not Analyzed	Not analyzed	< CSCO	< CSCO	>TOGS
Magnesium	Not Analyzed	Not analyzed	< CSCO	< CSCO	>TOGS
Zinc	Not Analyzed	Not analyzed	< CSCO	< CSCO	<TOGS
Mercury	Not Analyzed	Not analyzed	< CSCO	>CSCO	>TOGS

1. The VOCs identified that exceed the applicable cleanup requirement or guideline varies depending on media. In the subsurface soil those compounds in exceedance include Ethylbenzene and Toluene. In the water Ethylbenzene, Toluene, Acetone, Chloroform, TCE, Cis, and Xylene.
2. New York State does not have standards or criteria for compounds in soil vapor. NYSDOH SVI Guideline, Matrix B, would not require any further actions to address human exposures for PCE. Matrix A recommends that "reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges.

6.0 QUALITATIVE EXPOSURE ASSESSMENT

6.1 Potential Human Health Exposure Assessment

This section discusses the current and future routes of exposure given the current use of the Site and the adjacent property and its likely future use. Since the property is zoned for industrial use, it is likely there will not be a notable change to the Site. The Site consists of relatively unoccupied warehouse/self-storage space but could change to industrial/commercial spaces with office space or workspace for employees. The planned reuse is consistent with the surrounding property use and zoning.

Though VOC, Metals and PCB impacted soil/fill above Part 375 CSCOs is currently present at the Site, contamination is limited to the subsurface within the footprint of the former paint waste lagoon. Direct contact is highly unlikely and limited to non-routine contact during excavation work (construction worker).

The Site is completely paved, but there are areas immediately off the Site where there are unpaved areas of sediment/fill impacted by PAHs. The unpaved areas are vegetated by grasses weeds and woody vegetation. However, if these areas are stripped of vegetation, the soils could represent a source of contaminants and an exposure route via ingestion and/or inhalation of dust. At present, these areas are not utilized or maintained with no intent for future utilization. The PAHs detected during the RI and SRI are likely derived from bituminous asphalt particles mixed in the soils rather than from past manufacturing operations or waste handling practices at the Site.

Groundwater is not used as a source of water, as either a drinking water supply or operations, on or off the Site, so this route of exposure is eliminated. The Site currently has no tenants or operations that will conduct intrusive work so direct contact or ingestion exposures are eliminated. Human contact with groundwater can be expected to be limited to only one receptor, construction worker, during intrusive activities. Currently groundwater impacts appear to be primarily related to the former settling lagoon.

Inhalation is a route where the VOC COC's could enter the Site's building by way of vapor intrusion. This portion of the building is unoccupied minimizing the threat and the future use of the building is intended to be for warehousing. Warehousing/self-storage is also the primary use for the adjoining sections of the building. The portion of the building immediately south of the building and off Site, is occupied by up to two individuals. This space is a small office space, which is a flex-space (the walls are constructed to be removed based on the tenants needs and the ceiling does not reach the full height of the building's roof) and has a small room heater. The space also has large overhead doors to receive merchandize.

In the future, there is no significant changes to the routes of exposure, given the Site remains in commercial use, with the possible exception of a tenant or owner having employees. In this case vapor intrusion could be a route of exposure.

Under both the current and future plans utility workers or building contractors entering the Site to conduct repairs or renovate/construct buildings may disturb the ground surface and open new routes of exposure. These may include direct contact to soil and groundwater, ingestion of soil and inhalation of soil and vapor.

6.2 Receptors

Receptors to the COCs fall into the following categories: on Site employees; workers; visitors; utility workers; building contractors and repair personnel; and off-Site workers and residents.

The Site has only unoccupied warehouse/storage space. Tenants or their workers typically come to the Site or property for short periods of time to receive or deliver items. These individuals are not exposed since they do not work in occupied/workspaces where they spend prolonged periods of time or have work that entails disturbing the ground surface. Utility workers, building contractors and repair contractors entering the Site have the potential to conduct intrusive work into the soil to expose utilities for repairs, make new connections/installations, or for making renovations to the existing building/constructing new buildings. The disturbance of the ground surface creates the following potential exposure routes: direct contact with soil and groundwater if proper personal protective equipment isn't worn (gloves, boots, traditional work clothing, etc.); ingestion of soil or groundwater if skin, and clothing are not cleaned, there is potential for dirt or water to be ingested when eating; inhalation of soil dust created when the soil is disturbed or if the contaminants are inhaled if an individual enters an excavation where the contaminants may not mix with the air and remain in a concentrated form.

The routes of exposure to off-Site workers and residents are restricted to the inhalation of dust created when the Site soils are disturbed. Even though this is a potential outcome the likelihood of it occurring is low given the soil would have to be disturbed, the wind would need to be in the direction of the individual and a there must be sufficient velocity to create and carry airborne dust; and have a duration of time giving the individual a measurable dose of COC. Potential exposures will be addressed, and if necessary reduced by the implementation of a Community Air Monitoring Program and applying engineering controls such as wetting the soils to reduce dust during remedial activities.

Inhalation via the vapor intrusion route is also important for the adjacent building occupants since they share part of the building space which is off the Site. The off-Site adjacent building space is used for warehousing and has a large open space with overhead doors for accepting and loading items. Within the large space there is flex space office with space heating, where one to two employees work if not in the warehouse. VOCs were detected in the sub-slab and indoor air samples within this space during the SRI. The VOCs in the air are likely attributed to products used in the furniture refurbishing shop. Proactive actions to better contain, eliminate unused or expired products, and re-evaluate ventilation practices during furniture stripping and refinishing operations will be implemented to prevent or at a minimum, reduce the migration of VOCs throughout the building.

6.3 Fish and Wildlife Impact Analysis

An analysis of the existing and potential impacts the Site's contaminants has on the surrounding environment is evaluated. This analysis considers groundwater, impacts to the soil and its potential to run off the Site, impacts to waterways, and impact to the plants, animals, fish and their habitat.

The current Site is a commercially developed facility located within a highly developed area of the Town of Tonawanda. The Site is predominantly covered with asphalt, concrete, and building, which provides little or no wildlife or food value, and/or access to the detected subsurface contamination. The surrounding properties are also developed. South and west of the Site, there are larger areas of grass covered land, but these are rights-of-way or areas being used by the Town of Tonawanda as a landfill. As Figure 12 shows, there is little in the surrounding area that is valued as a sensitive environment (i.e., habitat, wetland, surface water).

Runoff from the Site is generally conveyed to catch basins and eventually to a municipal storm water system or to the street where again the storm water is discharged into municipal storm water system. On the north side of the Site, where the Site is adjacent to another commercial property, some Site runoff may enter the off-Site property. On the west side, the Site is adjacent to a berm/hill which restricts runoff from entering this property. To the south, runoff from the Site co-mingles with the off-Site property runoff and enters catch basins on the property or the Site. The eventual discharge of the municipal storm water system is into Two Mile Creek; the shortest distance from the Site is 0.9-miles to the west. Although the surface soil found on and immediately off the Site is impacted by PAH compounds, the total area being exposed to runoff is minor compared to the paved and building areas also contributing runoff. The estimate of exposed soil is approximately 1,550 sq. ft. compared to a Site area of approximately 35,300 sq. ft.

Groundwater samples shows that the Site has been impacted and as a result there is a potential for it to migrate off the Site. Figure 7 shows the water table contours which suggests water flow is to the west-northwest. The water quality data (see Table 7) suggests that the downgradient monitoring wells have not been significantly impacted. The presence of the clay soil inhibits the amount of water potentially leaving the Site. Regional groundwater flow data is limited but suggests land northwest of the Site may have water flow patterns toward the Site. This suggests either a mutual point of discharge, possibly in the railroad right-of-way or in a deeper groundwater zone.

No unacceptable ecological risks are anticipated under the current or reasonably anticipated future use scenario.

6.4 Exposure Pathway Analysis

The impacts found at the Site include COCs in the sub-surface soils within the former lagoon and lagoon trench (VOCs and PCBs), exposed surface soils along the north and west BCP Site boundary (SVOCs), groundwater (VOCs, Metals and PCBs), and VOCs in soil vapor and sub-slab vapor. VOCs, including but not limited to Methylene Chloride and BTEX compounds, were detected in the indoor air. The presence of products containing these VOCs observed in the furniture refurbishing shop is the probable source of the constituents found in the indoor air during the RI and SRI.

Because of the use of the Site as unoccupied warehouse/storage space, many of the impacts, if not disturbed, do not have a completed route of human exposure. There are exceptions, which include the potential exposure to dust from surface soil and the potential exposure of VOCs from contaminated soil and groundwater by way of vapor intrusion. The potential completed routes of exposure to the environment include surface soil exposure to runoff and impacted soil exposure to groundwater (soil contaminant concentrations exceeding groundwater protection values). The potential for surface soil pathway has been shown to be small because of the small, impacted area compared to the total Site area. The soil data shows there are samples where the contaminant concentrations are greater than the Part 375 Groundwater Protection SCO ("GWSCO") and several of these contaminants can be found in the groundwater. This is a potential completed route of exposure, but the impacts do not appear to be migrating from the Site as evidenced by the lack of contaminants found in wells installed outside the footprint of the former paint waste lagoon.

7.0 RI CONCLUSIONS

The former use of the Site as a paint manufacturer impacted the soil, groundwater. The COCs contravening the CSCOs, GWSCOs, and TOGS in the various media at the Site include VOCs, PAHs, PCBs and elements (metals and mercury). The COCs appear to be relatively contained to sediments and perched groundwater within the footprint of the former paint waste lagoon.

The observed furniture refurbishing shop that occupies the southwest corner of the building is a probable source for the VOCs detected in the indoor air as demonstrated during the SRI.

The soil and groundwater data indicates there is limited on-Site exposures of human health as the Site outside the building footprint is mostly paved. Site exposures are likely to occur if the ground surface or soil is disturbed and when there is dry surface soil conditions and wind velocities that might create dust hazard.

If the Site building becomes a permanently occupied space, then vapor intrusion should be re-evaluated after conditions within the furniture refurbishing shop have been improved to confirm that the contaminants detected are not emanating from the sub-slab environment. Based on the RI and SRI soil vapor and indoor sampling findings, an SSDS is not required for the Site. There are no plans for the future development of occupied buildings at the Site.

The potential exposures off-Site are like those found on the Site but are limited to dust hazards and exposure to airborne chemicals used in the furniture restoration shop because the building beyond the BCP boundary has two occupants. Groundwater is impacted, but the water flow data suggests contamination is not migrating off-Site due to stiff clay limiting groundwater flow. Groundwater impacts appear to be contained within the footprint of the former paint lagoon. The Site and surrounding properties are serviced by municipal water and there are no users of groundwater in the general area.

8.0 REMEDIAL ALTERNATIVES EVALUATION

This section provides an analysis of the selected remedial approach by media using Remedy Selection Evaluation Criteria identified in Section 4.2 of Guidance Document DER-10; Technical Guidance for Site Investigation and Remediation. In accordance with DER 10 Section 4.4(d)2, in addition to a "no action" baseline alternative, the following two alternatives are developed for the Site based on NYSDEC-defined cleanup tracks as follows:

Track 1: 6 New York Codes, Rules, and Regulations (6NYCRR) Part 375-3.8(e)(1) requires Site media to meet Part 375 SCOs that will allow the Site to be used for any purpose without restrictions on the use of the Site (i.e., unrestricted use). The soil cleanup must achieve the unrestricted use criteria at any depth above bedrock. Details and remedial approaches of the Track 1 alternatives are described in report Sections 10.1.3 and 10.2.3.

Track 4: Track 4 cleanups generally include some combination of techniques to: remove or treat contaminants; control the spread of contaminants; prevent contact with contaminants; restrict the use of the property and provide for the proper management of the Site into the future. This track addresses all sources as a component of the remedy and allows for the development of Site-specific soil cleanup levels below a cover system over exposed residual contamination that complies with the use based SCOs in Table 375-6.8(b) levels for the top one foot for non-residential uses. Details and remedial approaches of the Track 4 alternatives are described in report Sections 10.1.2, 10.2.2, 10.3.2 and 10.3.3.

8.1 Remedial Action Objectives

To select an appropriate remedial alternative for the Site, a list of appropriate remedial action objectives ("RAOs") were developed to establish the criteria that remedial alternatives are evaluated against. In accordance with NYSDEC DER-10, Section 4.1, RAOs are established for the remedy selection process:

1. From the generic RAOs identified, as applicable to the contaminants identified by the RI; or
2. By developing a Site-specific RAO, where the generic RAOs provided on the NYSDEC's website do not address a unique Site condition. Such RAO's may be proposed by the remedial party or as required by DER-10.

8.1.1 Soil

RAOs for Public Health Protection

- Prevent ingestion/direct contact with impacted soil.
- Prevent inhalation of, or exposure to, impacts from the COCs in the soil.

RAOs for Environmental Protection

- Prevent migration of impacts that would result in groundwater or surface water impacts.
- Prevent impacts to biota from ingestion/direct contact with soil causing toxicity or impacts from bioaccumulation through terrestrial food chain.

Since there are no significant ecological resources on the Site, the RAO for Environmental Protection; is not considered appropriate for the Site.

8.1.2 Soil Vapor

RAOs for Public Health Protection

- Routinely monitor impact to public health resulting from existing, or the potential for, soil vapor intrusion into the building at the Site.

8.1.3 Groundwater

RAOs for Public Health Protection

- Prevent ingestion of or direct contact with groundwater containing levels exceeding drinking water standards.
- Remove the source of potential groundwater contamination.

RAOs for Environmental Protection

- Groundwater quality restoration by evaluating the feasibility of measures to restore groundwater quality to meet applicable standards, criteria, and guidance ("SCGs").
- Prevent the discharge of impacts to surface water.
- Remove the source of ground or surface water impacts.

With respect to the RAO for Environmental Protection to prevent the discharge of impacts to surface water; the Site has no direct connection to surface water. There is no need to address this RAO since it is not appropriate for the Site. In the event that Site activities disturb the ground surface, the property line will be protected to eliminate the potential for runoff to enter the street or the adjacent properties.

8.2 Additional Evaluation Criteria

In addition to the selected remedy capable of achieving applicable RAOs, 6 NYCRR Subpart 375.1.8(f*)* provides that "A remedy shall be selected upon consideration of the following nine factors:"

- Overall protection of public health and the environment
- Compliance with SCG
- Long-term effectiveness and permanence
- Reduction in toxicity, mobility, or volume of impacts through treatment
- Short-term impacts and effectiveness
- Implementation
- Cost-effectiveness, including capital cost and annual maintenance plan costs

- Community acceptance
- Land use

9.0 IDENTIFICATION OF TECHNOLOGIES AND DEVELOPMENT OF ALTERNATIVES

9.1 General Response Actions

During the RI and SRI, four media elements were found to be impacted and require evaluation to determine an appropriate remedial response. The impacted media include the following:

- the surface soil along the north and west property boundaries
- the soil/fill within the Site's former paint waste lagoon and associated trench
- the groundwater beneath the Site's former paint waste lagoon
- soil vapor beneath the warehouse building and VOC detections in the indoor air.

The alternatives must address the RAOs and the nine additional evaluation criteria to continue the use of the Site for commercial purposes.

9.2 Presumptive Remedies

NYSDEC has given preference to proven presumptive remedies to streamline the alternative development process. These presumptive remedies are discussed in the following sections.

9.2.1 Soil

For soils impacted with organic compounds or metals the following remedies are considered presumptive remedies:

- Excavation with off-Site disposal
- Excavation combined with aerobic treatment via chemical bio-augmentation
- Cover system with institutional controls

NYSDEC has identified other remedies, but those are considered not practical for the Site. They include the following:

- Thermal desorption
- Incineration
- Immobilization

Thermal desorption as an in-situ treatment is not considered due to the energy needed to implement the remedy because of the soil high moisture content exceeding the cost of other technologies. On-Site incineration as a treatment option for excavated soil, like thermal desorption, is not practical based on the high moisture content of the clay like soils and the footprint needed to implement the technology impacting the other operating businesses.

9.2.2 Soil Vapor / Indoor Air

For soil or groundwater impacted with VOCs, the following remedies are considered presumptive remedies:

- Vapor mitigation system
- Active monitoring and management

The other remedies that are not considered practical for the Site include:

- Catalytic oxidation
- Thermal oxidation
- Soil vapor extraction (SVE)

Catalytic and thermal oxidation remedies are not being considered because they are intended to treat off-gas from SVE and sub-slab vapor depressurization systems ("SSDS"). At this time off-gas treatment is not anticipated, and the installation of an SSDS is not anticipated to be required for the Site. A site visit was conducted in March 2023 that indicated the use of a portion of the on-site building space had changed and a small portion was being used as office space. Based on the site visit, the need for SVI mitigation is currently being evaluated under a separate work plan titled Work Plan for Additional Soil Vapor Intrusion Sampling dated June 2023 (Additional SVI Work Plan) and approved by the NYSDEC in July 2023. The additional soil vapor intrusion (SVI) sampling was completed on August 28, 2023. An Additional Soil Vapor Intrusion Report was prepared and submitted to the NYSDEC on November 2, 2023, which is currently under review. If additional monitoring indicates that SVE is required in the future, the shallow groundwater table and the clay-like soil will be design considerations for SVE as the vacuum needed for extraction could potentially cause groundwater to be entrained into the vapor flow and limit effectiveness of the system. If SVE is required in the future, catalytic and thermal oxidation may be evaluated at that time.

9.2.3 Groundwater

For groundwater impacted with VOCs, the following are considered presumptive remedies:

- Extraction and/or treatment:
    - Air stripping and air sparging
    - Treatment via granulated activated carbon ("GAC")
    - In-situ injection of oxygen release compounds ("ORC") for enhanced bioremediation
    - Mechanical mixing of ORC into saturated soil and groundwater for enhanced bioremediation
    - In-well air stripping
    - Separate phase recovery and treatment

Extraction and treatment and assorted effluent treatment technologies ideally require a constant flow of groundwater unless a batch system is developed where a technician would come to the Site periodically to treat the collected effluent. The technologies using in-situ techniques are more cost effective and adaptive as conditions change.

Air sparging and in-well air stripping are considered, but if SVE is required to collect the off-gas, then the shallow water table makes these technologies impractical. In-well air stripping by itself may also be impractical because of the shallow water table. Since a non-aqueous phase liquid was identified in one well on the Site, this alternative may be appropriate; however, the extent of the free product layer may not be large enough to justify extraction as a feasible alternative.

In-situ injection of proprietary amendments such as Regenisis™ ORC® is not practical due to the clay soil and low transmissivity of groundwater. ORC treatment is not effective in treating free product on groundwater observed in MW-4. In addition, ORC treatment is not intended to remediate PCBs and metals in the soil.

9.3 Development of Alternatives

9.3.1 Soil

To remediate or control the soil impacts, technologies that can address both organic compounds, metals, and PCBs are preferred, but technologies that can address the impacts singularly (e.g., organics) will also be considered. There are surface soils impacted by PAHs; and subsurface soils beneath the pavement are impacted by VOCs, PAHs, PCBs, and Mercury. The presumptive technologies being considered include the following:

- Excavation with off-Site disposal of unpaved surface soils and former paint waste lagoon subsurface soils/fill
- Cover system as an engineering control and implementation of institutional controls

9.3.2 Soil Vapor / Indoor Air

Although New York State does not have standards, criteria or NYSDOH air guidelines for concentrations of VOCs in the subsurface vapors, various COCs were detected beneath the Site building. Soil vapor intrusion evaluations of the building conducted in January 2020 and March 2021, including the off-Site portion, indicated that mitigation was not required at that time. The presence of furniture stripping and finishing products containing Methylene Chloride, Acetone, Benzene, MEK, Toluene and Xylene observed in the furniture refurbishing shop located in the off-Site portion of the building was a probable source of the constituents detected in the building's indoor air during the RI and SRI. The lease for the tenant that was performing the furniture restoration was not renewed, and the tenant no longer occupies the space. However, as mentioned in Section 9.2.2, based on a site visit conducted in March 2023, the need for soil vapor intrusion (SVI) mitigation is currently being evaluated under a separate Additional SVI Work Plan. The additional soil vapor intrusion (SVI) sampling was completed on August 28, 2023. An Additional Soil Vapor Intrusion Report was prepared and submitted to the NYSDEC on November 2, 2023, which is currently under review. If additional monitoring indicates that SVE is required in the future, the shallow groundwater table and the clay-like soil will be design considerations.

9.3.3 Groundwater

To remediate the groundwater impacts, remedial technologies that address VOCs, PCBs, Lead, Chromium and Mercury are considered. Because of their affinity to absorb onto particulates, PCBs and Mercury could be the result of the turbidity of the MW-4 and MW-4FP samples where these compounds were found. Chromium and Lead may also bond with particles, or these can also be found in solution. The preferred presumptive remedies to be evaluated include:

- Removal and off-Site disposal of the contaminant mass representing the groundwater contamination
- Chemical augmentation for enhance bioremediation of VOCs in conjunction with source removal
- Monitored natural attenuation ("MNA") as an exit strategy for biodegradable groundwater plumes after the source area (Paint waste lagoon) has been remediated to the extent feasible. MNA is completed when the quality of the groundwater does not pose a risk to receptors hydraulically downgradient of the Site. MNA is a component of the remedial alternatives presented herein.

10.0 ALTERNATIVES ANALYSIS

In accordance with NYSDEC DER-10's guidelines, at a minimum, two alternatives, will be developed for a BCP Site if there is a proposal for restricted use, one alternative will achieve unrestricted use relative to soil impacts, without the use of institutional/engineering controls. The following section outlines the remedial alternatives that were evaluated. The alternatives and remedial approaches are discussed for the following media:

- Surface soil impacts.
- Subsurface soil impacts.
- Groundwater impacts.
- Soil vapor impacts.

The remedial approaches for each of the medium are summarized in the following paragraphs, and discussed in detail in the following sub-sections. Each of the approaches were developed to be consistent with the RAOs. The recommended remedial alternative is provided in Section 11.0 of this RAAR.

Surface Soil Alternatives:

- Alternative 1 – No Action.
- Alternative 2 – Track 4 Cleanup to Restricted Commercial Use SCOs. The Track 4 cleanup includes removing impacted soil that exceeds Restricted Commercial Use SCOs ("CSCOs"), backfilling with DER-10 approved fill materials to serve as a barrier, preparing a Site Management Plan (SMP), and placing institutional controls on the Site.
- Alternative 3 – Track 1 Cleanup to Unrestricted Use SCOs ("USCOs") using soil excavation and off-Site disposal.

Subsurface Soil Alternatives:

- Alternative 1 – No Action.
- Alternative 2 – Track 4 Subsurface Source Removal to CSCOs and Project-Specific Groundwater SCOs. Alternative 2 includes removal of paint waste lagoon residuals to meet CSCOs and Protection of Groundwater SCOs (GW SCOs) for Toluene, Ethylbenzene, Total Xylenes, Total PCBs, and Mercury, backfilling with DER-10 approved backfill and crushed stone, placement of an asphalt cap over the excavated area, maintaining the asphalt pavement outside the lagoon footprint, preparing a SMP, and

placing institutional controls on the Site. The protection of groundwater SCOs for Ethylbenzene, Toluene, Total Xylenes, Total PCBs, and Mercury are hereafter referred to as project-specific protection of groundwater SCOs (PSGW SCOs).

- Alternative 3 – Track 1 Cleanup to USCOs. Alternative 3 includes soil excavation and off-Site disposal to achieve USCOs.

Groundwater Alternatives:

- Alternative 1 – No Action
- Alternative 2 – Track 4 Subsurface Source Removal and Groundwater Monitoring. This alternative includes the following activities:
    - Removal of paint residuals and soil/fill exceeding CSCOs and PSGW SCOs within the footprint of the former paint waste lagoon and associated trench, and off-Site disposal of soil
    - Backfilling with DER-10 approved fill and crushed sone, restoring the surface of the excavation with 6" of asphalt cover to serve as a protective barrier, and maintaining the surrounding asphalt pavement
    - Preparing a SMP that includes periodic groundwater monitoring to document remedial effectiveness, and placing institutional controls on the Site
- Alternative 3 – Track 1 Source Removal, Enhanced Aerobic Biodegradation, and Groundwater Monitoring to Achieve TOGs Groundwater Standards.

  This alternative includes the following activities:
    - Removal of paint residuals and soil/fill exceeding USCOs and PSGW SCOs across the Site and off-Site disposal of soil
    - Treating groundwater and saturated soil with Regenisis™ Oxygen Release Compounds (ORC Advanced®) as a polishing technology to enhance aerobic degradation of VOCs
    - Backfilling with DER-10 approved fill material and crushed stone, restoring the surface of the excavation with 6" of asphalt cover to serve as a protective barrier, and maintaining the surrounding asphalt pavement
    - Preparation of a SMP that includes periodic groundwater monitoring to document groundwater quality, and potentially placing institutional controls on the Site

Soil Vapor Alternatives

- Alternative 1 – No Action.
- Alternative 2 – Periodic Monitoring: this alternative includes conducting periodic indoor air and soil vapor monitoring to confirm that existing indoor air quality continues to require only monitoring (i.e., not remediation), and preparing a SMP. If the building use changes (build out for office areas, changes with the building's heating system and use, changes from storage use to manufacturing, etc.) an indoor air quality analysis would be required.

- Alternative 3 – Installation of SSDS: Installation of soil vapor extraction points within and/or around an area of the existing warehouse at the Site.

10.1 Surface Soil Alternatives

10.1.1 Alternative 1 – No Action

Identification and Description

The No Action alternative is defined as conducting no additional remedial activities, monitoring, or the placement of institutional controls or engineering controls.

The No Action Alternative leaves the Site as it currently exists, with no restriction to access and no controls other than what is being enforced by the Town of Tonawanda, including, but not limited to operating permits, building/construction permits, zoning enforcement and compliance, building and fire safety inspections, etc. TSP would continue performing normal property maintenance. In general, this means the Site users will continue to actively use the Site as it currently is used. There is no reduction of toxicity, mobility, or volume of impacts present. The SCG's are not met, but in general, the public and the environment are protected from exposures to the soil because the property is mostly paved and in a commercial/industrial area, human activity is infrequent as the Site is primarily used for storage, and there is little soil/sediment runoff from the Site.

The capital cost of the no action alternative is $0.00. There would be no capital or long-term operation, maintenance, or monitoring costs associated with the no action alternative.

10.1.2 Alternative 2 – Track 4 Cleanup

Identification and Description

Alternative 2 for the surface soil area follows a Track 4 cleanup path by removing 1-foot of impacted soil to CSCO's and replacing it with up to 1-foot of DER-10 approved gravel consisting of virgin material from a permitted mine or quarry, which would constitute a protective barrier. Due to the proximity of the adjacent 84 Lumber warehouse to the north of the Site, using soil as a cover barrier is not recommended because of the challenges of maintaining a vegetative cover between the warehouse building and Site asphalt driveway. Further root systems from successional growth tree saplings and weed growth could jeopardize the integrity of the adjacent paved driveway and planned asphalt cover barrier over the former paint lagoon to the west. A geotextile fabric would be placed under the stone/gravel to serve as a demarcation layer and prevent the growth of unwanted vegetation adjacent to the asphalt cover.

Figure 13 shows the approximate area where the CSCOs exceedances of PAHs, and to a lesser extent, PCBs and metals that were found during the RI and SRI and where Alternative 2 would be implemented. For cost purposes, it is assumed 200 tons of PAH-impacted surface soils would be removed, including impacted soil adjacent to the 84 Lumber storage building (off-Site) and along the western Site boundary for disposal at a Part 360 permitted landfill facility as non-hazardous waste. A similar amount of DER-10 approved stone/gravel would be used to backfill the excavation. The alternative also assumes the adjacent property owners will provide access to conduct the remediation. A SMP will be prepared outline procedures for handling any future impacted materials, notifications of pending intrusive work and periodic inspections. Institutional controls will be placed to restrict the future use of the Site.

Overall Protection of Public Health and the Environment **–** This alternative meets NYSDEC requirements for a Track 4 Commercial cleanup and is protective of public health and the environment. The RAOs for the Site would be satisfied through the planned extent of remedial activities to include the removal, excavation, and off-Site disposal of soil/fill exceeding CSCOs in the former paint waste lagoon.

Compliance with SCGs **–** The planned remedial activities would need to be performed in accordance with applicable, relevant, and appropriate SCGs. Imported backfill material would need to meet backfill quality criteria per DER-10. Subgrade intrusive activities would necessitate preparation of and adherence to a community air monitoring plan in accordance with Appendices 1A and 1B of DER-10. The planned remedial actions are fully protective of public health and the environment and achieve all RAOs for the Site.

Long-Term Effectiveness and Permanence **–** Removal of the soil/fill exceeding CSCOs would provide for long-term effectiveness and permanence. The long-term effectiveness will be based on the maintenance of the cover system. The placement of the cover system will limit human exposure and environmental exposure related to runoff.

Reduction of Toxicity, Mobility, or Volume with Treatment **–** The alternative reduces the toxicity, mobility, and volume of contaminants on the Site. No treatment is planned as part of this alternative.

Short-Term Effectiveness **–** The short-term adverse impacts and risks to the community, workers, and environment during implementation of the Commercial Use alternative are not considered significant and are controllable.

During intrusive remedial activities air monitoring will be performed to assure conformance with community air monitoring action levels. The potential for chemical exposures and physical injuries are reduced through safe work practices; proper personal protection equipment; environmental monitoring; establishment of work zones and Site control; and appropriate decontamination procedures. The surface soil removal is planned to be completed within a one-week timeframe, limiting short- term adverse effects. Planned remedial activities will be performed in accordance with the approved Remediation Action Work Plan, including HASP and CAMP.

Implementation **–** No technical or administrative implementation issues are anticipated to be associated with this alternative. Though additional efforts would berequired based on the urban setting of the Site related to work scheduling and trucking related issues, compliance with HASP and construction work practices would be manageable.

Cost **–** The capital cost of implementing a Commercial Use (Track 4) alternative is estimated at approximately $460,646.00. This cost is inclusive of the Track 4 remedial costs for the removal, excavation, and off-Site disposal of soil/fill exceeding CSCOs in the former paint waste lagoon. Table 14 provides the costs associated with implementation of this alternative.

Community Acceptance **–** Community acceptance will be evaluated based on comments to be received from the public in response to Fact Sheets and other planned Citizen Participation activities.

10.1.3 Alternative 3 – Track 1 Cleanup

Identification and Description

Alternative 3 for surface soil area follows a Track 1 cleanup that requires removal of the impacted surface soil to USCOs. Although this meets RAOs for Public Health and Environmental Protection for this portion of the Site, it does not address other impacted areas of the Site such as the former paint lagoon.

Figure 14 shows the area Alternative 3 would be implemented. The Track 1 cleanup is similar to Alternative 2, but it is suspected more soil would need to be removed. An estimated 500 tons of soil will be removed to from the Site for off-Site disposal as non-hazardous waste and a similar amount of DER-10 approved gravel will be used to backfill the excavation. It is also assumed under this alternative that the adjacent property owners will be willing to provide access to conduct the remediation. Excavation adjacent to the 84 Lumber warehouse building could be hampered by the building's foundation. The depth of the excavation to achieve USCOs is expected to be approximately two feet based upon RI sampling data.

The cost for Alternative 3 is more than Alternative 2 because more soil is being removed. Other costs associated with this alternative are not included because this is a Track 1 cleanup; for example, a SMP is not needed, and Annual Inspections or Periodic Review would be unnecessary for the surface soil area alone. Other areas of Site impacts may require the SMP or institutional controls/engineering controls.

Overall Protection of Public Health and the Environment – Excavation and off- Site disposal to achieve USCOs would be protective of public health under any reuse scenario.

Compliance with SCGs – The Unrestricted Use alternative would be performed in accordance with applicable, relevant, and appropriate SCGs. Imported backfill material would need to meet backfill quality criteria per DER-10. Subgrade intrusive activities would necessitate preparation of and adherence to a community air monitoring plan in accordance with Appendices 1A and 1B of DER-10. The planned remedial actions are fully protective of public health and the environment and achieve RAOs for the Site.

Long-Term Effectiveness and Permanence – The Unrestricted Use alternative would achieve removal of all impacted soil/fill; therefore, the Unrestricted Use alternative would provide long-term effectiveness and permanence. Post-remedial monitoring and certifications would not be required.

Reduction of Toxicity, Mobility, or Volume with Treatment – Through removal of all impacted soil/fill, the Unrestricted Use alternative would permanently and significantly reduce the toxicity, mobility, and volume of on-Site contamination.

Short-Term Effectiveness – The principal advantage of a Track 1 cleanup to achieve USCOs is reliability of effectiveness in the long-term. The short-term adverse impacts and risks to the community, workers, and environment during implementation of this alternative are manageable. Site workers would be required to wear personal protective equipment (PPE) during excavation to prevent direct contact with soil/fill. CAMP monitoring and dust control methods would be required to limit the release of particulates during intrusive activities.

This alternative does have adverse short-term impacts, however, the RAOs would be achieved once the soil/fill is removed from the Site and backfill soils are in place (estimated at approximately one-week to achieve).

Implementation **–** Technical or administrative implementation issues are associated with this alternative are manageable. Given the urban setting of the Site, the additional truck traffic would require additional efforts related to work hour scheduling, noise, odor control, traffic restrictions, truck staging areas, and increased work duration.

Cost **–** The capital cost of implementing an Unrestricted Use (Track 1) alternative is estimated at approximately $1,924,880.00. This cost is inclusive of the Track 1 remedial costs for the removal, excavation and off-Site disposal of soil/fill exceeding USCOs in the former paint waste lagoon. Table 16 provides the costs associated with implementation of this alternative.

Community Acceptance **–** Community acceptance will be evaluated based on comments to be received from the public in response to Fact Sheets and other planned Citizen Participation activities.

10.2 Subsurface Soil Alternatives

10.2.1 Alternative 1 – No Action

Identification and Description

The No Action alternative is defined as conducting no additional remedial activities, monitoring, or the placement of institutional controls or engineering controls.

The No Action Alternative leaves the Site as it currently exists, with no restriction to access and no controls other than what is being enforced by the Town of Tonawanda. TSP would continue with normal property maintenance. In general, this means the Site users will continue to use the Site as it currently is used. There are no reductions of toxicity, mobility, or volume of impacts present. The SCG's are not met, but in general, the public is protected because there are no exposure to the subsurface soil. The environment is not improved because the contaminated soil remains, but there is no migration of the soil contaminants off-Site via groundwater migration.

The capital cost of the no action alternative is $0.00. There would be no capital or long-term operation, maintenance, or monitoring costs associated with the no action alternative.

10.2.2 Alternative 2 – Track 4 Subsurface Source Removal to CSCOs and PSGW SCOs

Identification and Description

Alternative 2 for the subsurface soil/fill area within the footprint the former paint waste lagoon and associated trench follows a Track 4 cleanup path. Under this alternative, the subsurface paint waste residuals and soil/fill exceeding CSCOs and PSGW SCOs within the former paint waste lagoon and trench would be removed, which will include:

- Excavation and off-Site disposal of paint waste residuals and impacted soil/fill exceeding Part 375 CSCOs and PSGW SCOs within an approximate 7,000 square foot area. The subsurface soil samples that exceeded either (or both) CSCOs and PSGW SCOs are shown on Table 5. Only four (4) locations (SB-2, SB-3, SB-5, and SB-7), all located within the suspected areas of the former waste lagoon and associated trench, exceeded these SCOs. The locations of SB-2, SB-3, SB-5, and SB-7 are shown on Figure 5.
- Collection of post-excavation confirmatory samples in accordance with the requirements of DER-10, Section 5.4.
- Management of on-Site excavation waters during intrusive activities.

- Importation of DER-10 approved soil, gravel, and asphalt paved protective barrier.
- Periodic groundwater monitoring to determine remedial effectiveness.
- Periodic air monitoring and management inside the Site building.

Based on the historic investigation results, paint waste residuals mixed with impacted soil/fill was primarily limited to loose fill immediately below the asphalt pavement to an average depth of four (4) feet within the former paint waste lagoon, but may be less or greater where heavily impacted material is observed. The primary COCs within the subsurface soil exceeding CSCOs and PSGW SCOs include PCBs, Ethylbenzene, Toluene, Xylenes, Mercury and Chromium (See Table 5). Approximately 750 tons of impacted soil/fill would require excavation and off-Site disposal to achieve CSCOs. An equivalent volume of DER-10 approved backfill would be required to restore the Site to grade, finished with approximately 7,000-sq. ft. of asphalt cover. Figure 13 provides the approximate footprint of the former lagoon and trench drain area, which was determined based upon historical aerial photography, geophysical study, and RI/SRI findings.

Focused excavation will be placed where the RI showed the greatest degree of impact, which includes SB-2, SB-7, MW-3 and MW-4. Expansion around these areas and or additional locations will be determined based on organic vapor readings using a PID and visual observances during excavation activity.

Based on soil boring and monitoring well logs from the RI, the depths of excavation could vary depending upon PID readings and observances during excavation activity. Confirmation soil sampling will be completed within the excavation of both the former paint waste lagoon and associated trench to demonstrate that the excavation has achieved CSCOs and PSGW SCOs, to the extent practicable. Confirmation sampling will follow the requirements described in DER-10, Section 5.4. The required quantity of sidewall and bottom confirmation samples will be based on the final dimensions of the excavation as described in Section 5.4(b)5 of DER 10. Areas within the Site boundary where confirmation sample laboratory results exceed protection of CSCOs and PSGW SCOs may require further excavation until sampling demonstrates compliance with the CSCOs and PSGW SCOs, or until further excavation is not feasible. As identified in DER-10, Section 5.4(b)2.i, additional excavation may not be required, and the remediation considered complete if the vast majority of confirmation samples indicate that the soil cleanup levels for the Site have been achieved and/or those samples that do not achieve the SCO exceed it by only a small amount.

An estimated 250 tons of waste is assumed to be hazardous, and for cost evaluation purposes will be disposed of as such. Based on the RI soil analysis, the remaining 500 tons may not be hazardous and could be disposed of at a Part 360 land disposal facility if the soils lack leachable characteristics as determined via Toxicity Characteristic Leachate Procedure ("TCLP") testing of the excavated stockpile, or the media does not demonstrate other EPA hazardous waste characteristics such as ignitability or corrosivity.

The surrounding pavement and concrete slab building will further negate any residual human health exposures to Site contaminants. A SMP will be prepared to outline procedures for the handling of any impacted materials, notifications of pending intrusive work, periodic sampling, and periodic inspections. In addition, to the SMP, Annual Inspections and Periodic Reviews would also be required. Institutional controls will be placed to restrict the future use of the Site.

Long-Term Effectiveness and Permanence **–** Removal of the paint waste impacted soil/fill exceeding CSCOs and PSGW SCOs would provide for long-term effectiveness and permanence. The placement of the cover system will limit human exposure and environmental exposure related to runoff. Potential installation of SSD systems in future buildings would mitigate potential vapor intrusion concerns, if necessary.

Reduction of Toxicity, Mobility, or Volume with Treatment **–** Alternative 2 reduces the toxicity, mobility and volume of soil contaminants on the Site to meet the CSCOs and PSGW SCOs. Provisions to assess potential need of SSDSs in any new buildings will be based on the outcome of planned IRMs. No treatment is planned as part of this alternative.

Short-Term Effectiveness **–** The short-term adverse impacts and risks to the community, workers, and environment during implementation of Alternative 2 are not considered significant and are controllable.

During intrusive remedial activities air monitoring will be performed to assure conformance with community air monitoring action levels. The potential for chemical exposures and physical injuries are reduced through safe work practices; proper personal protection equipment; environmental monitoring; establishment of work zones and Site control; and appropriate decontamination procedures. The remedial excavations are planned to be completed within a two-week timeframe, limiting short- term adverse effects. Planned remedial activities will be performed in accordance with the approved RAWP, including the HASP and CAMP. This alternative achieves the RAOs for the Site.

Implementation **–** No technical or administrative implementation issues are anticipated to be associated with this alternative. Though additional efforts would be required based on the urban setting of the Site related to work scheduling and trucking related issues, compliance with HASP and construction work practices would be manageable.

Cost **–**The capital cost of implementing a Commercial Use (Track 4) alternative is estimated at approximately $460,646.00. This cost is inclusive of the Track 4 remedial costs for the surface soil remedial alternative discussed in Section 10.1.2. Table 14 provides the costs associated with implementation of this alternative.

Community Acceptance **–** Community acceptance will be evaluated based on comments to be received from the public in response to Fact Sheets and other planned Citizen Participation activities.

10.2.3 Alternative 3 – Track 1 Cleanup to USCOs

Identification and Description

An Unrestricted Use alternative would necessitate remediation of on-Site soil/fill that exceeds USCOs. For this alternative, excavation and off-Site disposal of impacted soil/fill is generally regarded as the most applicable remedial measure, because institutional controls cannot be used to supplement the remedy. Figure 14 shows the area where soil contamination is expected to exceed the USCO and where Alternative 3 would be implemented. Additional sampling and soil screening with a PID during remedial activity will be conducted to determine the full extent of soil removal. Although samples from soil borings suggest that some soil may be a hazardous waste, further analysis using the Toxicity Characteristic Leachate Procedure ("TCLP") and other parameters will need to be conducted to ascertain whether the soils can be disposed of at a Part 360 permitted landfill facility. The implementation of the alternative also assumes a temporary

Site fence will be needed to control the access to the excavation, since the Site is still an active commercial property.

On-Site groundwater impacts are mainly attributable to the presence of the paint waste residuals and soil/fill within the former paint waste lagoon. This alternative assumes that groundwater recovery, treatment and disposal would be required due to the deeper excavation depths.

After removal of the paint waste source area, soil exceeding USCOs and proper handling and pre-treatment of excavation waters, it is expected that periodic groundwater monitoring over a three to five year period would be required to confirm remedial effectiveness.

Exceedances of the USCOs and/or field evidence of impacts were observed to 15 to 17 ft bgs with an average depth of approximately 8 to 10 ft. bgs. In total, approximately 4,600 CY of soil/fill would require excavation and off-Site disposal. An equivalent volume of DER-10 compliant backfill would be required to restore the Site.

Overall Protection of Public Health and the Environment – Excavation and off- Site disposal to achieve USCOs would be protective of public health under any reuse scenario.

Compliance with SCGs – The Unrestricted Use alternative would be performed in accordance with applicable, relevant, and appropriate SCGs. Imported backfill material would need to meet backfill quality criteria per DER-10. Subgrade intrusive activities would necessitate preparation of and adherence to a community air monitoring plan in accordance with Appendices 1A and 1B of DER-10. The planned remedial actions are fully protective of public health and the environment and achieve all RAOs for the Site.

Long-Term Effectiveness and Permanence – The Unrestricted Use alternative would achieve removal of all residual impacted soil/fill; therefore, the Unrestricted Use alternative would provide long-term effectiveness and permanence. Post-remedial monitoring and certifications would not be required.

Reduction of Toxicity, Mobility, or Volume with Treatment – Through removal of all impacted soil/fill, the Unrestricted Use alternative would permanently and significantly reduce the toxicity, mobility, and volume of on-Site contamination.

Short-Term Effectiveness – The principal advantage of a large-scale excavation to achieve USCOs is reliability of effectiveness in the long-term. The short-term adverse impacts and risks to the community, workers, and environment during implementation of this alternative are manageable. Site workers would be required to wear personal protective equipment (PPE) during excavation to prevent direct contact with soil/fill. CAMP monitoring and dust control methods would be required to limit the release of particulates during intrusive activities.

This alternative does have adverse short-term impacts, however, the RAOs would be achieved once the soil/fill is removed from the Site and backfill soils are in place (estimated at approximately 4-5 weeks to achieve).

Implementation – Technical or administrative implementation issues are associated with this alternative are manageable. Given the urban setting of the Site, the additional truck traffic would require additional efforts related to work hour scheduling, noise, odor control, traffic restrictions, truck staging areas, and increased work duration.

Cost **–** The capital cost of implementing an Unrestricted Use cleanup alternative is estimated at approximately $1,924,880.00. This cost is inclusive of the Track 1 remedial costs for the surface soil remedial approach discussed in Section 10.1.3. Although not expected, Alternative 3 includes costs for the handling, treatment, and disposal of groundwater if necessary. Table 16 provides the costs associated with implementation of this alternative.

Community Acceptance **–** Community acceptance will be evaluated based on comments to be received from the public in response to Fact Sheets and other planned Citizen Participation activities.

10.3 Groundwater Alternatives

10.3.1 Alternative 1 – No Action

Identification and Description

The No Action Alternative is defined as conducting no additional remedial activities, monitoring or the placement of institutional controls or engineering controls.

Screening and Analysis

The No Action Alternative leaves the Site in its current condition, with no restriction to access and no controls other than what is being enforced by the Town of Tonawanda. There is no reduction of the toxicity, mobility, or volume of impacts present except those intrinsic reductions caused by natural bacteria and attenuation due to groundwater flow and chemical interactions with the natural soils. The SCGs are not met, and the general public and the environment are not protected.

The capital cost of the no action alternative is $0.00. There would be no capital or long-term operation, maintenance, or monitoring costs associated with the no action alternative.

10.3.2 Alternative 2 – Track 4 Subsurface Source Removal and Groundwater Monitoring

Identification and Description

On-Site groundwater impacts are primarily attributed to the presence of paint waste residuals, paint waste impacted soil/fill, and the presence of free product observed in MW-4 within the paint waste lagoon. Alternative 2 includes excavation of impacted soil focusing on those areas exceeding the CSCOs and/or PSGW SCOs that primarily exist within the former paint waste lagoon and associated trench. Subsurface Soil Impacts - Alternative 2, described in Section 10.2.2 would be implemented, and is considered for groundwater because reducing or eliminating the contaminant mass representing the source of the groundwater contamination and soil/fill exceeding the GWSCOs is an effective approach for improving groundwater quality. Based on the low volume and lack of transmissivity of groundwater at the Site, it is expected that impacted perched water encountered during excavation activity will be controlled by co-mingling the water into the excavated soil without the risk of exceeding moisture percentage thresholds imposed by the disposal facility. Periodic groundwater monitoring would be required until reductions in monitoring frequency are approved by the NYSDEC. A SMP would be prepared for the Site describing the monitoring requirements and institutional controls that would be used to control the Site activities and future use of the groundwater.

To monitor the groundwater conditions, it is anticipated that on-Site monitoring wells and the one off-Site monitoring well (MW-1) would be sampled for VOCs, PCBs, PAHs, and metals, in addition to natural attenuation parameters. The SMP would define the sampling requirements. Periodic groundwater monitoring would be required until reductions in monitoring frequency is approved by the NYSDEC. For costing purposes, an estimated two years of quarterly groundwater monitoring will be required by the SMP. Figure 13 shows the approximate extent of source removal for improving groundwater quality. Groundwater monitoring wells will be replaced in-kind if damaged or removed during remedial activities.

Overall Protection of Public Health and the Environment – Excavation and off-Site disposal of the source materials to improve groundwater quality, along with implementation of periodic groundwater monitoring, preparation of a SMP, and institutional controls would be protective of public health.

Compliance with SCGs – A Track 4 Commercial Use Cleanup alternative would be performed in accordance with applicable, relevant, and appropriate SCGs, as described above. Imported backfill material would be required to meet backfill quality criteria per DER-10. Subgrade intrusive activities would necessitate preparation of and adherence to a community air monitoring plan in accordance with Appendices 1A and 1B of DER-10. The planned remedial actions are fully protective of public health and the environment and achieve all RAOs for the Site.

Long-Term Effectiveness and Permanence – Removal of the paint waste impacted soil/fill as a means to improve groundwater quality would provide for long-term effectiveness and permanence. As groundwater responds to the source removal and treatment, groundwater quality would improve over the long-term. The placement of the cover system will limit human exposure and environmental exposure related to dissolve phase contaminant migration to groundwater. Periodic groundwater monitoring after source removal should verify that contaminant concentrations are on a downward trend.

Reduction of Toxicity, Mobility, or Volume with Treatment – Through removal of the paint residuals, impacted soil/fill, and free product observed in MW-4 the source removal alternative would permanently and significantly reduce the toxicity, mobility, and volume of on-Site groundwater contamination.

Short-Term Effectiveness – The short-term adverse impacts and risks to the community, workers, and environment during implementation of this alternative are not considered significant due to the expected low volume of water requiring handling during excavation activities. The remedial excavation can be completed within a two-week timeframe, limiting short-term adverse effects.

During intrusive remedial activities air monitoring will be performed to assure conformance with community air monitoring action levels. The potential for chemical exposures and physical injuries are reduced through safe work practices; proper personal protection equipment; environmental monitoring; establishment of work zones and Site control; and appropriate decontamination procedures. The remedial excavations are planned to be completed within three to four-week timeframe, limiting short-term adverse effects. Planned remedial activities will be performed in accordance with the approved RAWP, including the HASP and CAMP. This alternative achieves the RAOs for the Site.

Implementation **–** No technical or administrative implementation issues are anticipated to be associated with this alternative. Though additional efforts would be required based on the urban setting of the Site related to work scheduling and trucking related issues, compliance with HASP and construction work practices would be manageable.

Cost **–** The capital cost of implementing a Commercial Use (Track 4) alternative is estimated at approximately $460,646.00. This cost is inclusive of the Track 4 remedial costs for the surface soil remedial approach discussed in Section 10.1.2. Table 14 provides the costs associated with implementation of this alternative.

Community Acceptance **–** Community acceptance will be evaluated based on comments to be received from the public in response to Fact Sheets and other planned Citizen Participation activities.

10.3.3 Alternative 3 – Track 1 Source Removal, Enhanced Aerobic Biodegradation, and Groundwater Monitoring to Achieve TOGs Groundwater Standards

Identification and Description

Alternative 3 includes removal of all the paint waste residuals and soil/fill that exceed USCOs across the Site. The subsurface soil samples that exceeded the USCOs are included in Table 5b. ORC application would be applied to enhance aerobic biodegradation and have a positive effect on groundwater. ORC would be applied using either an excavator to mix powdered amendments or a liquid solution would be applied in select locations along the floor of the excavation. The estimated excavation limits to achieve groundwater Alternative 3 are shown on Figure 14.

The extent of the excavation is anticipated to be completed where the subsurface soil data showed exceedances of USCOs, which includes the areas of SB-2, SB-3, SB-4, SB-5, SB-6, SB-7, MW-3 and MW-4. Excavation expansion around these areas and/or additional locations will be determined based on organic vapor readings using a PID and visual observances during excavation activity.

Based on soil boring and monitoring well logs, it is expected the depths of excavation and ORC treatment intervals would vary depending upon PID levels and observations during excavation activity. As described in Section 10.2.2, confirmation sidewall and bottom sampling would be completed to demonstrate that the excavation has achieved the USCOs, to the extent practicable. Confirmation sampling would follow the requirements described in DER-10, Section 5.4. If the sample laboratory results exceed the URSCOs, further excavation may be required until additional confirmatory sampling has achieved compliance with the remedial objectives or until further excavation is not feasible. The required quantity of sidewall and bottom confirmation samples would be based on the final dimensions of the excavation as described in DER Section 5.4(b)5. As identified in DER-10, Section 5.4(b)2.i, additional excavation may not be required, and the remediation considered complete if the vast majority of confirmation samples indicate that the soil cleanup levels for the Site have been achieved and/or those samples that do not achieve the SCO exceed it by only a small amount.

An estimated 8,000 tons of paint residuals and soil/fill would be removed for off-Site disposal. The waste soil/fill would be from the intervals identified by PID levels and observations such as visible wastes during the excavation activities. An estimated 250 tons of waste is assumed to be hazardous, and for cost evaluation purposes will be disposed of as such. The remaining excavated soil is assumed to be non-hazardous and will be disposed of at a Part 360 land disposal

facility as outlined in Section 10.2.2. This determination will be dependent upon the results of the TCLP testing and other parameters to determine hazardous waste characteristics.

Regenesis® ORC Advanced™ has been evaluated for groundwater and saturated soil treatment using a combined weight of 4,400 pounds of treatment chemical applied over an approximately 8,000 sq. ft. area. It is anticipated that the groundwater quality would be monitored from monitoring wells identified in the SMP for VOCs, PAHs, PCBs, and metals, in addition to natural attenuation parameters for 2 years following treatment to determine if the polishing treatment was successful and if additional applications are needed. The actual monitoring requirements would be defined in the SMP. ORC Advance specifically targets petroleum hydrocarbons, oxygenates, PAHs and some chlorinated solvents. It is assumed when the COCs are lowered, any remaining metals and PCBs in the soil and groundwater will decline over time.

Planned remedial activities will be performed in accordance with the approved RAWP, including the HASP and CAMP. A groundwater monitoring plan will be presented in the SMP to manage and monitor conditions.

Overall Protection of Public Health and the Environment **–** Excavation and off- Site disposal of the all material above USCOs and ORC treatment and monitoring of groundwater would achieve the RAOs for both Public Health and Environmental Protection. During intrusive remedial activities air monitoring would be performed to assure conformance with community air monitoring action levels. The potential for chemical exposures and physical injuries are reduced through safe work practices; proper personal protection equipment; environmental monitoring; establishment of work zones and Site control; and appropriate decontamination procedures. The implementation of periodic groundwater monitoring, a SMP, and institutional controls would be protective of public health.

Compliance with SCGs **–** Alternative 3 would be performed in accordance with applicable, relevant, and appropriate SCGs. Imported backfill material would be required to meet backfill quality criteria per DER-10. Subgrade intrusive activities would necessitate preparation of and adherence to a community air monitoring plan in accordance with Appendices 1A and 1B of DER-10. This alternative is readily implemented, and the planned removal and chemical treatment actions are fully protective of public health and the environment and achieve all RAOs for the Site.

Long-Term Effectiveness and Permanence **–** Removal of all of the Site soil above USCGs with an application of ORC as a polishing treatment to treat any residual impacts in groundwater and saturated soil provides long-term effectiveness and permanence. As groundwater responds to the source removal and ORC treatment, groundwater quality would improve. ORC treatment is limited to COCs that respond to aerobic bioremediation, and given the stiff native clays underlying and surrounding the loose lagoon soil, it is unlikely ORC treatment would provide remedial effectiveness beyond the footprint of the application. In addition, the ORC application as a stand-alone alternative would not provide long-term effectiveness and permanence for the treatment of metals and PCBs unless source removal is undertaken.

Two years of periodic groundwater monitoring (to be determined during preparation of the SMP) should verify that contaminant concentrations are on a downward trend. Long-term goals will be met by the reduction of groundwater impacts to TOGS levels or at levels NYSDEC may find acceptable for closure.

Reduction of Toxicity, Mobility, or Volume with Treatment **–** Through removal of the paint residuals, impacted soil/fill, and free product observed in MW-4, the source removal would permanently and significantly reduce the toxicity, mobility, and volume of on-Site groundwater contamination. It is not anticipated that application of ORC as a polishing treatment once the source material has been removed would significantly increase the reduction of toxicity, mobility, and volume of impacts.

Short-Term Effectiveness **–** The short-term adverse impacts and risks to the community, workers, and environment during implementation of this alternative are not considered significant. During intrusive remedial activities air monitoring will be performed to assure conformance with community air monitoring action levels. The potential for chemical exposures and physical injuries are reduced through safe work practices; proper personal protection equipment; environmental monitoring; establishment of work zones and Site control; and appropriate decontamination procedures. The remedial excavations are planned to be completed within a four-week timeframe, limiting short-term adverse effects. Planned remedial activities will be performed in accordance with the approved RAWP, including the HASP and CAMP. The remedial excavation and ORC application can be completed within a two-week timeframe, limiting short-term adverse effects.

The excavation and ORC treatment effects can be realized relatively rapidly making short-term goals of implementation and seeing a reduction in impacts occur in a matter of months.

Implementation **–** No technical or administrative implementation issues are anticipated to be associated with this alternative. Though additional efforts would be required based on the urban setting of the Site related to work scheduling and trucking related issues, compliance with HASP and construction work practices would be manageable.

Cost **–** The capital cost of implementing a Track 1 Subsurface Source Removal, application of ORC, and groundwater monitoring alternative is estimated at approximately $1,275,100. This cost is inclusive of the Track 1 remedial activities for the surface soil remedial approach discussed in Section 10.1.2. Table 15 provides the costs associated with implementation of this alternative.

Community Acceptance **–** Community acceptance will be evaluated based on comments to be received from the public in response to Fact Sheets and other planned Citizen Participation activities.

10.4 Soil Vapor Mitigation

10.4.1 Alternative 1 – No Action

Identification and Description

The No Action Alternative is defined as conducting no additional remedial activities, monitoring, or the placement of institutional controls or engineering controls.

The No Action Alternative leaves the Site building and paved parcel as it currently resides, with no restriction to access and no controls other than what is being enforced by the Town of Tonawanda. TSP would continue to perform building and property maintenance. In general, this means the tenants will continue to actively use the building and property. While based on the most recent indoor air sampling the NYSDOH SVI Guidance indicates only monitoring is required, there would be no reduction of toxicity, mobility, or volume of impacts present in soil gas, and the general public and the environment are not protected. Based on previous indoor air

quality and sub-slab soil vapor sampling conducted during the RI and Supplemental RI when a previous furniture restoration tenant occupied a portion of the facility, monitoring and possible future mitigation was driven by the concentration of TCE detected in the indoor air during the RI and Methylene Chloride detected in the indoor air during the SRI, and not the presence VOCs in the sub-slab environment.

The capital cost of the no action alternative is $0.00. There would be no capital or long-term operation, maintenance, or monitoring costs associated with the no action alternative.

10.4.2 Alternative 2 – Periodic Monitoring

Identification and Description

The Periodic Monitoring Alternative is an active management program where TSP will monitor the indoor air quality while the Site building spaces are used for storage/warehousing and office space. As presented in Section 9.3.2, because the quality of indoor air was believed to historically be affected by tenants, the lease agreements for future tenants will be amended to include housekeeping requirements to insure they practice proper housekeeping, including requirements for proper handling, storage, and disposal of empty and/or expired products. Indoor air quality will be verified annually during the heating season (generally expected to be from November 15th to March 31st) by TSP. Additionally, recent indoor air quality sampling compared to the NYSDOH SVI Guidance indicated that only monitoring is currently required. The NYSDEC will be notified a minimum of 7 days in advance of the field activities, per the BCA. It is anticipated that one outdoor/ambient air sample and a minimum of two indoor air samples will be collected for laboratory analysis of VOCs. The quantity and locations of samples will be evaluated during preparation of the SMP. At a minimum, one indoor air sample will be collected from within the Site portion of the warehouse building and another sample collected from within in the off-Site portion of the warehouse. Sample results will be compared to the NYSDOH SVI guidelines. Annual air sampling will be conducted for a period of three years to confirm indoor air quality. After the three-year period, an evaluation of the need for additional future sampling will be conducted. The actual number, locations, and sampling frequency requirements will be specified in the Site SMP.

The Active Management and Monitoring Alternative leaves the building as it currently is used with no restriction to access. An engineering control consisting of an upgraded wall mounted powered ventilation in the occupied area will be installed. Since COCs will remain on the Site, a SMP would be prepared that includes an Operation and Maintenance Plan ("OMP") and institutional controls that would be required to manage building use and Site activities.

The SMP and OMP would provide procedures in the event there is a building change, the indoor air quality degrades, or the soil is disturbed as a result of intrusive work. The plan would also put into place owner responsibilities and agency notifications if there is a disturbance of the soil or if there is a plan to change the use of the Site (change in building use, further development, building renovation, etc.).

The SMP would actively manage the warehouse building in its entirety and document any changes of occupancy and use during annual Periodic Reviews.

If the use of the warehouse building changes, the management program will be re-evaluated. Based on the re-evaluation, managed monitoring will either continue or mitigation will be implemented.

There is no reduction of the toxicity, mobility, or volume of impacts and generally the SCGs are not met but maintained within the unoccupied building in regard to indoor air; thus, protecting the general public where they could potentially come into contact with contaminants.

Short- and long-term goals for effectiveness (meeting the SCGs for indoor air) are met because there are no receptors to be impacted; however, the potential remains for vapor intrusion to occur until soil and groundwater are remediated. The alternative will be accepted by the community since the community and Site occupants will be protected.

The costs to implement active management and monitoring are incorporated into the remedial Track 4 and Track 1 cost Tables.

10.4.3 Alternative 3 – Installation of SSDS

Identification and Description

The Installation of SSDS alternative provides an active remediation system where TSP would install soil vapor extraction points within and/or around the Site's warehouse area. The quantity, locations, and construction details of the vapor extraction points would be identified in the RAWP. Operation and maintenance of the SSDS would be conducted by TSP. Indoor air would be monitored on a schedule included in the SMP developed for the Site.

Installation and operation of a SSDS in the Site's warehouse area is not considered a technically feasible strategy for the following reasons:

- The shallow depth to groundwater and presence of perched groundwater would present operational issues for extraction of soil vapor
- As presented in Section 4.2.6, a furniture refinishing business is the most probable source of the presence of any impacts to indoor air
- The lease for the furniture refinishing business has not been renewed and they are no longer operating at the Site

However, a site visit conducted in March 2023 indicated that the use of a portion of the on-Site building space had changed. Therefore, Alternative 3 will be evaluated as a component of the remedial alternatives during preparation of the RAAR.

11.0 RECOMMENDED REMEDIAL ALTERNATIVE

Based on the various remedial approaches detailed in Section 10.0, a Track 4 Commercial Use cleanup as described in Sections 10.1.2, 10.2.2, and 10.3.2 involving surface soil removal and subsurface source removal of paint waste residuals and soil/fill to CSCOs and PSGW SCOs, and perched water within the former paint waste lagoon is fully protective of the public health and the environment. Additionally, active management and monitoring of indoor air quality as described in Section 10.4.2 is protective of public health.

A Track 1 cleanup of groundwater to TOGS groundwater standards is not considered feasible because:

- ORC will not remediate soil and groundwater contaminated by PCBs and metals.
- The cost of ORC application.

The components and details of the remedial approach will be described in an approved RAWP. In summary, the Track 4 cleanup will involve:

- Excavation and off-Site disposal of unpaved surface soil exceeding Part 375 CSCOs along the northern and western Site boundary.
- Excavation and off-Site disposal of paint waste residuals and soils/fill exceeding Part 375 CSCO and PSGW SCOs within the former paint waste lagoon and associated trench that are the source of impacts to groundwater.
- Removal of impacted perched groundwater and free product that is at or near the surface in the area of MW-4 via co-mingling during the excavation of the lagoon media.
- Providing a cover barrier of DER-10 approved fill over the surface soil and paint waste lagoon/trench excavation. Restore lagoon excavation/trench area with asphalt cover.
- Implement groundwater MNA monitoring and analytical sampling to document remedial effectiveness.
- Institutional controls will be implemented to control the Site activities and prevent the future use of groundwater at the Site.
- Implement active management, and periodic indoor air monitoring while the Site building spaces are used for occupied storage/warehousing.
- Preparation of a SMP for the Site to describe sampling, monitoring, and inspection requirements and frequency.

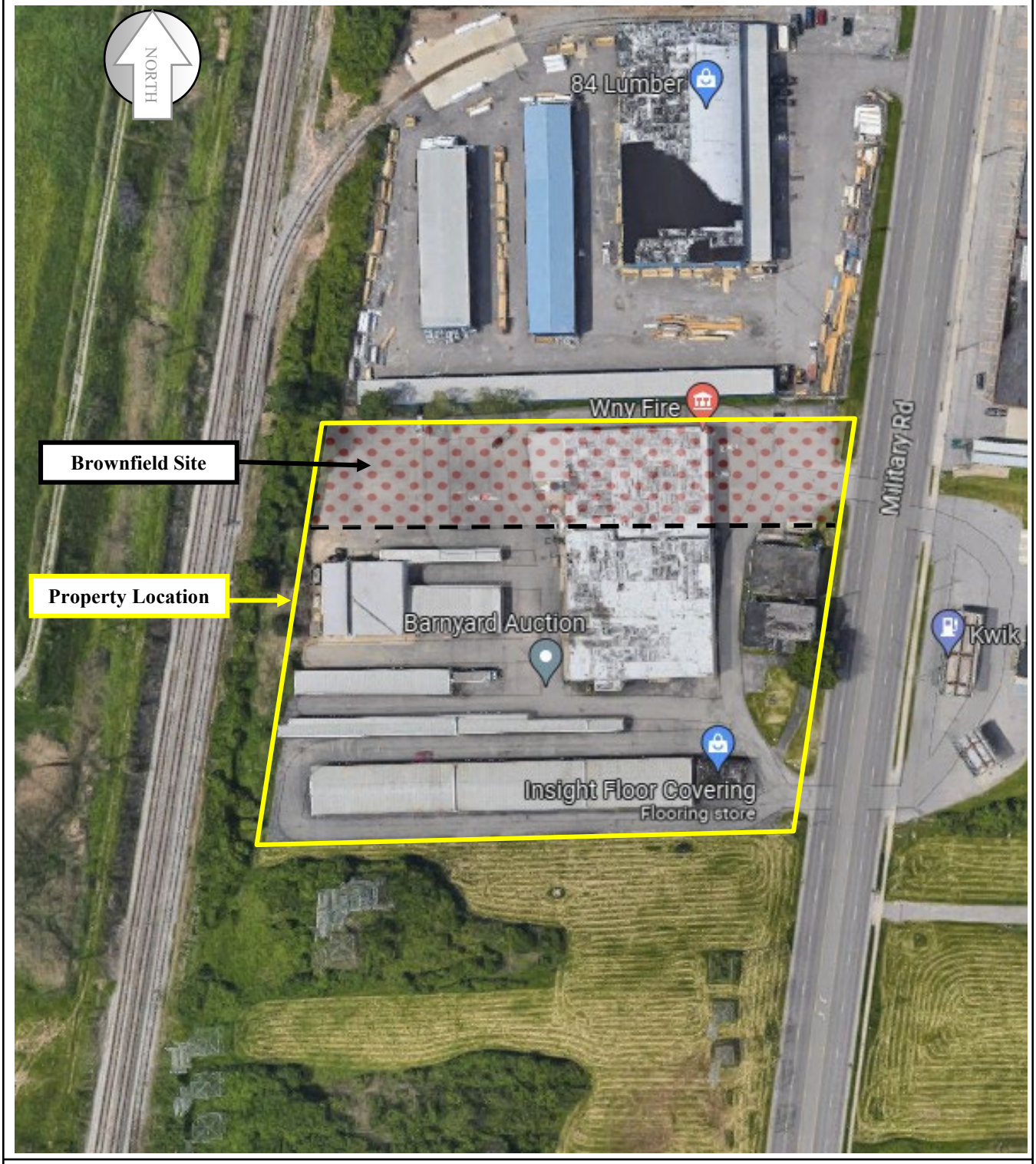
RI FIGURES



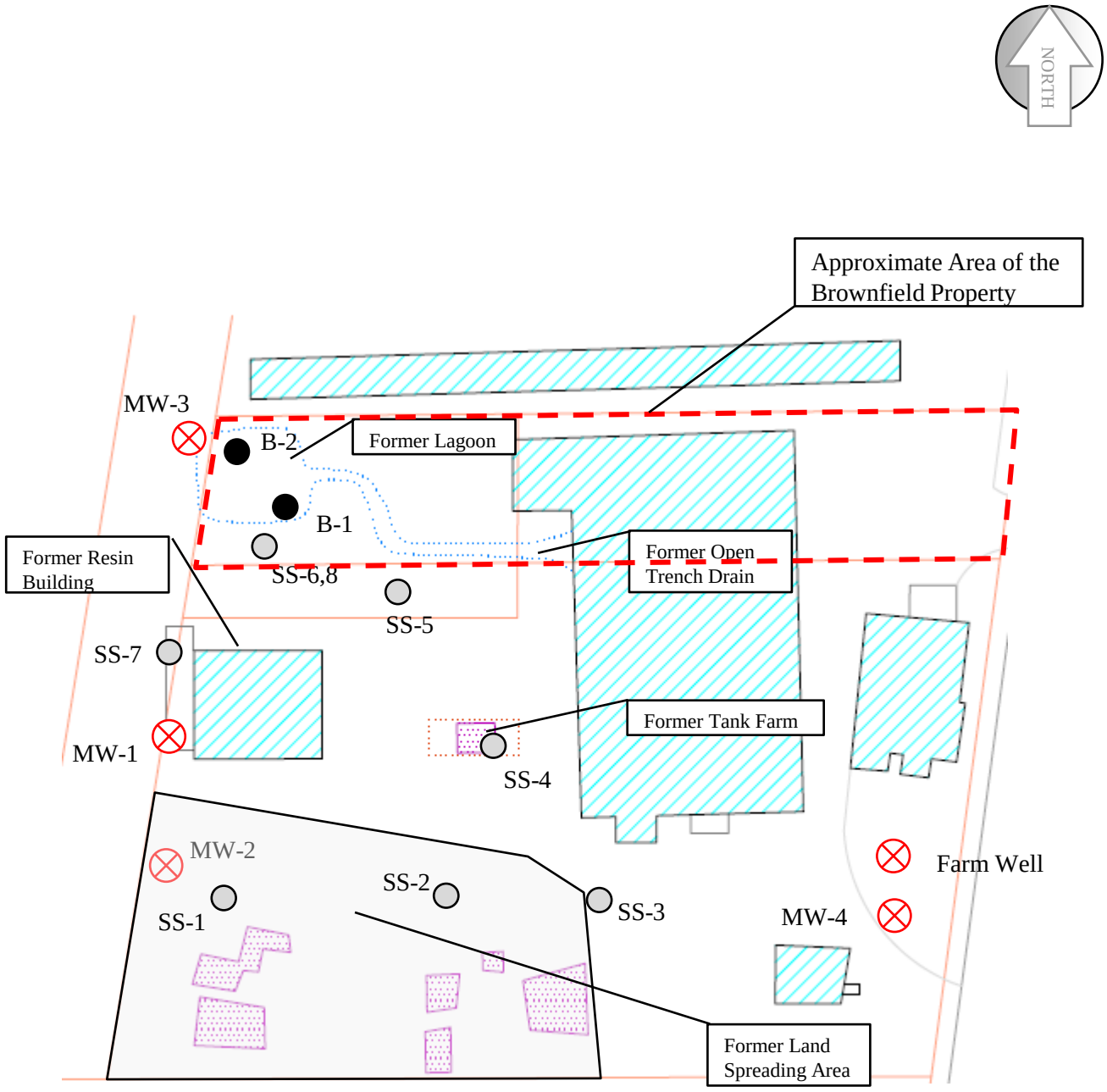
Title	Site Location 2266 and 2268 Military Road Tonawanda, New York
Prepared For	Tonawanda Storage Properties LLC 2600 Innovation Square, 100 S. Clinton Avenue Rochester, New York

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Project	1077.003
Date	3/11/2020
Scale	Not to Scale
Drawn	PVS
Checked	MPR
File Name	Site Location
Figure	1



Title: Site Plan 2266 and 2268 Military Road Tonawanda, New York	MARSH ENGINEERING D.P.C.	Project: 1077.003 Date: 8/14/2023 Scale: Not to Scale	Drawn: SF Checked: BWA File Name: Site Map	Figure: 2
Prepared For: Tonawanda Storage Properties LLC 2600 Innovation Square, 100 S. Clinton Ave. Rochester, New York				



⊗ 1993 MW-1 NYSDEC Monitoring Well

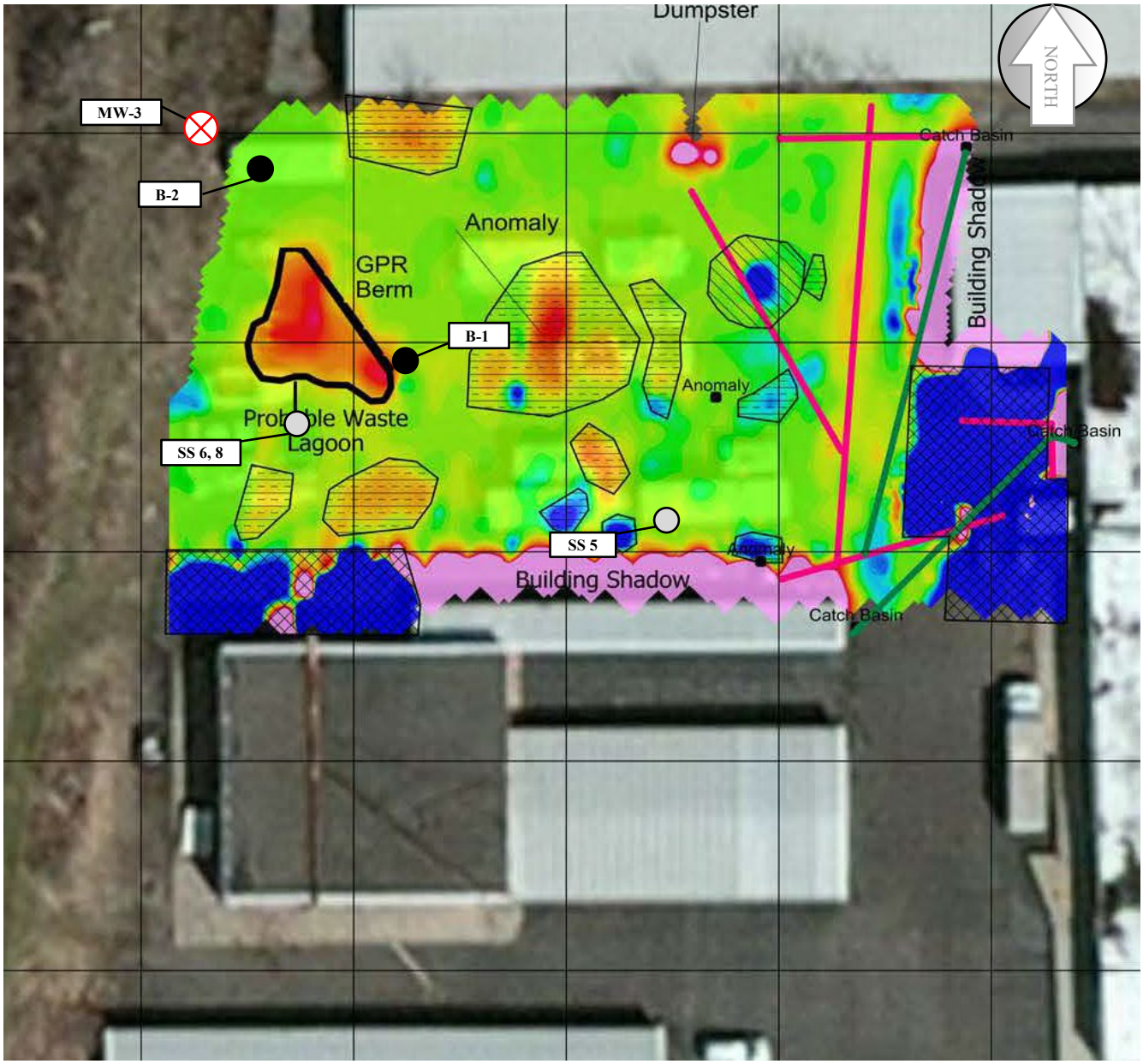
○ 1993 SS-1 NYSDEC Surface Soil Sampling Location

● 1993 B-1 NYSDEC Soil Boring Sampling Location

Title	1993 NYSDEC Sample Locations 2266 and 2268 Military Road Tonawanda, New York
Prepared For	Tonawanda Storage Properties, LLC 2600 Innovation Square, 100 S. Clinton Avenue Rochester, New York

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Project	235.198A
Date	3/11/2020
Scale	Not to Scale
Drawn	PVS
Checked	MPR
File Name	1993 Sample Locations
Figure	3



Geophysical results done by Groundwater and Environmental Services and Applus RTD for NYSDEC June 22, 2017.
Geophysical results are an overlay to a NYSDEC site sketch showing sampling locations.

1993 Approx. Location of NYSDEC Monitoring Well
1993 Approx. Location of NYSDEC Surface Soil Sampling Location
1993 Approx. Location of NYSDEC Soil Boring Sampling Location

LEGEND
Utilities
Unknown
Sewers and Drain Lines
Reinforced Concrete Pad
Buried Metal Object
Buried Metallic Debris

-44 -31 -18 -5 8 14 27 40 53 65 78 91 104 123 142 162 181
Conductivity Component
mS/ft

Title	2017 Geophysical Survey 2266 and 2268 Military Road Tonawanda, New York
Prepared For	Tonawanda Storage Properties LLC 2600 Innovation Square, 100 S. Clinton Avenue Rochester, New York

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Project	1077.003
Date	3/11/2020
Scale	Not to Scale
Drawn	PVS
Checked	MPR
File Name	2017 Geophysical Survey
Figure	4

KEY
- RI Soil Boring Location
- RI Surface Soil Location
- RI Monitoring Well Location
- RI Air Sampling Location
- Supplemental RI Surface Soil Sample Location
- Supplemental RI Surface Soil Sample Location
- BCP Site Boundary

NORTH

Former Paint Lagoon
Depicted From 1972
Aerial Photograph

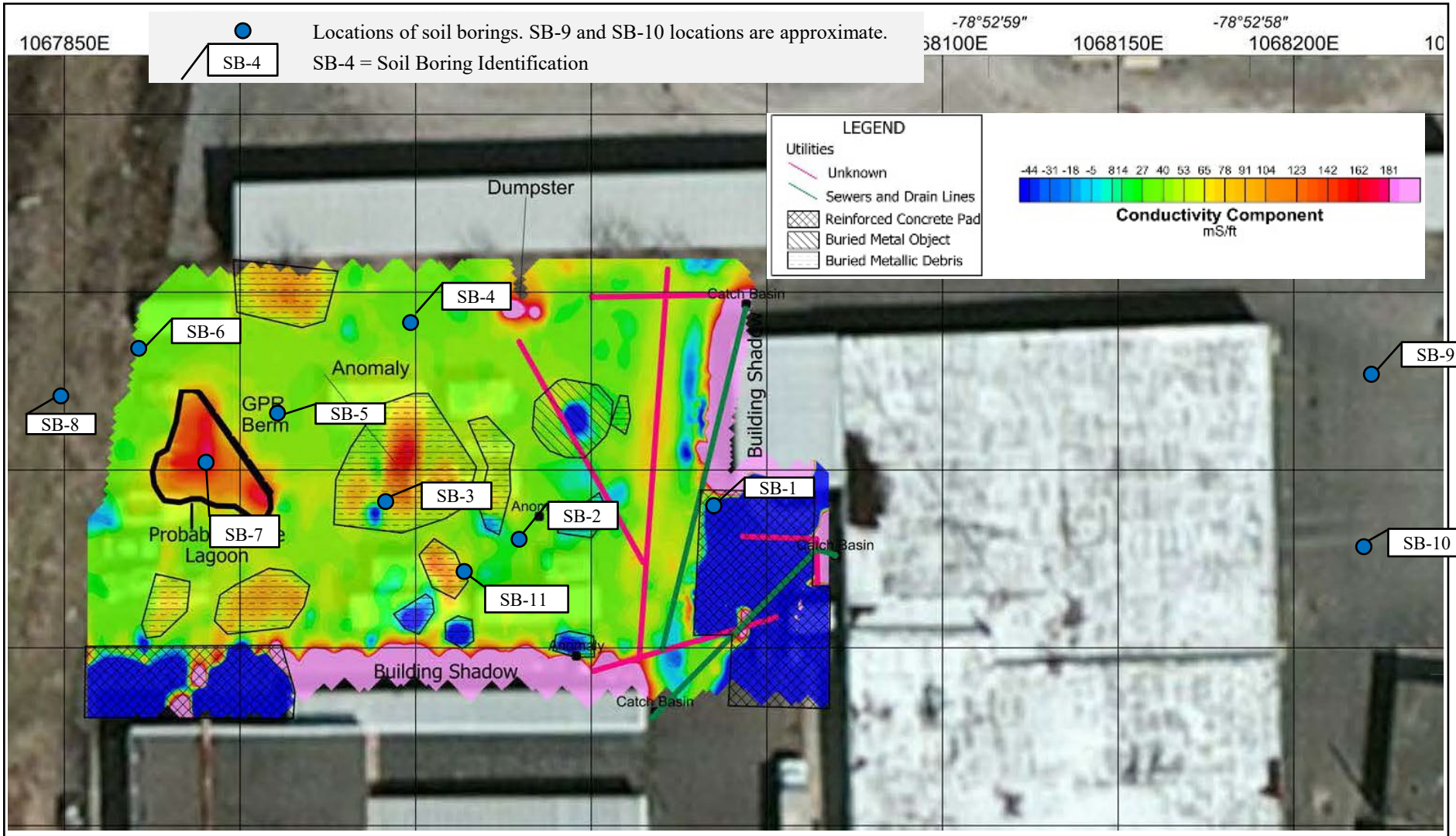
84 Properties, LLC Warehouse

SSB-3
SSA-4
SS-3
SSB-4
SSA-5
SSA-6
SS-4
SS-2
SSA-3
SV-2
SSB-2
SSA-2
MW2
SB-4
SB-9
SB-8/MW1
SB-6
SB-5
SS/IA-1
Metal
Bldg.
Block Building
No. 2266
Asphalt Surface
SV-1
SS/IA-2
SSA-1
SB-7
MW3
SSB-1
SB-3
SB-2
SB-1
SS-1
MW4
SB-11
SB-10
ACM Northfield CR #3, LLC
SS/IA-1
SS/IA-2
Storage Unit Building
Building
Building
Block Building
No. 2250
Building
Building
2-Story
Building
MW5

Title:	RI and SRI Sample Locations 2266 and 2268 Military Road Tonawanda, New York
Prepared For:	Tonawanda Storage Properties LLC 1400 Crossroads Building 2 State Street, Rochester, New York

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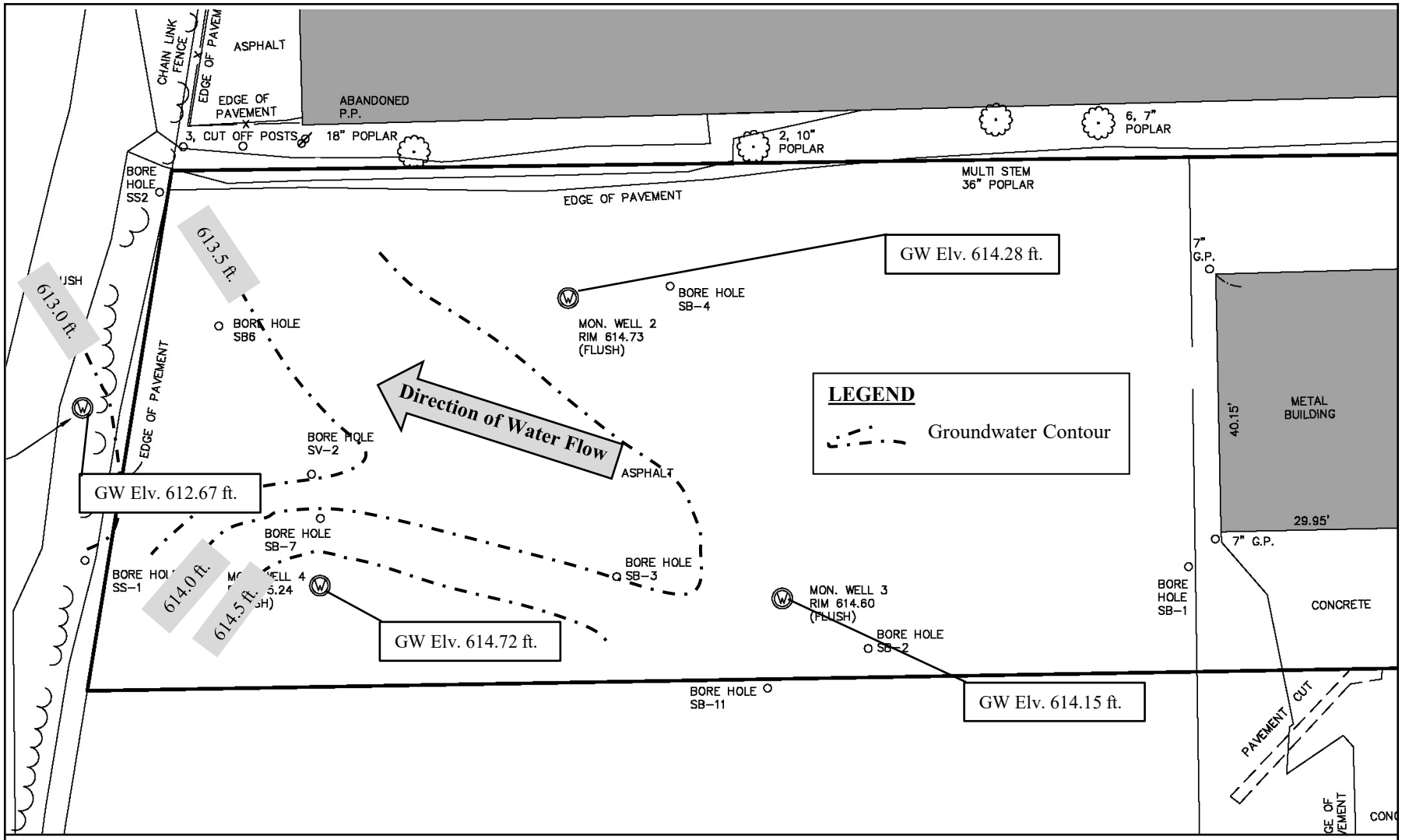
Project	235.198.A
Date	10/12/2022
Scale	Not to Scale
Drawn	FRT
Checked	MPR
File Name	Sample Locations
Figure	5



Title	RI Soil Boring Locations with Geophysical Overlay 2266 and 2268 Military Road Tonawanda, New York
Prepared For	Tonawanda Storage Properties LLC 2600 Innovation Square, 100 S. Clinton Avenue Rochester, New York

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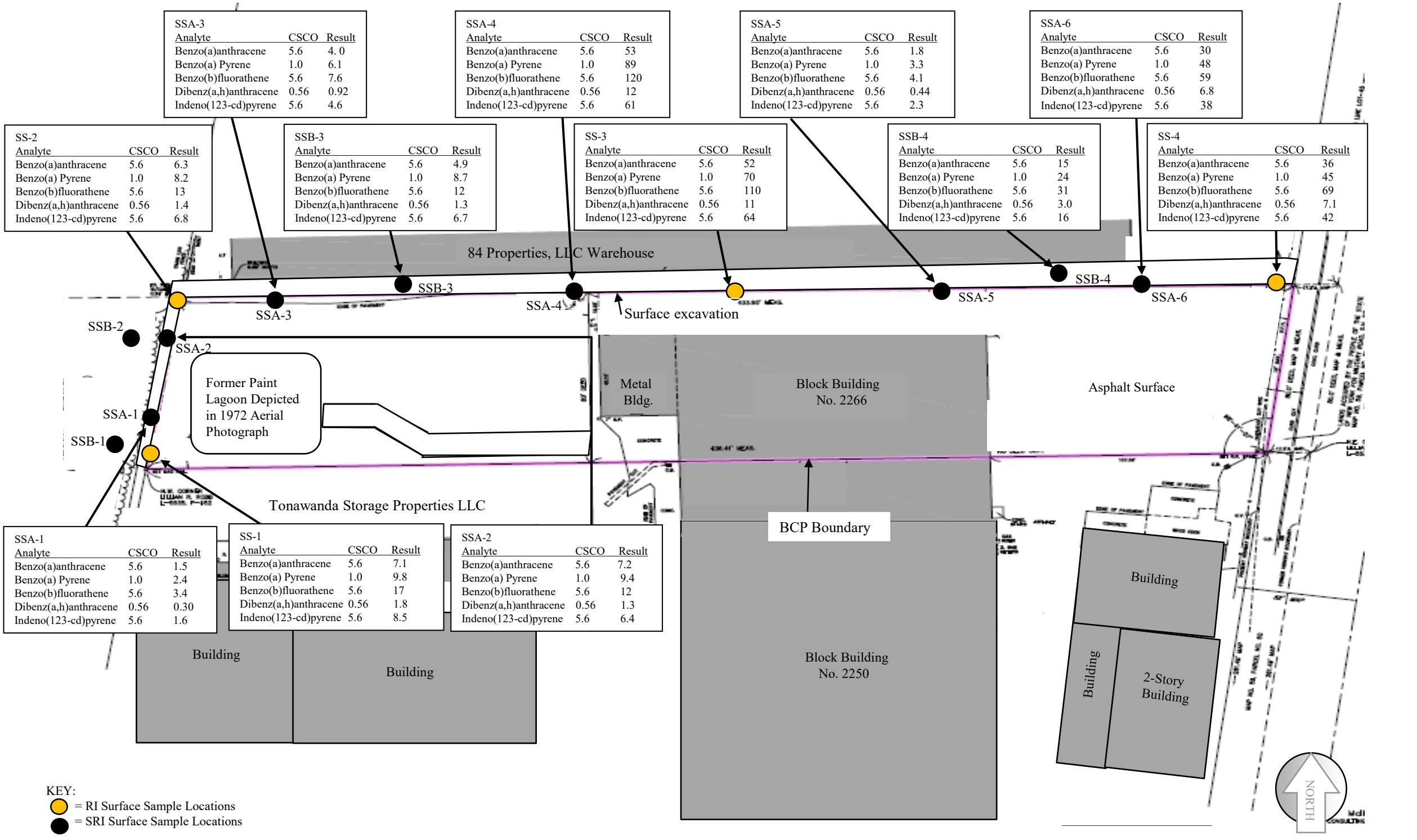
Project	1077.003
Date	3/11/2020
Scale	Not to Scale
Drawn	PVS
Checked	MPR
File Name	RI Soil Boring Locations
Figure	6



Title	Water Table Contours 2266 and 2268 Military Road Tonawanda, New York
Prepared For	Tonawanda Storage Properties LLC 2600 Innovation Square, 100 S. Clinton Ave. Rochester, New York

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Project	1077.003
Date	3/11/2020
Scale	Not to Scale
Drawn	PVS
Checked	MPR
File Name	RI Sample Loc.
Figure	7



Title: Surface Soil Exceedances of CSCOs
2266 and 2268 Military Road
Tonawanda, New York

Prepared For: Tonawanda Storage Properties LLC
1400 Crossroads Building
2 State Street, Rochester, New York

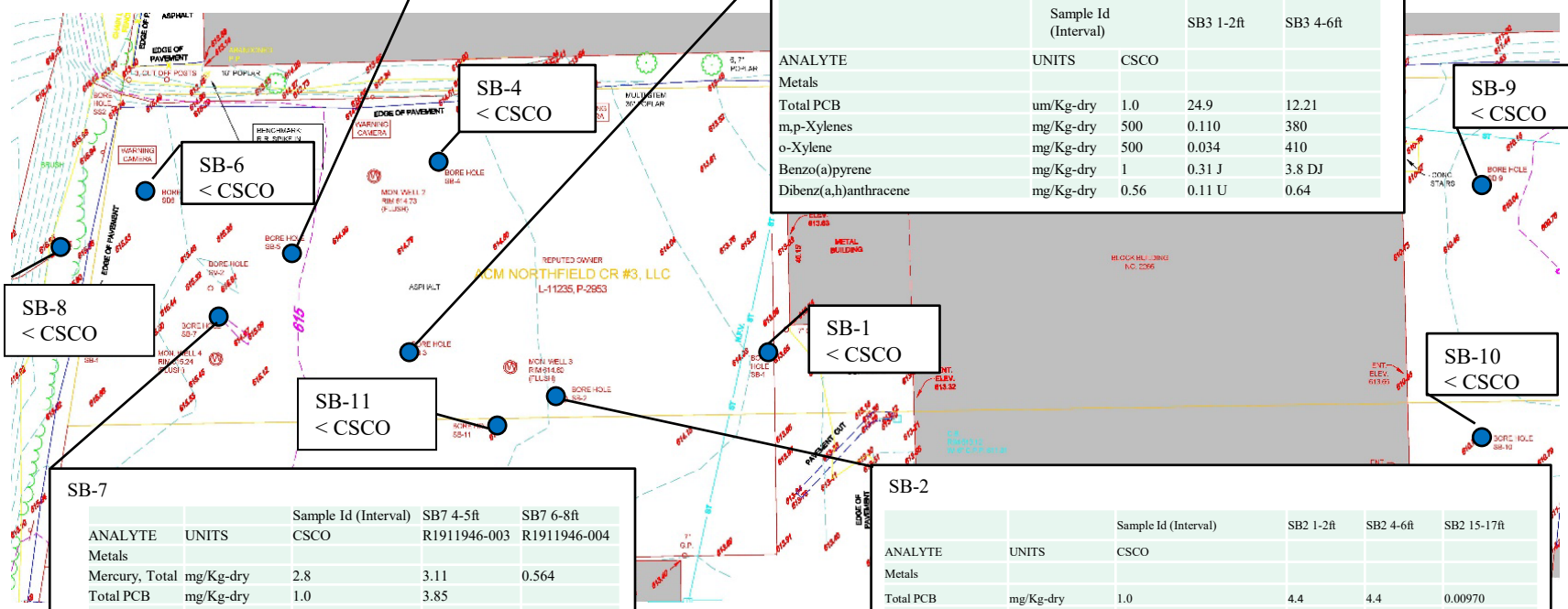
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Project 1077.003
Date 11/2/2023
Scale Not to Scale

Drawn FRT
Checked MPR
File Name Surface Soil Exceedances of CSCOs

Figure 8

● - Soil borings - SB-9 and SB-10 locations are approximate
< CSCO = Contaminant concentrations were below
Restricted Commercial Use Soil Cleanup Objectives



SB-5

	Sample Id (Interval)		SB5 7-8ft
ANALYTE	UNITS	CSCO	
Metals			
Total PCB	mg/Kg dry	1.0	1.82

SB-3

	Sample Id (Interval)		SB3 1-2ft	SB3 4-6ft
ANALYTE	UNITS	CSCO		
Metals				
Total PCB	um/Kg-dry	1.0	24.9	12.21
m,p-Xylenes	mg/Kg-dry	500	0.110	380
o-Xylene	mg/Kg-dry	500	0.034	410
Benzo(a)pyrene	mg/Kg-dry	1	0.31 J	3.8 DJ
Dibenz(a,h)anthracene	mg/Kg-dry	0.56	0.11 U	0.64

SB-7

		Sample Id (Interval)	SB7 4-5ft	SB7 6-8ft
ANALYTE	UNITS	CSCO	R1911946-003	R1911946-004
Metals				
Mercury, Total	mg/Kg-dry	2.8	3.11	0.564
Total PCB	mg/Kg-dry	1.0	3.85	
Ethylbenzene	mg/Kg-dry	390	680	730 E
Toluene	mg/Kg-dry	500	1500	120
m,p-Xylenes	mg/Kg-dry	N/A	2900	2800 E
o-Xylene	mg/Kg-dry	500	970	550

SB-2

		Sample Id (Interval)	SB2 1-2ft	SB2 4-6ft	SB2 15-17ft
ANALYTE	UNITS	CSCO			
Metals					
Total PCB	mg/Kg-dry	1.0	4.4	4.4	0.00970
Ethylbenzene	mg/Kg-dry	390	0.24 J	790	40
Toluene	mg/Kg-dry	500	0.51	12,000 E	570 E
m,p-Xylenes	mg/Kg-dry	500	2.4	3300	170
o-Xylene	mg/Kg-dry	500	0.13 J	1200	59

Title: RI Soil Boring Locations and Soil Exceeding CSCOs
2266 and 2268 Military Road
Tonawanda, New York

Prepared For: Tonawanda Storage Properties LLC
2600 Innovation Square, 100 S. Clinton Ave.
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Project: 1077.003
Date: 9/21/2022
Scale: Not to Scale

Drawn: FRT
Checked: MPR
File Name: SB Exceedances

Figure: 9

MW-1

			MW1
ANALYTE	UNITS	NYSDEC TOGS	
Metals			
Iron, Total	ug/L	300	4070
Magnesium, Total	ug/L	35000	89200
Manganese, Total	ug/L	300	220
Mercury, Total	ug/L	0.4	0.49
Sodium, Total	ug/L	20000	47000

MW-2

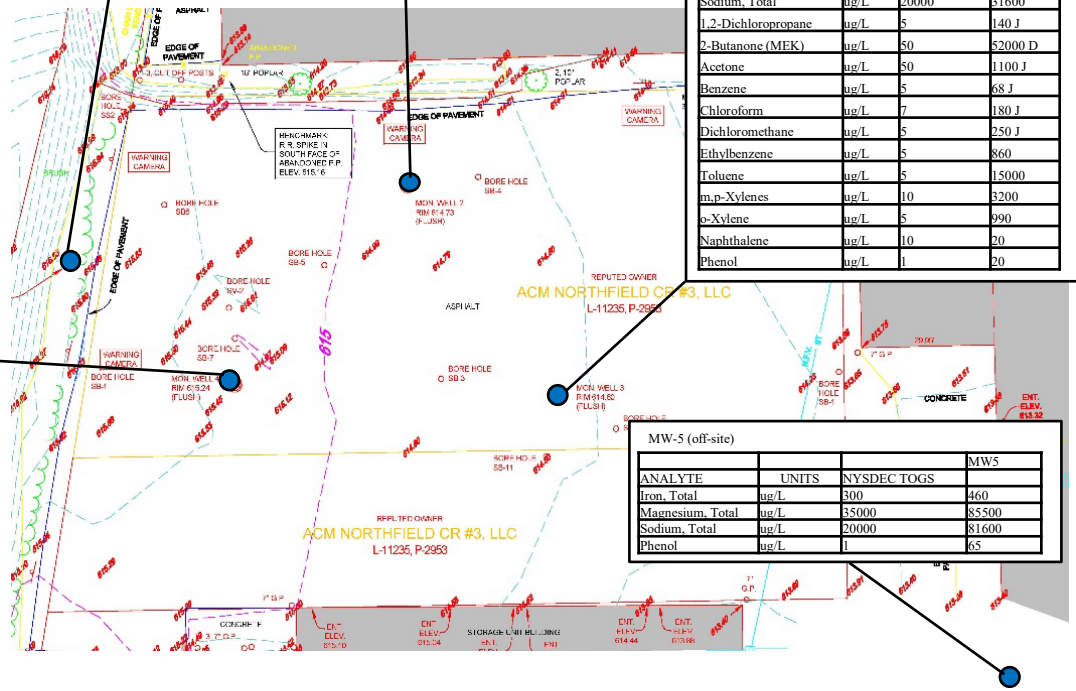
ANALYTE	UNITS	NYSDEC TOGS	MW2	MW2 DUP
Trichloroethene (TCE)	ug/L	5	8.1	1.8
cis-1,2-Dichloroethene	ug/L	5	13	2.8

MW-3

ANALYTE	UNITS	NYSDEC TOGS	MW3
Metals			
Antimony, Total	ug/L	3	6 J
Iron, Total	ug/L	300	4940
Lead, Total	ug/L	25	41 J
Magnesium, Total	ug/L	35000	35300
Manganese, Total	ug/L	300	488
Sodium, Total	ug/L	20000	31600
1,2-Dichloropropane	ug/L	5	140 J
2-Butanone (MEK)	ug/L	50	52000 D
Acetone	ug/L	50	1100 J
Benzene	ug/L	5	68 J
Chloroform	ug/L	7	180 J
Dichloromethane	ug/L	5	250 J
Ethylbenzene	ug/L	5	860
Toluene	ug/L	5	15000
m,p-Xylenes	ug/L	10	3200
o-Xylene	ug/L	5	990
Naphthalene	ug/L	10	20
Phenol	ug/L	1	20

MW-4

ANALYTE	UNITS	NYSDEC TOGS	MW4	MW4 FP
Antimony, Total	ug/L	3	105	95
Arsenic, Total	ug/L	25	22	26
Barium, Total	ug/L	1000	1050	955
Cadmium, Total	ug/L	5	8.5	8.6
Chromium, Total	ug/L	50	55	73
Iron, Total	ug/L	300	63800	44800
Lead, Total	ug/L	25	2830	2260
Magnesium, Total	ug/L	35000	129000	130000
Manganese, Total	ug/L	300	6430	6060
Mercury, Total	ug/L	0.4	3.19	2.14
Sodium, Total	ug/L	20000	961000	927000
Zinc, Total	ug/L	2000	160000	155000
4,4'-DDE	ug/L	0.2	3.0	2.3
4,4'-DDT	ug/L	0.2	1.6 P	1.3 P
Dieldrin	ug/L	0.004	0.51 J	0.48 J
Heptachlor	ug/L	0.05	0.63 J	0.46 J
Total PCB	ug/l	0.09	222.0	179
1,2-Dichloropropane	ug/L	5	140 J	100 U
2-Butanone (MEK)	ug/L	50	850000 D	590000 D
Acetone	ug/L	50	15000	10000
Bromodichloromethane	ug/L	50	110 U	260 J
Chloroform	ug/L	7	380 J	980
Dichloromethane	ug/L	5	310 J	250 J
Ethylbenzene	ug/L	5	1800	2000
Toluene	ug/L	5	45000	25000
m,p-Xylenes	ug/L	10	7400	7800
o-Xylene	ug/L	5	1400	1100
Bis(2-ethylhexyl) Phthalate	ug/L	5	97 U	830
Naphthalene	ug/L	10	11 J	11 U
Phenol	ug/L	1	350	250



MW-5 (off-site)

			MW5
ANALYTE	UNITS	NYSDEC TOGS	
Iron, Total	ug/L	300	460
Magnesium, Total	ug/L	35000	85500
Sodium, Total	ug/L	20000	81600
Phenol	ug/L	1	65

Title: Exceedances of Groundwater Standards and Guidance Values
2266 and 2268 Military Road
Tonawanda, New York

Prepared For: Tonawanda Storage Properties LLC
2600 Innovation Square, 100 S. Clinton Avenue
Rochester, New York

Leader Professional Services, Inc
271 Marsh Road-Suite 2
Pittsford, New York 14534
(585) 248-2413
FAX (585) 248-2834

Project: 1077.003
Date: 3/11/2020
Scale: Not to Scale
Drawn: PVS
Checked: MPR
File Name: RI Sample Loc.
Figure: 10

KEY

- 2023 soil vapor sampling location
- Existing monitoring well
- RI Air Sampling Location
- SRI Air Sampling Location
- BCP Site Boundary
- 2023 indoor air sampling location
- Approximate office locations

NORTH

Former Paint Lagoon
Depicted From 1972
Aerial Photograph

84 Properties, LLC Warehouse

SV-1

MW4

MW3

Metal Bldg.

SS/IA-1

SV-2

1A-2

SS/IA-2

B200

Asphalt Surface

Client Sample ID	SS-2
Analyte	**Result**
Acetone	23.3
1,4-Dioxane	0.894
Ethanol	13.6
Trichlorofluoromethane	1.6
Dichlorodifluoromethane	2.99
2-Butanone (MEK)	11.5
Propene	0.818B
Tetrachloroethene	2.93
Toluene	0.9
1,2,4-Trimethylbenzene	0.982

Client Sample ID	SV-1
Analyte	**Result**
Acetone	8.08
Benzene	0.99
Chloromethane	0.423
Cyclohexane	14.9
Ethanol	5.09
Ethylbenzene	4.81
Trichlorofluoromethane	5.57
Dichlorodifluoromethane	2.39
Heptane	24.1
N-Hexane	20.2
Tetrachloroethene	4.02
Toluene	18.6
Trichloroethene	3.65
2,2,4-Trimethylpentane	5.7
M&P-Xylene	13.2
O-Xylene	3.69

CM Northfield CR #3, LLC

Storage Unit Building

Building

Client Sample ID	SS-1
Analyte	**Result**
Acetone	74.6
Benzene	1.23
Chloromethane	1.55
Ethanol	23
Ethylbenzene	1.66
Trichlorofluoromethane	1.52
Dichlorodifluoromethane	3.66
Heptane	0.867
N-Hexane	1
Methylene Chloride	0.844
2-Butanone (MEK)	8.96
2-Propanol	12.8
Toluene	12.1
Trichloroethene	2.86
M&P-Xylene	7.72
O-Xylene	2.14

SS/IA-1

B300

Loading Dock

SS/IA-2

B250

1A-3

SV-3

B247

SV-1

B210

1A-1

B245

B230

Loading Dock

1A-4

B240

SV-4

B220

Loading Dock

Loading Dock

Building

2-Story Building

Title: RI and Supplemental SVI Results
2266 and 2268 Military Road
Tonawanda, New York

Prepared For: Tonawanda Storage Properties LLC
2600 Innovation Square, 100 S. Clinton Avenue
Rochester, New York

MARSH ENGINEERING D.P.C.
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Project 1077.003
Date 10/31/2023
Scale Not to Scale

Drawn BWA
Checked MPR
File Name RI Soil & Air Sampling Locations & Summary Results

Figure 11

NORTH

Sensitive Environments Near Bisonite Paint Site



April 2, 2020

1:36,112

0 0.33 0.65 1.3 mi
0 0.5 1 2 km

Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

NYS Department of Environmental Conservation
Not a legal document

Surface water

Wetland

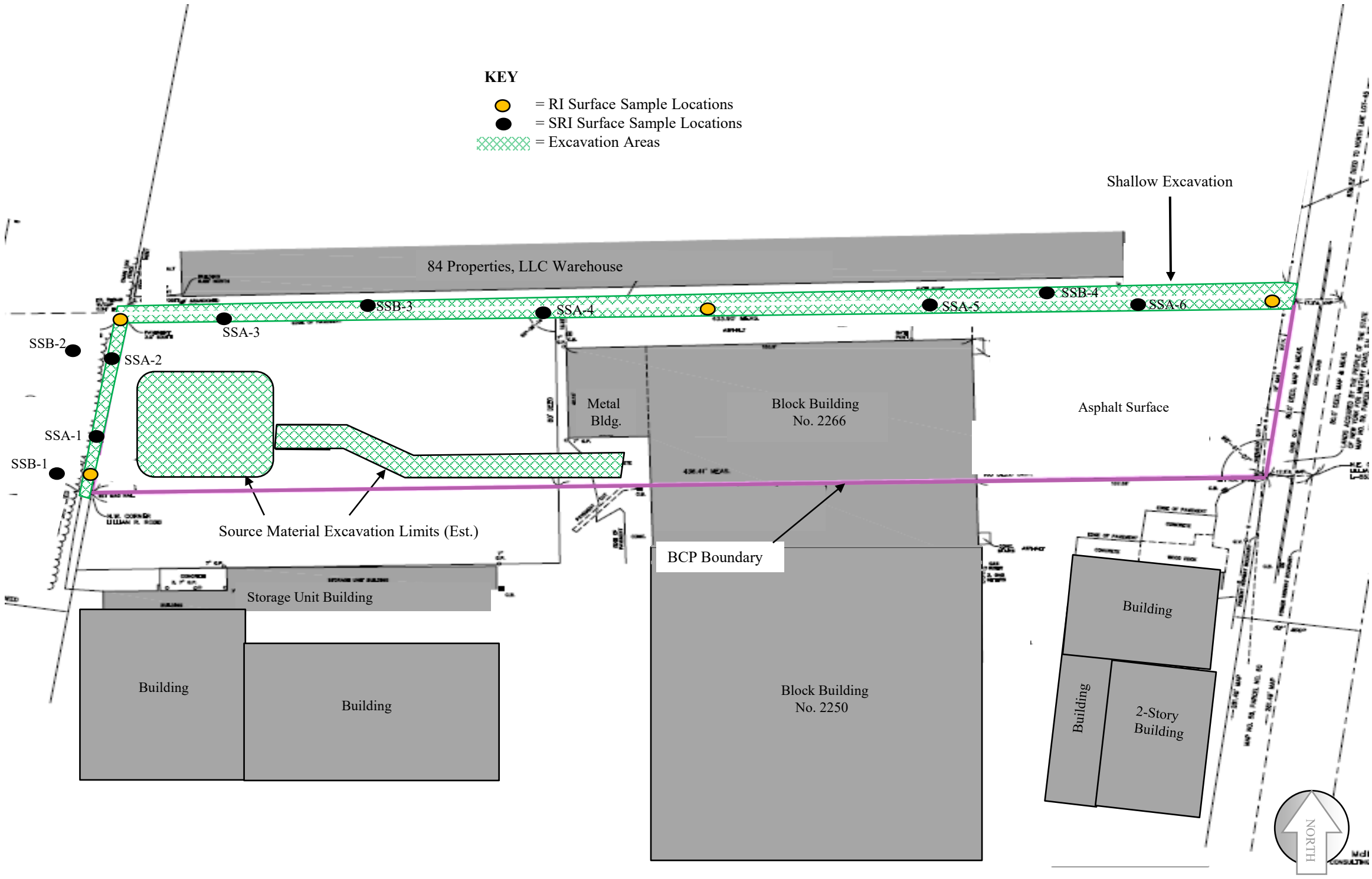
Wetland

Title	Locations of Sensitive Environments 2266 and 2268 Military Road Tonawanda, New York
Prepared For	Tonawanda Storage Properties LLC 2600 Innovation Square, 100 S. Clinton Ave. Rochester, New York

MARSH ENGINEERING U.P.C.
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Project	1077.003
Date	4/11/2020
Scale	Not to Scale
Drawn	PVS
Checked	MPR
File Name	Sensitive Env.
Figure	12

RAAR FIGURES



Title: Track 4 Approximate Excavation Limits
2266 and 2268 Military Road
Tonawanda, New York

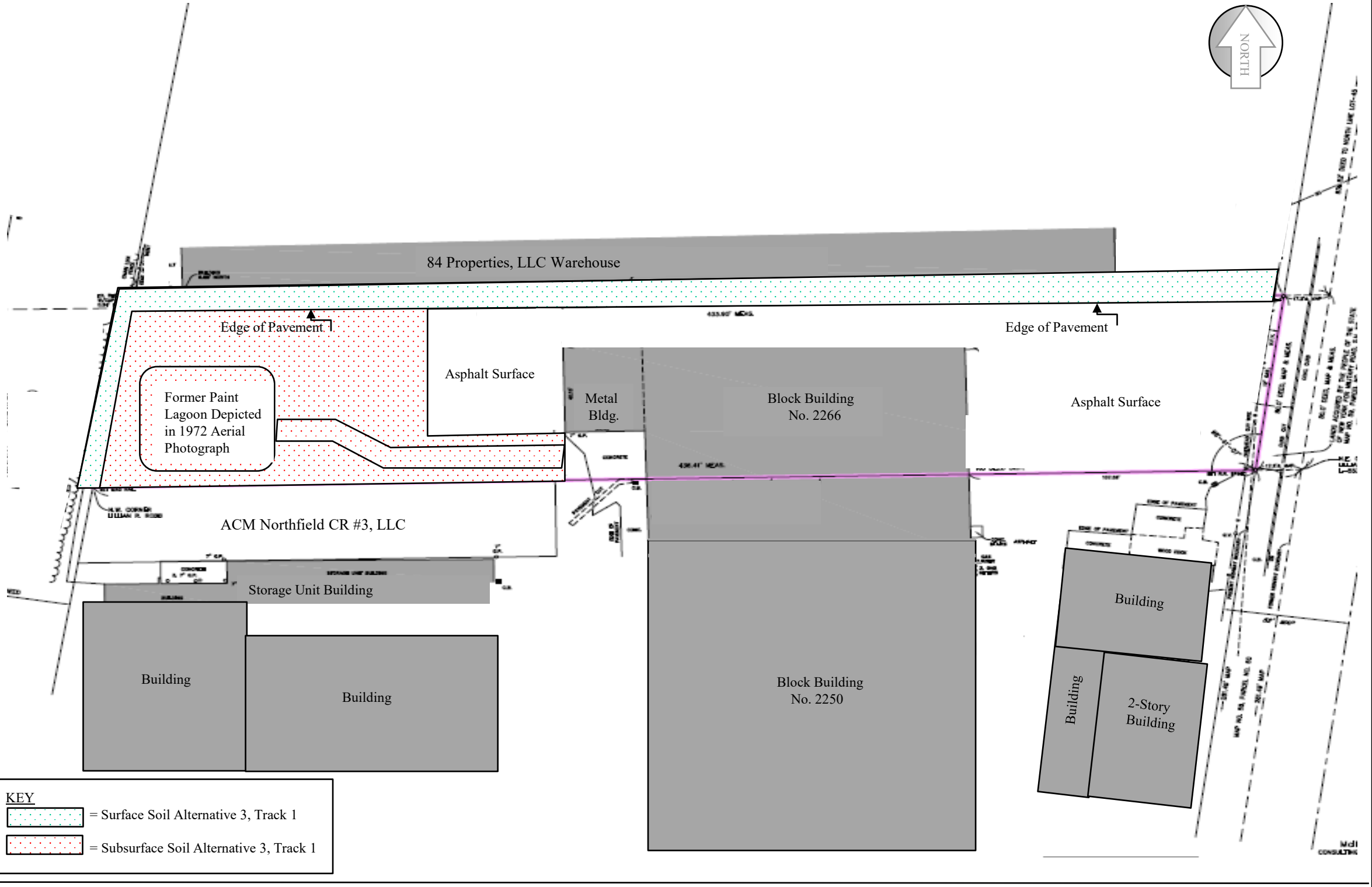
Prepared For: Tonawanda Storage Properties, LLC
2600 Innovation Square, 100 South Clinton Avenue
Rochester, New York

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Project 1077.003
Date 10/06/2023
Scale Not to Scale

Drawn FRT
Checked BWA
File Name Surface & Subsurface Excavation Areas

Figure 13



Title: Track 1 - Approximate Excavation Limits
2266 and 2268 Military Road
Tonawanda, New York

Prepared For: Tonawanda Storage Properties LLC
2600 Innovation Square, 100 S. Clinton Avenue
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Project 1077.003
Date 10/11/2022
Scale NTS

Drawn FRT
Checked MPR
File Name Approx. Ex. Limits

Figure 14

RI TABLES

TABLE 1
1993 PSA Soil Analytical Results
Former Bisonite Paint Company
Site Code C915010
2266 - 2268 Military Road
Tonawanda, New York

			Sample ID (Sample Interval)	SS-5	SS-6	SS-8	B-1 4-6 ft.	B-2 6-8 ft.
ANALYTE	**UNITS**	**Unrestricted Use SCO**	**Restricted Commercial SCO**					
Barium, Total	mg/Kg-dry	350	400	3.3	279	287	973	350
Cadmium, Total	mg/Kg-dry	2.5	9.3	1.4	ND	0.66 J	ND	1.4
Chromium, Total	mg/Kg-dry	1/30	400/1500	98.1	79.4	127	19.9	154
Copper, Total	mg/Kg-dry	50	270	35.3	25.5	31	18.5	39.2
Lead, Total	mg/Kg-dry	63	1000	693	826	1020	46.7	640
Mercury, Total	mg/Kg-dry	0.18	2.8	13.3	17	10.7	0.69	6.7
Zinc, Total	mg/Kg-dry	110	10,000	426	640	637	109	669
Total PCB	mg/Kg-dry	0.1	1	0.00061	**2.5**	0.96	0.055 J	0.19 J
2-Methylnaphthalene	mg/Kg-dry	N/A	N/A	022 J	ND	ND	ND	ND
Acenaphthene	mg/Kg-dry	20	500	0.05	ND	ND	ND	ND
Anthracene	mg/Kg-dry	100	500	0.044 J	ND	ND	ND	ND
Benzo(a)pyrene	mg/Kg-dry	1	1	0.12 J	ND	ND	ND	ND
Benzo(b)fluoranthene	mg/Kg-dry	1	5.60	0.22	ND	ND	ND	ND
Benzo(g,h,i)perylene	mg/Kg-dry	100	500	0.17	ND	ND	ND	ND
Benzo(k)fluoranthene	mg/Kg-dry	1	5.6	0.17 J	ND	ND	ND	ND
Fluoranthene	mg/Kg-dry	100	500	0.17 J	ND	0.43 J	ND	ND
Indeno(1,2,3-cd)pyrene	mg/Kg-dry	0.50	5.6	0.19 J	ND	ND	ND	ND
Naphthalene	mg/Kg-dry	12	500	4.2	ND	ND	ND	3.9 J
Phenanthrene	mg/Kg-dry	100	500	.26 J	ND	ND	ND	ND
Pyrene	mg/Kg-dry	100	500	0.62 J	0.58 J	ND	ND	ND
2-Butanone (MEK)	mg/Kg-dry	0.12	500	ND	ND	ND	ND	0.054
4-Methyl-2-pentanone	mg/Kg-dry	N/A	N/A	0.22 J	ND	ND	ND	ND
Acetone	mg/Kg-dry	0.05	500	0.87 BJ	ND	0.006 BJ	ND	**1300**
Benzene	mg/Kg-dry	0.06	44	ND	ND	ND	ND	0.21
Ethylbenzene	mg/Kg-dry	1	390	2.5	ND	ND	0.014	200
Dichloromethane	mg/Kg-dry	0.05	500	1.1 BJ	0.0003 BJ	0.011 BJ	0.011 BJ	**1100**
Styrene	mg/Kg-dry	N/A	N/A	220J	ND	ND	ND	ND
Tetrachloroethene (PCE)	mg/Kg-dry	1.3	150	ND	ND	ND	ND	0.01 J
Toluene	mg/Kg-dry	0.7	500	4.5	ND	ND	ND	**19,000**
Xylene	mg/Kg-dry	0.26	500	ND	ND	ND	36	**1,000**

Notes:
Units as shown.
ND = Not detected.
J = Value shown is >method detection limit = or < lab reporting limit.
B= Compound also found in blank.
D= Dilution.

TABLE 2
1993 PSA Groundwater Analytical Results
Former Bisonite Paint Company
Site Code C915010
2266 and 2268 Military Road
Tonawanda, New York

ANALYTE	UNITS	NYSDEC TOGS	MW3	MW4
Metals				
Antimony, Total	ug/L	3.0	ND	**44.5**
Barium, Total	ug/L	1000	105 B	277 B
Cadmium, Total	ug/L	5.0	4.3B	ND
Chromium, Total	ug/L	ND	11.6B	55
Lead, Total	ug/L	25.0	3.6	7.3
Zinc, Total	ug/L	2000	21.7	50.6
Dichloromethane	ug/L	5.0	**9B J**	**13B**
Bis(2-ethylhexyl) Phthalate	ug/L	5.0	**63 J**	**180 J**

Notes:
All units as shown.
ND = Not detected.
J = Value is > method detection limit and < lab reporting limit.
B = Compound was found in a blank sample.

TABLE 3
Groundwater Elevation, Geochemical, and Physical Measurements
Former Bisonite Paint Company
Site Code C915010
2266 and 2268 Military Road
Tonawanda, New York

Location		**MW-1**	**MW-2**	**MW-3**	**MW-4**	**MW-5**
Date	**Units**	1/27/2020	1/27/2020	1/27/2020	1/27/2020	1/27/2020
Ground elevation	Feet MSL	616.17	614.73	614.6	615.24	613.05
Water depth	Feet BGS	3.5	0.45	0.45	0.52	3.1
Water Elevation	Feet MSL	612.67	614.28	614.15	614.72	609.95
Temperature	Centigrade	5.7	3.4	4.6	NS	5.6
pH	Std, Units	7.3	8.11	8.8	NS	7.2
Sp. Cond.	mS/cm	1.09	0.284	0.74	NS	1.39
Diss. Oxygen	mg/L	7.8	10.3	1.2	NS	4.4
ORP	MV	218.9	146	-51	NS	182.6
Turbidity	NTU	10.8	10.37	47	NS	0
Free Product		0	0	0	<1 in.	0

Notes:
MSL = Mean sea level
BGS = Below ground surface
mg/L = Milligrams per liter
mS/cm = Milli-Siemens per centimeter
MV = Millivolts
Std. Units = Standard units
NS = Not Sampled due to presence of Free Product

TABLE 4
Surface Soil Analytical Results
Former Bisonite Paint Company
Site Code C915010
2266 - 2268 Military Road
Tonawanda, New York

ANALYTE	RESULT REPORTED TO	UNITS	Sample ID (Sample Interval) / Unrestricted Use SCO	Restricted Commercial SCO	SS-1 (0-2") R1911946-008	SS-2 (0-2") R1911946-009	SS-3 (0-2") R1911946-010	SS-4 (0-2") R1911946-011
Metals								
Aluminum, Total	MDL	mg/Kg-dry	N/A	N/A	7130	7190	8150	7680
Antimony, Total	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
Arsenic, Total	MDL	mg/Kg-dry	13.0	16.0	4.2	3.8	4.2	3.7
Barium, Total	MDL	mg/Kg-dry	350	400	87.2	96.3	95.2	86.8
Beryllium, Total	MDL	mg/Kg-dry	7.2	590	0.53	0.34 J	0.60	0.54
Cadmium, Total	MDL	mg/Kg-dry	2.5	9.3	0.85	0.88 J	0.66 J	0.61 J
Calcium, Total	MDL	mg/Kg-dry	N/A	N/A	67600	22100	62100	51900
Chromium, Total	MDL	mg/Kg-dry	1/30	400/1500	20.7	23.7	**40.1**	26.6
Cobalt, Total	MDL	mg/Kg-dry	N/A	N/A	4.4 J	4.8 J	5.5 J	5.4 J
Copper, Total	MDL	mg/Kg-dry	50	270	37.8	32.8	47.4	35.3
Iron, Total	MDL	mg/Kg-dry	N/A	N/A	14700	14100	20300	16900
Lead, Total	MDL	mg/Kg-dry	63	1000	**199**	51.5	**105**	**95.3**
Magnesium, Total	MDL	mg/Kg-dry	N/A	N/A	13100	6080	14000	12400
Manganese, Total	MDL	mg/Kg-dry	1600	10000	419	389	521	471
Mercury, Total	MDL	mg/Kg-dry	0.18	2.8	**0.782**	0.152	0.089	**0.225**
Nickel, Total	MDL	mg/Kg-dry	30.0	310	10.8	10.9	14.6	13.5
Potassium, Total	MDL	mg/Kg-dry	N/A	N/A	1460	1680	1860	1820
Selenium, Total	MDL	mg/Kg-dry	3.9	1500	ND	ND	ND	ND
Silver, Total	MDL	mg/Kg-dry	2.0	1500	0.1 J	ND	ND	0.1 J
Sodium, Total	MDL	mg/Kg-dry	N/A	N/A	130	ND	170	160
Thallium, Total	MDL	mg/Kg-dry	N/A	N/A	1.9	ND	1.3 J	1.3
Vanadium, Total	MDL	mg/Kg-dry	N/A	N/A	13.6	16.0	18.2	17.7
Zinc, Total	MDL	mg/Kg-dry	110	10000	**210**	**176**	**226**	**218**
Method: 8081B/Pest OC								
4,4'-DDD	MDL	mg/Kg-dry	0.0033	92.0	**0.011**	ND	**0.014**	**0.021**
4,4'-DDE	MDL	mg/Kg-dry	0.0033	62.0	**0.019**	ND	ND	ND
4,4'-DDT	MDL	mg/Kg-dry	0.0033	47.0	**0.028**	**0.024**	ND	ND
Aldrin	MDL	mg/Kg-dry	0.005	0.68	ND	ND	ND	ND
Dieldrin	MDL	mg/Kg-dry	0.005	1.4	ND	ND	ND	ND
Endosulfan I	MDL	mg/Kg-dry	2.4	200	ND	ND	0.017	0.013
Endosulfan II	MDL	mg/Kg-dry	2.4	200	0.020	ND	ND	ND
Endosulfan Sulfate	MDL	mg/Kg-dry	2.4	200	ND	ND	ND	ND
Endrin	MDL	mg/Kg-dry	0.014	89.0	**0.021**	ND	**0.058**	**0.046**
Endrin Aldehyde	MDL	mg/Kg-dry	N/A	N/A	ND	0.028	0.055	0.052
Endrin Ketone	MDL	mg/Kg-dry	N/A	N/A	0.03	ND	0.1	0.065

Notes:

Bold = > Unrestricted Use SCOs

Bold Shade = > Restricted Commercial Use SCOs

ND = Not detected or < MDL

MDL = Method Detection Limit

J = Value shown is estimated

TABLE 4
Surface Soil Analytical Results
Former Bisonite Paint Company
Site Code C915010
2266 - 2268 Military Road
Tonawanda, New York

Heptachlor	MDL	mg/Kg-dry	0.042	15.0	ND	ND	ND	ND
Heptachlor Epoxide	MDL	mg/Kg-dry	N/A	N/A	ND	ND	0.0075 J	ND
Methoxychlor	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
Toxaphene	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
alpha-BHC	MDL	mg/Kg-dry	0.02	3.4	ND	ND	ND	ND
alpha-Chlordane	MDL	mg/Kg-dry	0.094	24.0	0.0054 J	ND	ND	ND
beta-BHC	MDL	mg/Kg-dry	0.036	3.0	0.014	ND	ND	ND
delta-BHC	MDL	mg/Kg-dry	0.04	500	ND	ND	ND	ND
gamma-BHC (Lindane)	MDL	mg/Kg-dry	0.1	9.2	ND	ND	ND	ND
gamma-Chlordane	MDL	mg/Kg-dry	N/A	N/A	0.01	0.0088	0.021	0.012J
Method: 8082A/PCB								
Aroclor 1016	MDL	mg/Kg-dry	0.1	1	ND	ND	ND	ND
Aroclor 1221	MDL	mg/Kg-dry	0.1	1	ND	ND	ND	ND
Aroclor 1232	MDL	mg/Kg-dry	0.1	1	ND	ND	ND	ND
Aroclor 1242	MDL	mg/Kg-dry	0.1	1	ND	ND	ND	ND
Aroclor 1248	MDL	mg/Kg-dry	0.1	1	ND	ND	0.041 J	ND
Aroclor 1254	MDL	mg/Kg-dry	0.1	1	**0.28**	0.072	0.042 J	0.051
Aroclor 1260	MDL	mg/Kg-dry	0.1	1	**0.037 J**	ND	ND	0.025 J
Total PCBs		mg/Kg-dry	0.1	1	**0.317**	0.072	0.076	0.076
Method: 8151A/HERB								
2,4,5-T	MDL	mg/Kg-dry	N/A	N/A	.0085J	ND	0.086	0.03
2,4,5-TP	MDL	mg/Kg-dry	3.8	500	ND	ND	ND	ND
2,4-D	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
Dicamba	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
Method: 8270D/SVO								
1,2,4,5-Tetrachlorobenzene	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
2,2'-Oxybis(1-chloropropane)	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
2,3,4,6-Tetrachlorophenol	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
2,4,5-Trichlorophenol	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
2,4,6-Trichlorophenol	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
2,4-Dichlorophenol	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
2,4-Dimethylphenol	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
2,4-Dinitrophenol	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
2,4-Dinitrotoluene	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
2,6-Dinitrotoluene	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
2-Chloronaphthalene	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
2-Chlorophenol	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
2-Methylnaphthalene	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND

Notes:

Bold = > Unrestricted Use SCOs
Bold Shade = > Restricted Commercial Use SCOs
ND = Not detected or < MDL
MDL = Method Detection Limit
J = Value shown is estimated

TABLE 4
Surface Soil Analytical Results
Former Bisonite Paint Company
Site Code C915010
2266 - 2268 Military Road
Tonawanda, New York

2-Methylphenol	MDL	mg/Kg-dry	0.33	500	ND	ND	ND	ND
2-Nitroaniline	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
2-Nitrophenol	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
3,3'-Dichlorobenzidine	MDL	ug/Kg-dry	N/A	N/A	ND	ND	ND	ND
3- and 4-Methylphenol Coelution	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
3-Nitroaniline	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
4-Bromophenyl Phenyl Ether	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
4-Chloro-3-methylphenol	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
4-Chloroaniline	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
4-Chlorophenyl Phenyl Ether	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
4-Nitroaniline	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
4-Nitrophenol	MDL	mg/Kg-dry	N/A	N/A	MD	ND	ND	ND
Acenaphthene	MDL	mg/Kg-dry	20	500	0.30 J	ND	1.8 J	1.4 J
Acenaphthylene	MDL	mg/Kg-dry	100	500	ND	ND	0.91 J	ND
Acetophenone	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
Anthracene	MDL	mg/Kg-dry	100	500	1.1 J	1.1 J	6.5	5.7
Atrazine	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
Benz(a)anthracene	MDL	mg/Kg-dry	1.0	5.6	**7.1**	**6.3**	**52 D**	**36 D**
Benzaldehyde	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
Benzo(a)pyrene	MDL	mg/Kg-dry	1.0	1.0	**9.8**	**8.2**	**70 D**	**45 D**
Benzo(b)fluoranthene	MDL	mg/Kg-dry	1.0	5.6	**17 D**	**13.0**	**110 D**	**69 D**
Benzo(g,h,i)perylene	MDL	mg/Kg-dry	100	500	7.4	6.2	55 D	36 D
Benzo(k)fluoranthene	MDL	mg/Kg-dry	0.8	56.0	**5.1**	**4.5**	**19.0**	**17.0**
Biphenyl	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
Bis(2-chloroethoxy)methane	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
Bis(2-chloroethyl) Ether	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
Bis(2-ethylhexyl) Phthalate	MDL	mg/Kg-dry	N/A	N/A	0.59 J	ND	0.91 J	0.69
Butyl Benzyl Phthalate	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
Caprolactam	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
Carbazole	MDL	mg/Kg-dry	N/A	N/A	2.1	2.0	9.9	8.0
Chrysene	MDL	mg/Kg-dry	1.0	56.0	**9.9**	**9.5**	**73 D**	**48 D**
Di-n-butyl Phthalate	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
Di-n-octyl Phthalate	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
Dibenz(a,h)anthracene	MDL	mg/Kg-dry	0.33	0.56	**1.8**	**1.4 J**	**11.0**	**7.1**
Dibenzofuran	MDL	mg/Kg-dry	7.0	350	ND	ND	1.2 J	0.90 J
Diethyl Phthalate	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
Dimethyl Phthalate	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
Fluoranthene	MDL	mg/Kg-dry	100	500	11	13	87 D	63 D
Fluorene	MDL	mg/Kg-dry	30.0	500	0.43 J	ND	2.6	2.1 J

Notes:

Bold = > Unrestricted Use SCOs

Bold Shade = > Restricted Commercial Use SCOs

ND = Not detected or < MDL

MDL = Method Detection Limit

J = Value shown is estimated

TABLE 4
Surface Soil Analytical Results
Former Bisonite Paint Company
Site Code C915010
2266 - 2268 Military Road
Tonawanda, New York

Hexachlorobenzene	MDL	mg/Kg-dry	0.33	6.0	ND	ND	ND	ND
Hexachlorobutadiene	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
Hexachlorocyclopentadiene	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
Hexachloroethane	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	MDL	mg/Kg-dry	0.5	5.6	**8.5**	**6.8**	**64 D**	**42 D**
Isophorone	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
N-Nitrosodi-n-propylamine	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
N-Nitrosodiphenylamine	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
Naphthalene	MDL	mg/Kg-dry	12.0	500	ND	ND	ND	ND
Nitrobenzene	MDL	mg/Kg-dry	N/A	N/A	ND	ND	ND	ND
Pentachlorophenol (PCP)	MDL	mg/Kg-dry	0.8	6.7	0.38 U	ND	ND	ND
Phenanthrene	MDL	mg/Kg-dry	100	500	6.7	7.6	24	19
Phenol	MDL	mg/Kg-dry	0.33	500	ND	ND	ND	ND
Pyrene	MDL	mg/Kg-dry	100	500	11.0	13.0	89 D	63 D
Total TICs		mg/Kg-dry			141.900	52.500	328.500	611.100
Method: 9012B/CN Tot								
Cyanide, Total	MDL	mg/Kg-dry	27.0	27.0	0.42	0.59 B	0.68 B	0.61 B
Method: ALS SOP/Total Solids								
Total Solids	MDL	Percent	N/A	N/A	85.6	50.5	66.8	68.7

Notes:
Bold = > Unrestricted Use SCOs
Bold Shade = > Restricted Commercial Use SCOs
ND = Not detected or < MDL
MDL = Method Detection Limit
J = Value shown is estimated

TABLE 5
Subsurface Soil Analytical Results
Former Bisonite Paint Company
Site Code C915010
2266 - 2268 Military Road
Tonawanda, New York

			Sample ID (Interval)		SB 1 1' - 2'	SB1 17' - 18'	SB2 1' - 2'	SB2 4' - 6'	SB2 15' - 17'	SB3 1' - 2'	SB3 4' - 6'	SB3 10' - 12'
ANALYTE	**UNITS**	**Unrestricted Use SCO**	**-375-6.8 Soil Cleanup-Restricted Use-Commercial**	**-375-6.8 Soil Cleanup for Protection of Groundwater**	**R1911946-006**	**R1911946-007**	**R1911945-001**	**R1911945-002**	**R1911945-003**	**R1911945-004**	**R1911945-005**	**R1911945-006**
Metals												
Aluminum, Total	mg/Kg-dry	N/A	N/A	N/A	14000	7600	11100	8630	9910	10300	9060	9490
Antimony, Total	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic, Total	mg/Kg-dry	13.0	16.0	16.0	5.1	2.3	3.3	2.8	2.1	3.1	ND	2.3
Barium, Total	mg/Kg-dry	350	400	820	125	78.9	108	84.5	117	122	105	75.1
Beryllium, Total	mg/Kg-dry	7.2	590	47	0.77	0.36	0.51	0.40	0.44	0.59	0.50	0.45
Cadmium, Total	mg/Kg-dry	2.5	9.3	7.5	0.49 J	0.32 J	0.36 J	0.44 J	0.44 J	0.68	0.34 J	0.38 J
Calcium, Total	mg/Kg-dry	N/A	N/A	N/A	2290	75100	53000	76200	64700	42100	97800	61100
Chromium, Total	mg/Kg-dry	N/A	N/A	19	17.3	22.0 *	18.3	13.7	37.2 *	30.9 *	29.9 *	15.0
Cobalt, Total	mg/Kg-dry	N/A	N/A	N/A	11.1	5.9	8.1	9.1	8.0	7.4	6.8	7.6
Copper, Total	mg/Kg-dry	50.0	270	1720	19.1	19.9	19.2	22.3	21.8	22.3	18.3	18.0
Iron, Total	mg/Kg-dry	N/A	N/A	N/A	26300	16300	18800	17700	19300	18200	16100	19300
Lead, Total	mg/Kg-dry	63.0	1000	450	16.9	12.8	31.6	16.6	**152**	**194**	**215**	13.3
Magnesium, Total	mg/Kg-dry	N/A	N/A	N/A	3810	28700	16100	22100	20900	9910	11800	18800
Manganese, Total	mg/Kg-dry	1600	10000	2000	1440	538	552	580	584	576	406	531
Mercury, Total	mg/Kg-dry	0.18	2.8	0.73	0.035 J	0.024 J	**1.05 ***	0.081	**1.50 ***	**1.13 ***	**1.42 ***	0.025 J
Nickel, Total	mg/Kg-dry	30.0	310	130	17.2	10.1	13.9	11.3	13.9	13.2	12.8	13.1
Potassium, Total	mg/Kg-dry	N/A	N/A	N/A	1280	2010	1800	2190	2510	1580	2090	2310
Selenium, Total	mg/Kg-dry	3.9	1500	4.0	ND	ND	ND	ND	ND	ND	ND	ND
Silver, Total	mg/Kg-dry	2.0	1500	8.3	ND	ND	ND	ND	ND	ND	ND	ND
Sodium, Total	mg/Kg-dry	N/A	N/A	N/A	ND	180	180	200	200	120	200	190
Thallium, Total	mg/Kg-dry	N/A	N/A	N/A	ND	1.9	1.1 J	2.1	1.4	0.9 J	2.9	1.3
Vanadium, Total	mg/Kg-dry	N/A	N/A	N/A	29.8	18.3	22.6	19.7	23.3	21.5	23.6	21.4
Zinc, Total	mg/Kg-dry	110	10000	2480	75.2	74.1	77.7	75.8	125	498	184	77.6
Method: 8081B/Pest OC												
4,4'-DDD	mg/Kg-dry	0.0033	92.0	14.0	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	mg/Kg-dry	0.0033	62.0	17.0	ND	ND	ND	ND	0.010 J	ND	**0.14**	ND
4,4'-DDT	mg/Kg-dry	0.0033	47.0	136	ND	ND	ND	**0.019**	ND	ND	ND	ND
Aldrin	mg/Kg-dry	0.005	0.68	0.19	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	mg/Kg-dry	0.005	1.4	0.1	ND	ND	**0.013**	**0.0058 J**	ND	ND	**0.024**	ND
Endosulfan I	mg/Kg-dry	2.4	200	102	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	mg/Kg-dry	2.4	200	102	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	mg/Kg-dry	2.4	200	1000	ND	ND	ND	ND	ND	ND	ND	ND

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TABLE 5
Subsurface Soil Analytical Results
Former Bisonite Paint Company
Site Code C915010
2266 - 2268 Military Road
Tonawanda, New York

			Sample ID (Interval)		SB 1 1' - 2'	SB1 17' - 18'	SB2 1' - 2'	SB2 4' - 6'	SB2 15' - 17'	SB3 1' - 2'	SB3 4' - 6'	SB3 10' - 12'
ANALYTE	**UNITS**	**Unrestricted Use SCO**	**-375-6.8 Soil Cleanup-Restricted Use-Commercial**	**-375-6.8 Soil Cleanup for Protection of Groundwater**	**R1911946-006**	**R1911946-007**	**R1911945-001**	**R1911945-002**	**R1911945-003**	**R1911945-004**	**R1911945-005**	**R1911945-006**
Endrin	mg/Kg-dry	0.014	89.0	0.06	ND	ND	ND	0.013	ND	ND	0.011	ND
Endrin Aldehyde	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	0.046	ND	ND	ND	ND
Endrin Ketone	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	mg/Kg-dry	0.042	15.0	N/A	ND	ND	0.0095 J	0.020	ND	**0.047**	0.027	ND
Heptachlor Epoxide	mg/Kg-dry	N/A	N/A	0.02	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	mg/Kg-dry	N/A	N/A	100	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
alpha-BHC	mg/Kg-dry	0.02	3.4	0.02	ND	ND	ND	ND	ND	ND	ND	ND
alpha-Chlordane	mg/Kg-dry	0.094	24	2.9	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	mg/Kg-dry	0.036	3.0	0.09	ND	ND	0.013 *	ND	ND	ND	0.030 P	ND
delta-BHC	mg/Kg-dry	0.04	500	0.25	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC (Lindane)	mg/Kg-dry	0.1	9.2	0.1	ND	ND	ND	ND	ND	ND	ND	ND
gamma-Chlordane	mg/Kg-dry	N/A	N/A	14	ND	ND	ND	ND	ND	ND	ND	ND
Method: 8082A/PCB												
Aroclor 1016	mg/Kg-dry	0.1	1	3.2	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1221	mg/Kg-dry	0.1	1	3.2	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1232	mg/Kg-dry	0.1	1	3.2	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1242	mg/Kg-dry	0.1	1	3.2	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	mg/Kg-dry	0.1	1	3.2	ND	ND	**2.6**	**3.1**	**0.59**	**12 ***	**8 ***	ND
Aroclor 1254	mg/Kg-dry	0.1	1	3.2	ND	ND	**1.8**	**1.3**	**0.38**	**11 ***	**3.4 ***	ND
Aroclor 1260	mg/Kg-dry	0.1	1	3.2	ND	ND	ND	ND	ND	**1.9**	**0.81**	ND
Total PCB	mg/Kg-dry	0.1	1	3.2	ND	ND	**4.4 ***	**4.4 ***	**0.97**	**24.9 ***	**12.21 ***	ND
Method: 8151A/HERB												
2,4,5-T	mg/Kg-dry	N/A	N/A	1.9	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-TP	mg/Kg-dry	3.8	500	3.8	ND	ND	ND	ND	ND	ND	0.0072 J	ND
2,4-D	mg/Kg-dry	N/A	N/A	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Dicamba	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Method: 8260C/VOC FP												
1,1,1-Trichloroethane (TCA)	mg/Kg-dry	0.68	500	0.68	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	mg/Kg-dry	0.27	240	0.27	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)	mg/Kg-dry	0.33	500	0.33	ND	ND	ND	ND	ND	ND	ND	ND

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TABLE 5
Subsurface Soil Analytical Results
Former Bisonite Paint Company
Site Code C915010
2266 - 2268 Military Road
Tonawanda, New York

			Sample ID (Interval)		SB 1 1' - 2'	SB1 17' - 18'	SB2 1' - 2'	SB2 4' - 6'	SB2 15' - 17'	SB3 1' - 2'	SB3 4' - 6'	SB3 10' - 12'
ANALYTE	**UNITS**	**Unrestricted Use SCO**	**-375-6.8 Soil Cleanup-Restricted Use-Commercial**	**-375-6.8 Soil Cleanup for Protection of Groundwater**	**R1911946-006**	**R1911946-007**	**R1911945-001**	**R1911945-002**	**R1911945-003**	**R1911945-004**	**R1911945-005**	**R1911945-006**
1,2,3-Trichlorobenzene	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	mg/Kg-dry	N/A	N/A	3.4	ND	ND	ND	ND	ND	ND	ND	ND
(DBCP)	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	mg/Kg-dry	1.1	500	1.1	ND	ND	ND	**15 J ***	**1.3 J ***	0.00035 J	ND	ND
1,2-Dichloroethane	mg/Kg-dry	0.02	30.0	0.02	ND	0.00043 J	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	mg/Kg-dry	2.4	280	2.4	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	mg/Kg-dry	1.8	130	1.8	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	mg/Kg-dry	0.1	130	0.1	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	mg/Kg-dry	0.12	500	0.12	0.0067	0.014	ND	ND	ND	0.0082	ND	ND
2-Hexanone	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	mg/Kg-dry	N/A	N/A	1	ND	.00023 J	ND	16 J *	0.91 J	ND	ND	0.00047 J
Acetone	mg/Kg-dry	0.05	500	0.05	**0.060 ***	**0.21 E ***	ND	ND	ND	0.014	ND	0.014
Benzene	mg/Kg-dry	0.06	44.0	0.06	0.00054 J	0.00098 J	**0.16 J ***	**15 J ***	**0.70 J ***	0.014	ND	0.00015 J
Bromochloromethane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	mg/Kg-dry	N/A	N/A	2.7	0.00029 J	0.0037 J	ND	ND	ND	0.0005 J	ND	ND
Carbon Tetrachloride	mg/Kg-dry	0.76	22.0	0.76	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	mg/Kg-dry	1.1	500	1.1	0.00030 J	0.00023 J	ND	**12 J ***	0.69 J	0.00029 J	ND	ND
Chloroethane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	mg/Kg-dry	0.37	350	0.37	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	mg/Kg-dry	N/A	N/A	N/A	0.00032 J	0.0016 J	ND	ND	ND	0.028	ND	ND
Dibromochloromethane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Dichloromethane	mg/Kg-dry	0.05	500	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	mg/Kg-dry	1.0	390	1.0	ND	0.00063 J	0.24 J	**790 ***	**40 ***	0.020	**82 ***	0.0037
Isopropylbenzene (Cumene)	mg/Kg-dry	N/A	N/A	2.3	0.0012 J	0.00034 J	0.051 J	61 J *	3.4 J *	0.0014 J	59 J *	0.00031 J
Methyl Acetate	mg/Kg-dry	N/A	N/A	N/A	0.013	.11	0.35 J	ND	ND	0.0052 J	ND	0.011
Methyl tert-Butyl Ether	mg/Kg-dry	0.93	500	0.93	ND	0.00050 J	ND	ND	ND	ND	ND	ND
Methylcyclohexane	mg/Kg-dry	N/A	N/A	N/A	0.0034 J	0.0037 J	0.078 J	ND	ND	0.053	0.91 J	0.00027 J

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TABLE 5
Subsurface Soil Analytical Results
Former Bisonite Paint Company
Site Code C915010
2266 - 2268 Military Road
Tonawanda, New York

			Sample ID (Interval)		SB 1 1' - 2'	SB1 17' - 18'	SB2 1' - 2'	SB2 4' - 6'	SB2 15' - 17'	SB3 1' - 2'	SB3 4' - 6'	SB3 10' - 12'
ANALYTE	**UNITS**	**Unrestricted Use SCO**	**-375-6.8 Soil Cleanup-Restricted Use-Commercial**	**-375-6.8 Soil Cleanup for Protection of Groundwater**	**R1911946-006**	**R1911946-007**	**R1911945-001**	**R1911945-002**	**R1911945-003**	**R1911945-004**	**R1911945-005**	**R1911945-006**
Styrene	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	mg/Kg-dry	1.3	150	1.3	ND	0.00094 J	ND	ND	ND	ND	ND	ND
Toluene	mg/Kg-dry	0.7	500	0.7	0.00077 J	0.0015 J	0.51	**12000 E ***	**570 E ***	0.25 E	**89 ***	0.0078
Trichloroethene (TCE)	mg/Kg-dry	0.47	200	0.47	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	mg/Kg-dry	0.02	13.0	0.02	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	mg/Kg-dry	0.25	500	0.25	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes	mg/Kg-dry	0.26	500	1.6	0.00035 J	0.0029 J	**2.4 ***	**3300 ***	**170 D ***	0.11	**380 ***	0.014
o-Xylene	mg/Kg-dry	0.26	500	1.6	ND	0.0011 J	0.13	**1200 ***	**59 D ***	0.034	**41 ***	0.0034 J
trans-1,2-Dichloroethene	mg/Kg-dry	0.19	500	N/A	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ug/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Total TICs	mg/Kg-dry				0.561	0.180	0.66	7490	887	4.489	2375	0.1097
Method: 8270D/SVO												
1,2,4,5-Tetrachlorobenzene	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
2,2'-Oxybis(1-chloropropane)	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,6-Tetrachlorophenol	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	mg/Kg-dry	N/A	N/A	0.2	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	790 J	140 J	ND	16000 D	ND
2-Methylphenol	mg/Kg-dry	0.33	500	N/A	ND	ND	ND	**0.97 J**	ND	ND	ND	ND
2-Nitroaniline	mg/Kg-dry	N/A	N/A	0.4	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
3- and 4-Methylphenol Coelution	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	770 J	260 J	ND	110 J	ND
3-Nitroaniline	mg/Kg-dry	N/A	N/A	0.5	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND

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TABLE 5
Subsurface Soil Analytical Results
Former Bisonite Paint Company
Site Code C915010
2266 - 2268 Military Road
Tonawanda, New York

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ANALYTE	**UNITS**	**Unrestricted Use SCO**	**-375-6.8 Soil Cleanup-Restricted Use-Commercial**	**-375-6.8 Soil Cleanup for Protection of Groundwater**	**R1911946-006**	**R1911946-007**	**R1911945-001**	**R1911945-002**	**R1911945-003**	**R1911945-004**	**R1911945-005**	**R1911945-006**
4-Bromophenyl Phenyl Ether	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	mg/Kg-dry	N/A	N/A	0.22	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl Phenyl Ether	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	mg/Kg-dry	20.0	500	98.0	ND	ND	ND	ND	ND	ND	6.9 D	ND
Acenaphthylene	mg/Kg-dry	100	500	107	ND	ND	ND	ND	ND	ND	0.11 J	ND
Acetophenone	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	mg/Kg-dry	100	500	1000	ND	ND	ND	ND	ND	0.14 J	6.0 D	ND
Atrazine	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Benz(a)anthracene	mg/Kg-dry	1.0	5.6	1.0	ND	ND	ND	ND	ND	0.29 J	**5.1 D ***	ND
Benzaldehyde	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	mg/Kg-dry	1.0	1.0	22.0	ND	ND	ND	ND	ND	0.31 J	**3.8 DJ**	ND
Benzo(b)fluoranthene	mg/Kg-dry	1.0	5.6	1.7	ND	ND	0.14 J	ND	ND	0.47	**4.4 D ***	ND
Benzo(g,h,i)perylene	mg/Kg-dry	100	500	1000	ND	ND	ND	ND	ND	0.25 J	1.9	ND
Benzo(k)fluoranthene	mg/Kg-dry	0.8	56.0	1.7	ND	ND	ND	ND	ND	0.16 J	**1.9 ***	ND
Biphenyl	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	2200	ND
Bis(2-chloroethoxy)methane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethyl) Ether	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) Phthalate	mg/Kg-dry	N/A	N/A	100	ND	ND	1.1	53 D	9.2 D	2.0	5.3 DJ	0.17 J
Butyl Benzyl Phthalate	mg/Kg-dry	N/A	N/A	100	ND	ND	ND	ND	ND	ND	ND	ND
Caprolactam	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	2.2	ND
Chrysene	mg/Kg-dry	1.0	56.0	1.0	ND	ND	ND	ND	ND	0.36	**4.3 D ***	ND
Di-n-butyl Phthalate	mg/Kg-dry	N/A	N/A	8.1	ND	ND	ND	2.0	0.4 J	ND	ND	ND
Di-n-octyl Phthalate	mg/Kg-dry	N/A	N/A	100	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	mg/Kg-dry	0.33	0.56	1000	ND	ND	ND	ND	ND	ND	**0.64**	ND
Dibenzofuran	mg/Kg-dry	7.0	350	210	ND	ND	ND	ND	ND	ND	**7.2 D**	ND
Diethyl Phthalate	mg/Kg-dry	N/A	N/A	7.1	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl Phthalate	mg/Kg-dry	N/A	N/A	7	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	mg/Kg-dry	100	500	1000	ND	ND	ND	ND	0.25 J	0.66	14 D	ND
Fluorene	mg/Kg-dry	30.0	500	386	ND	ND	ND	ND	ND	ND	7.2 D	ND

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Hexachlorobenzene	mg/Kg-dry	0.33	6.0	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	mg/Kg-dry	0.5	5.6	8.2	ND	ND	ND	ND	ND	0.26 J	**2.3**	ND
Isophorone	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodi-n-propylamine	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	mg/Kg-dry	12.0	500	12.0	ND	ND	ND	4.6	0.63	ND	5.3 D	ND
Nitrobenzene	mg/Kg-dry	N/A	69	0.33	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol (PCP)	mg/Kg-dry	0.8	6.7	0.8	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	mg/Kg-dry	100	500	1000	ND	ND	ND	0.61 J	0.39 J	0.52	22 D	ND
Phenol	mg/Kg-dry	0.33	500	0.33	ND	ND	ND	0.47 J *	ND	ND	ND	ND
Pyrene	mg/Kg-dry	100	500	1000	ND	ND	ND	ND	0.18 J	0.59	12 D	ND
Total TICs					14.230	9.070	13.98	204.3	27.58	9.39	33.04	5.504
Method: 9012B/CN Tot												
Cyanide, Total	mg/Kg-dry	27.0	27.0	40	ND	0.33	1.18	ND	0.11 J	1.11	0.38	ND
Method: ALS SOP/Total Solids												
Total Solids	Percent	N/A	N/A	N/A	84.4	84.6	88.3	87.2	79.8	95.0	86.6	88.6

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Metals												
Aluminum, Total	mg/Kg-dry	N/A	N/A	N/A	10500	10900	9070	12300	9880	9340	12100	10500
Antimony, Total	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic, Total	mg/Kg-dry	13.0	16.0	16.0	4.0	3.1	2.6	4.5	3.1	3.0	4.8	2.7
Barium, Total	mg/Kg-dry	350	400	820	110	86.5	85.2	94.7	91.2	94.3	130	92.3
Beryllium, Total	mg/Kg-dry	7.2	590	47	0.50	0.51	0.44	0.61	0.45	0.46	0.64	0.51
Cadmium, Total	mg/Kg-dry	2.5	9.3	7.5	0.35 J	0.45 J	0.30 J	0.39 J	0.35 J	0.38 J	0.61	0.31 J
Calcium, Total	mg/Kg-dry	N/A	N/A	N/A	65900	74000	69400	32100	65300	56800	55500	67200
Chromium, Total	mg/Kg-dry	N/A	N/A	19	16.0	15.8	14.6	17.9	15.7	14.2	17.7	16.1
Cobalt, Total	mg/Kg-dry	N/A	N/A	N/A	8.6	8.4	7.8	8.5	7.9	8.0	8.1	9.0
Copper, Total	mg/Kg-dry	50.0	270	1720	23.0	19.5	18.0	21.1	17.3	18.7	32.9	22.7
Iron, Total	mg/Kg-dry	N/A	N/A	N/A	21600	21000	18200	21600	20200	18600	19900	21100
Lead, Total	mg/Kg-dry	63.0	1000	450	10.4	9.6	18.1	15.6	9.0	10.4	**86.9**	17.0
Magnesium, Total	mg/Kg-dry	N/A	N/A	N/A	20200	17900	20200	13100	19400	18000	15000	17400
Manganese, Total	mg/Kg-dry	1600	10000	2000	608	566	558	390	583	523	464	583
Mercury, Total	mg/Kg-dry	0.18	2.8	0.73	0.009 J	0.011 J	0.044	0.051	0.035 J	0.034 J	0.075	**0.421**
Nickel, Total	mg/Kg-dry	30.0	310	130	15.4	14.0	13.8	18.4	13.9	12.5	16.3	14.4
Potassium, Total	mg/Kg-dry	N/A	N/A	N/A	2600	2170	2300	2240	2370	2330	1780	2260
Selenium, Total	mg/Kg-dry	3.9	1500	4.0	ND	ND	ND	ND	ND	ND	ND	ND
Silver, Total	mg/Kg-dry	2.0	1500	8.3	ND	ND	ND	ND	ND	ND	ND	ND
Sodium, Total	mg/Kg-dry	N/A	N/A	N/A	200	180	190	160	210	180	140	180
Thallium, Total	mg/Kg-dry	N/A	N/A	N/A	1.2	1.9	1.9	ND	ND	1.1	1.2	2.1
Vanadium, Total	mg/Kg-dry	N/A	N/A	N/A	23.7	23.7	20.9	25.9	21.8	21.0	24.9	23.5
Zinc, Total	mg/Kg-dry	110	10000	2480	82.9	80.2	74.7	71.9	73.1	78.8	**323**	72.1
Method: 8081B/Pest OC												
4,4'-DDD	mg/Kg-dry	0.0033	92.0	14.0	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	mg/Kg-dry	0.0033	62.0	17.0	ND	ND	ND	ND	**0.020**	ND	**0.011 J**	ND
4,4'-DDT	mg/Kg-dry	0.0033	47.0	136	ND	ND	ND	ND	ND	ND	ND	ND
Aldrin	mg/Kg-dry	0.005	0.68	0.19	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	mg/Kg-dry	0.005	1.4	0.1	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	mg/Kg-dry	2.4	200	102	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	mg/Kg-dry	2.4	200	102	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	mg/Kg-dry	2.4	200	1000	ND	ND	ND	ND	ND	ND	ND	ND

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Endrin	mg/Kg-dry	0.014	89.0	0.06	ND	ND	ND	ND	ND	ND	ND	ND
Endrin Aldehyde	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	0.015	ND	ND	ND
Endrin Ketone	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	mg/Kg-dry	0.042	15.0	N/A	ND	ND	ND	ND	0.0075 J	ND	ND	ND
Heptachlor Epoxide	mg/Kg-dry	N/A	N/A	0.02	ND	ND	ND	ND	ND	ND	0.014	ND
Methoxychlor	mg/Kg-dry	N/A	N/A	100	ND	ND	ND	0.006 J	ND	ND	ND	ND
Toxaphene	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
alpha-BHC	mg/Kg-dry	0.02	3.4	0.02	ND	ND	ND	ND	ND	ND	ND	ND
alpha-Chlordane	mg/Kg-dry	0.094	24	2.9	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	mg/Kg-dry	0.036	3.0	0.09	ND	ND	ND	ND	ND	ND	ND	ND
delta-BHC	mg/Kg-dry	0.04	500	0.25	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC (Lindane)	mg/Kg-dry	0.1	9.2	0.1	ND	ND	ND	ND	ND	ND	ND	ND
gamma-Chlordane	mg/Kg-dry	N/A	N/A	14	ND	ND	ND	ND	ND	ND	ND	ND
Method: 8082A/PCB												
Aroclor 1016	mg/Kg-dry	0.1	1	3.2	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1221	mg/Kg-dry	0.1	1	3.2	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1232	mg/Kg-dry	0.1	1	3.2	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1242	mg/Kg-dry	0.1	1	3.2	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	mg/Kg-dry	0.1	1	3.2	**0.49**	ND	0.038 J	**0.16**	**1.1**	0.036 J	**0.35**	0.05
Aroclor 1254	mg/Kg-dry	0.1	1	3.2	**0.28**	ND	ND	0.1	**0.58**	0.028 J	**0.26**	0.03 J
Aroclor 1260	mg/Kg-dry	0.1	1	3.2	ND	ND	ND	0.024 J	0.14 J	ND	0.073 J	ND
Total PCB	mg/Kg-dry	0.1	1	3.2	**0.77**	ND	0.038 J	**0.284**	**1.82**	0.064 J	**0.683**	0.08
Method: 8151A/HERB												
2,4,5-T	mg/Kg-dry	N/A	N/A	1.9	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-TP	mg/Kg-dry	3.8	500	3.8	ND	ND	ND	ND	ND	ND	ND	ND
2,4-D	mg/Kg-dry	N/A	N/A	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Dicamba	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Method: 8260C/VOC FP												
1,1,1-Trichloroethane (TCA)	mg/Kg-dry	0.68	500	0.68	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	mg/Kg-dry	0.27	240	0.27	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)	mg/Kg-dry	0.33	500	0.33	ND	ND	ND	ND	ND	ND	ND	ND

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1,2,3-Trichlorobenzene	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	mg/Kg-dry	N/A	N/A	3.4	ND	ND	ND	ND	ND	ND	ND	ND
(DBCP)	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	mg/Kg-dry	1.1	500	1.1	ND	ND	ND	ND	0.0051	ND	ND	ND
1,2-Dichloroethane	mg/Kg-dry	0.02	30.0	0.02	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	mg/Kg-dry	2.4	280	2.4	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	mg/Kg-dry	1.8	130	1.8	ND	ND	ND	ND	0.00039 J	ND	ND	ND
1,4-Dioxane	mg/Kg-dry	0.1	130	0.1	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	mg/Kg-dry	0.12	500	0.12	0.013	0.011	ND	0.012	0.0061	ND	0.0035 J	0.0045
2-Hexanone	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	mg/Kg-dry	N/A	N/A	1	ND	ND	ND	ND	ND	ND	ND	0.00028 J
Acetone	mg/Kg-dry	0.05	500	0.05	**0.68 D ***	**0.071 ***	0.015	**0.085 ***	**0.23 E ***	0.015	0.027	0.041
Benzene	mg/Kg-dry	0.06	44.0	0.06	0.00029 J	ND	ND	0.00064 J	0.0054	ND	ND	0.0031 J
Bromochloromethane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	mg/Kg-dry	N/A	N/A	2.7	0.00052	0.00053 J	0.00053 J	0.00077 J	0.00041 J	ND	ND	0.00048 J
Carbon Tetrachloride	mg/Kg-dry	0.76	22.0	0.76	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	mg/Kg-dry	1.1	500	1.1	ND	ND	ND	ND	0.0044	ND	ND	ND
Chloroethane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	mg/Kg-dry	0.37	350	0.37	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	mg/Kg-dry	N/A	N/A	N/A	0.00086 J	0.00081 J	ND	0.001 J	0.00075 J	ND	ND	0.0011 J
Dibromochloromethane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Dichloromethane	mg/Kg-dry	0.05	500	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	mg/Kg-dry	1.0	390	1.0	0.0003 J	0.00027 J	ND	ND	0.0016 J	0.00059 J	ND	0.00032 J
Isopropylbenzene (Cumene)	mg/Kg-dry	N/A	N/A	2.3	0.00031	ND	ND	ND	0.0066	ND	ND	0.0039 J
Methyl Acetate	mg/Kg-dry	N/A	N/A	N/A	0.47 DJ	0.015	0.0084	0.014	0.11	0.011	0.0013 J	0.0018 J
Methyl tert-Butyl Ether	mg/Kg-dry	0.93	500	0.93	0.00077 J	ND	ND	ND	0.00048 J	ND	ND	ND
Methylcyclohexane	mg/Kg-dry	N/A	N/A	N/A	0.048 DJ	0.0027 J	ND	0.0015 J	0.0019 J	ND	ND	0.0016 J

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TABLE 5
Subsurface Soil Analytical Results
Former Bisonite Paint Company
Site Code C915010
2266 - 2268 Military Road
Tonawanda, New York

			Sample ID (Interval)		SB4 1' - 2'	SB4 1' - 2' Dup	SB4 16' - 18'	SB5 3' - 5'	SB5 7' - 8'	SB5 12' - 12'	SB6 3' - 4'	SB 6' - 8'
ANALYTE	**UNITS**	**Unrestricted Use SCO**	**-375-6.8 Soil Cleanup-Restricted Use-Commercial**	**-375-6.8 Soil Cleanup for Protection of Groundwater**	**R1911945-009**	**R1911945-010**	**R1911945-011**	**R1911945-012**	**R1911945-013**	**R1911945-014**	**R1911946-001**	**R1911946-002**
Styrene	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	mg/Kg-dry	1.3	150	1.3	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	mg/Kg-dry	0.7	500	0.7	0.00049 DJ	0.00066 J	0.00030 J	0.00041 J	0.00050 J	0.00067 J	0.00025 J	0.00063 J
Trichloroethene (TCE)	mg/Kg-dry	0.47	200	0.47	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	mg/Kg-dry	0.02	13.0	0.02	ND	0.0033 J	0.091	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	mg/Kg-dry	0.25	500	0.25	0.00026 J	0.0022 J	0.050	0.00020 J	ND	ND	ND	ND
cis-1,3-Dichloropropene	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes	mg/Kg-dry	0.26	500	1.6	0.1 DJ	0.001 J	ND	0.0016	0.073	0.0035 J	ND	0.0016 J
o-Xylene	mg/Kg-dry	0.26	500	1.6	0.038 DJ	ND	ND	0.00062	0.000055 J	0.00018	ND	0.00039 J
trans-1,2-Dichloroethene	mg/Kg-dry	0.19	500	N/A	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ug/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Total TICs	mg/Kg-dry				1.3899	0.160	0.0	0.0041	1.4673	0.018	0.0	269.8
Method: 8270D/SVO												
1,2,4,5-Tetrachlorobenzene	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
2,2'-Oxybis(1-chloropropane)	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,6-Tetrachlorophenol	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	mg/Kg-dry	N/A	N/A	0.2	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	160 J	ND	ND	ND
2-Methylphenol	mg/Kg-dry	0.33	500	N/A	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	mg/Kg-dry	N/A	N/A	0.4	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
3- and 4-Methylphenol Coelution	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	mg/Kg-dry	N/A	N/A	0.5	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND

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Former Bisonite Paint Company
Site Code C915010
2266 - 2268 Military Road
Tonawanda, New York

			Sample ID (Interval)		SB4 1' - 2'	SB4 1' - 2' Dup	SB4 16' - 18'	SB5 3' - 5'	SB5 7' - 8'	SB5 12' - 12'	SB6 3' - 4'	SB 6' - 8'
ANALYTE	**UNITS**	**Unrestricted Use SCO**	**-375-6.8 Soil Cleanup-Restricted Use-Commercial**	**-375-6.8 Soil Cleanup for Protection of Groundwater**	**R1911945-009**	**R1911945-010**	**R1911945-011**	**R1911945-012**	**R1911945-013**	**R1911945-014**	**R1911946-001**	**R1911946-002**
4-Bromophenyl Phenyl Ether	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	mg/Kg-dry	N/A	N/A	0.22	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl Phenyl Ether	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	mg/Kg-dry	20.0	500	98.0	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	mg/Kg-dry	100	500	107	ND	ND	ND	ND	ND	ND	ND	ND
Acetophenone	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	mg/Kg-dry	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND
Atrazine	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Benz(a)anthracene	mg/Kg-dry	1.0	5.6	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Benzaldehyde	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	mg/Kg-dry	1.0	1.0	22.0	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	mg/Kg-dry	1.0	5.6	1.7	ND	ND	ND	0.16 J	ND	ND	ND	ND
Benzo(g,h,i)perylene	mg/Kg-dry	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	mg/Kg-dry	0.8	56.0	1.7	ND	ND	ND	ND	ND	ND	ND	ND
Biphenyl	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethyl) Ether	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) Phthalate	mg/Kg-dry	N/A	N/A	100	ND	ND	ND	0.14 J	6.0 D	0.19 J	ND	0.41 J
Butyl Benzyl Phthalate	mg/Kg-dry	N/A	N/A	100	ND	ND	ND	ND	ND	ND	ND	ND
Caprolactam	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	mg/Kg-dry	1.0	56.0	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl Phthalate	mg/Kg-dry	N/A	N/A	8.1	ND	ND	ND	ND	ND	0.13 J	ND	ND
Di-n-octyl Phthalate	mg/Kg-dry	N/A	N/A	100	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	mg/Kg-dry	0.33	0.56	1000	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	mg/Kg-dry	7.0	350	210	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl Phthalate	mg/Kg-dry	N/A	N/A	7.1	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl Phthalate	mg/Kg-dry	N/A	N/A	7	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	mg/Kg-dry	100	500	1000	ND	ND	ND	0.17 J	0.18 J	ND	ND	ND
Fluorene	mg/Kg-dry	30.0	500	386	ND	ND	ND	ND	ND	ND	ND	ND

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Former Bisonite Paint Company
Site Code C915010
2266 - 2268 Military Road
Tonawanda, New York

			Sample ID (Interval)		SB4 1' - 2'	SB4 1' - 2' Dup	SB4 16' - 18'	SB5 3' - 5'	SB5 7' - 8'	SB5 12' - 12'	SB6 3' - 4'	SB 6' - 8'
ANALYTE	**UNITS**	**Unrestricted Use SCO**	**-375-6.8 Soil Cleanup-Restricted Use-Commercial**	**-375-6.8 Soil Cleanup for Protection of Groundwater**	**R1911945-009**	**R1911945-010**	**R1911945-011**	**R1911945-012**	**R1911945-013**	**R1911945-014**	**R1911946-001**	**R1911946-002**
Hexachlorobenzene	mg/Kg-dry	0.33	6.0	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	mg/Kg-dry	0.5	5.6	8.2	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodi-n-propylamine	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	mg/Kg-dry	12.0	500	12.0	ND	ND	ND	ND	0.54	ND	ND	ND
Nitrobenzene	mg/Kg-dry	N/A	69	0.33	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol (PCP)	mg/Kg-dry	0.8	6.7	0.8	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	mg/Kg-dry	100	500	1000	ND	ND	ND	ND	0.25 J	ND	ND	ND
Phenol	mg/Kg-dry	0.33	500	0.33	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	mg/Kg-dry	100	500	1000	ND	ND	ND	0.19 J	ND	ND	ND	ND
Total TICs					3.05	1.28	1.1	6.08	22.970	4.4	3.676	54.810
Method: 9012B/CN Tot												
Cyanide, Total	mg/Kg-dry	27.0	27.0	40	ND	ND	0.40	ND	0.05 U	0.05 U	0.05 U	0.08 J
Method: ALS SOP/Total Solids												
Total Solids	Percent	N/A	N/A	N/A	87.4	88.4	86.0	84.6	84.6	89.7	82.3	85.4

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Subsurface Soil Analytical Results
Former Bisonite Paint Company
Site Code C915010
2266 - 2268 Military Road
Tonawanda, New York

			Sample ID (Interval)		SB7 4' - 5'	SB7 6' - 8'	SB7 10' - 12'	SB8 1' - 2'	SB8 6' - 8'	SB9 2' - 4'	SB9 11' - 13'	SB10 2' - 4'
ANALYTE	**UNITS**	**Unrestricted Use SCO**	**-375-6.8 Soil Cleanup-Restricted Use-Commercial**	**-375-6.8 Soil Cleanup for Protection of Groundwater**	**R1911946-003**	**R1911946-004**	**R1911946-005**	**R1911947-001**	**R1911947-002**	**R1911947-006**	**R1911947-007**	**R1911947-008**
Metals												
Aluminum, Total	mg/Kg-dry	N/A	N/A	N/A	10600	12100	9230	11800	9110	7890	8760	10100
Antimony, Total	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic, Total	mg/Kg-dry	13.0	16.0	16.0	3.5	3.3	2.6	2.9	3.3	3.3	2.8	3.6
Barium, Total	mg/Kg-dry	350	400	820	136	122	64.1	99.2	132	78.9	83.1	123
Beryllium, Total	mg/Kg-dry	7.2	590	47	0.54	0.57	0.43	0.56	0.43	0.38	0.42	0.47
Cadmium, Total	mg/Kg-dry	2.5	9.3	7.5	0.61	0.44 J	0.33 J	0.30 J	0.26 J	0.28 J	0.23 J	0.27 J
Calcium, Total	mg/Kg-dry	N/A	N/A	N/A	61500	80900	62800	71900	80600	68200	67600	62000
Chromium, Total	mg/Kg-dry	N/A	N/A	19	34.4 *	19.1 *	14.0	16.4	13.4	11.7	13.0	14.7
Cobalt, Total	mg/Kg-dry	N/A	N/A	N/A	10.7	9.3	6.5	8.3	7.6	6.2	5.9	8.9
Copper, Total	mg/Kg-dry	50.0	270	1720	34.7	20.2	18.4	19.6	20.7	19.8	15.4	19.9
Iron, Total	mg/Kg-dry	N/A	N/A	N/A	22400	25100	18600	21600	19500	17200	17800	20200
Lead, Total	mg/Kg-dry	63.0	1000	450	**243**	16.2	9.0	11.7	10.8	9.0	8.3	9.3
Magnesium, Total	mg/Kg-dry	N/A	N/A	N/A	13100	24400	19400	16700	28500	21000	19700	18100
Manganese, Total	mg/Kg-dry	1600	10000	2000	616	683	524	606	545	529	517	585
Mercury, Total	mg/Kg-dry	0.18	2.8	0.73	**3.11 ***	**0.564**	0.035 J	0.117	0.01 J	0.008 J	0.007 U	0.008 J
Nickel, Total	mg/Kg-dry	30.0	310	130	13.6	16.0	12.2	13.8	12.2	8.9	10.3	15.0
Potassium, Total	mg/Kg-dry	N/A	N/A	N/A	1960	2770	2250	1890	2150	1800	2160	2210
Selenium, Total	mg/Kg-dry	3.9	1500	4.0	ND	ND	ND	ND	ND	ND	0.8 J	ND
Silver, Total	mg/Kg-dry	2.0	1500	8.3	ND	ND	ND	ND	ND	ND	ND	ND
Sodium, Total	mg/Kg-dry	N/A	N/A	N/A	160	250	170	140	190	200	160	220
Thallium, Total	mg/Kg-dry	N/A	N/A	N/A	8 U	2.3	1.6	1.8	2.2	1.8	1.7	1.8
Vanadium, Total	mg/Kg-dry	N/A	N/A	N/A	23.9	25.9	20.7	24.6	22.2	20.1	19.7	22.5
Zinc, Total	mg/Kg-dry	110	10000	2480	**282**	**128**	73.0	71.2	67.4	77.1	68.4	67.3
Method: 8081B/Pest OC												
4,4'-DDD	mg/Kg-dry	0.0033	92.0	14.0	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	mg/Kg-dry	0.0033	62.0	17.0	**0.053**	ND	ND	0.0015 J	ND	ND	ND	ND
4,4'-DDT	mg/Kg-dry	0.0033	47.0	136	ND	ND	ND	ND	ND	ND	ND	ND
Aldrin	mg/Kg-dry	0.005	0.68	0.19	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	mg/Kg-dry	0.005	1.4	0.1	**0.012**	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	mg/Kg-dry	2.4	200	102	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	mg/Kg-dry	2.4	200	102	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	mg/Kg-dry	2.4	200	1000	ND	ND	ND	ND	ND	ND	ND	ND

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2266 - 2268 Military Road
Tonawanda, New York

			Sample ID (Interval)		SB7 4' - 5'	SB7 6' - 8'	SB7 10' - 12'	SB8 1' - 2'	SB8 6' - 8'	SB9 2' - 4'	SB9 11' - 13'	SB10 2' - 4'
ANALYTE	**UNITS**	**Unrestricted Use SCO**	**-375-6.8 Soil Cleanup-Restricted Use-Commercial**	**-375-6.8 Soil Cleanup for Protection of Groundwater**	**R1911946-003**	**R1911946-004**	**R1911946-005**	**R1911947-001**	**R1911947-002**	**R1911947-006**	**R1911947-007**	**R1911947-008**
Endrin	mg/Kg-dry	0.014	89.0	0.06	0.0060 J	ND	ND	ND	ND	ND	ND	ND
Endrin Aldehyde	mg/Kg-dry	N/A	N/A	N/A	ND	0.0082 J	0.00097 J	ND	ND	ND	ND	ND
Endrin Ketone	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	mg/Kg-dry	0.042	15.0	N/A	0.0072 J	ND	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide	mg/Kg-dry	N/A	N/A	0.02	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	mg/Kg-dry	N/A	N/A	100	0.015	ND	ND	ND	ND	ND	ND	ND
Toxaphene	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
alpha-BHC	mg/Kg-dry	0.02	3.4	0.02	ND	ND	ND	ND	ND	ND	ND	ND
alpha-Chlordane	mg/Kg-dry	0.094	24	2.9	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	mg/Kg-dry	0.036	3.0	0.09	ND	0.010 J	0.0020	ND	ND	ND	ND	ND
delta-BHC	mg/Kg-dry	0.04	500	0.25	ND	0.0084 J	0.0016 J	ND	ND	ND	ND	ND
gamma-BHC (Lindane)	mg/Kg-dry	0.1	9.2	0.1	ND	ND	ND	ND	ND	ND	ND	ND
gamma-Chlordane	mg/Kg-dry	N/A	N/A	14	ND	ND	ND	0.0013 J	ND	ND	ND	ND
Method: 8082A/PCB												
Aroclor 1016	mg/Kg-dry	0.1	1	3.2	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1221	mg/Kg-dry	0.1	1	3.2	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1232	mg/Kg-dry	0.1	1	3.2	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1242	mg/Kg-dry	0.1	1	3.2	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	mg/Kg-dry	0.1	1	3.2	**2.0**	**0.54**	0.041	ND	ND	ND	ND	ND
Aroclor 1254	mg/Kg-dry	0.1	1	3.2	**1.4**	**0.16**	ND	0.039 J	ND	ND	ND	ND
Aroclor 1260	mg/Kg-dry	0.1	1	3.2	0.45	ND	ND	ND	ND	ND	ND	ND
Total PCB	mg/Kg-dry	0.1	1	3.2	**3.85 ***	**0.7**	0.041	0.039 J	ND	ND	ND	ND
Method: 8151A/HERB												
2,4,5-T	mg/Kg-dry	N/A	N/A	1.9	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-TP	mg/Kg-dry	3.8	500	3.8	ND	ND	ND	ND	ND	ND	ND	ND
2,4-D	mg/Kg-dry	N/A	N/A	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Dicamba	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Method: 8260C/VOC FP												
1,1,1-Trichloroethane (TCA)	mg/Kg-dry	0.68	500	0.68	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	mg/Kg-dry	0.27	240	0.27	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)	mg/Kg-dry	0.33	500	0.33	ND	ND	ND	ND	ND	ND	ND	ND

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Subsurface Soil Analytical Results
Former Bisonite Paint Company
Site Code C915010
2266 - 2268 Military Road
Tonawanda, New York

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1,2,3-Trichlorobenzene	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	mg/Kg-dry	N/A	N/A	3.4	15 J *	ND	ND	ND	ND	ND	ND	ND
(DBCP)	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	mg/Kg-dry	1.1	500	1.1	ND	**23**	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	mg/Kg-dry	0.02	30.0	0.02	ND	ND	0.0017 J	ND	ND	ND	ND	ND
1,2-Dichloropropane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	mg/Kg-dry	2.4	280	2.4	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	mg/Kg-dry	1.8	130	1.8	ND	**2.1 J**	ND	ND	ND	ND	ND	ND
1,4-Dioxane	mg/Kg-dry	0.1	130	0.1	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	mg/Kg-dry	0.12	500	0.12	ND	ND	ND	ND	0.0039	ND	0.0023 J	ND
2-Hexanone	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	mg/Kg-dry	N/A	N/A	1	ND	1.6 J	ND	ND	ND	ND	ND	ND
Acetone	mg/Kg-dry	0.05	500	0.05	ND	ND	0.015	0.0088	**0.19 E**	0.019	0.020	0.028
Benzene	mg/Kg-dry	0.06	44.0	0.06	**7.1 J ***	**19 ***	0.00062 J	ND	ND	ND	0.00062 J	ND
Bromochloromethane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	mg/Kg-dry	N/A	N/A	2.7	ND	ND	ND	ND	ND	0.00022 J	0.00063 J	ND
Carbon Tetrachloride	mg/Kg-dry	0.76	22.0	0.76	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	mg/Kg-dry	1.1	500	1.1	ND	**27 ***	0.00024 J	ND	ND	ND	ND	ND
Chloroethane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	mg/Kg-dry	0.37	350	0.37	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	0.0019 J	ND
Dibromochloromethane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Dichloromethane	mg/Kg-dry	0.05	500	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	mg/Kg-dry	1.0	390	1.0	**680 ***	**730 E ***	0.0041 J	0.00037 J	0.00023 J	ND	0.00063 J	ND
Isopropylbenzene (Cumene)	mg/Kg-dry	N/A	N/A	2.3	56 J *	49 *	ND	ND	ND	ND	ND	ND
Methyl Acetate	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	0.0017 J	0.055	0.00074 J	ND	0.0016 J
Methyl tert-Butyl Ether	mg/Kg-dry	0.93	500	0.93	ND	ND	ND	0.00022 J	0.00027 J	ND	ND	ND
Methylcyclohexane	mg/Kg-dry	N/A	N/A	N/A	6.4 J	4.7 J	ND	ND	ND	ND	0.0037 J	ND

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Styrene	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	mg/Kg-dry	1.3	150	1.3	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	mg/Kg-dry	0.7	500	0.7	**1500 ***	**120 ***	0.0065	0.00050 J	0.00041 J	0.00032 J	0.0023 J	0.00038 J
Trichloroethene (TCE)	mg/Kg-dry	0.47	200	0.47	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	mg/Kg-dry	0.02	13.0	0.02	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	mg/Kg-dry	0.25	500	0.25	ND	**2.2 J ***	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes	mg/Kg-dry	0.26	500	1.6	**2900 ***	**2800 E ***	0.017	0.0016 J	0.00093 J	ND	0.0028 J	ND
o-Xylene	mg/Kg-dry	0.26	500	1.6	**970 ***	**550 ***	0.0035 J	0.00035 J	0.0002 J	ND	0.00093 J	ND
trans-1,2-Dichloroethene	mg/Kg-dry	0.19	500	N/A	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ug/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Total TICs	mg/Kg-dry				11760	3256	0.0	0.0056	0.0225	0.0	0.0089	0.0
Method: 8270D/SVO							ND					
1,2,4,5-Tetrachlorobenzene	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
2,2'-Oxybis(1-chloropropane)	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,6-Tetrachlorophenol	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	mg/Kg-dry	N/A	N/A	0.2	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	mg/Kg-dry	0.33	500	N/A	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	mg/Kg-dry	N/A	N/A	0.4	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
3- and 4-Methylphenol Coelution	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	mg/Kg-dry	N/A	N/A	0.5	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND

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4-Bromophenyl Phenyl Ether	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	mg/Kg-dry	N/A	N/A	0.22	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl Phenyl Ether	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	mg/Kg-dry	20.0	500	98.0	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	mg/Kg-dry	100	500	107	ND	ND	ND	ND	ND	ND	ND	ND
Acetophenone	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	mg/Kg-dry	100	500	1000	0.16 J	ND	ND	ND	ND	ND	ND	ND
Atrazine	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Benz(a)anthracene	mg/Kg-dry	1.0	5.6	1.0	0.34 J	ND	ND	ND	ND	ND	ND	ND
Benzaldehyde	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	mg/Kg-dry	1.0	1.0	22.0	0.30 J	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	mg/Kg-dry	1.0	5.6	1.7	0.38 J	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	mg/Kg-dry	100	500	1000	0.16 J	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	mg/Kg-dry	0.8	56.0	1.7	ND	ND	ND	ND	ND	ND	ND	ND
Biphenyl	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethyl) Ether	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) Phthalate	mg/Kg-dry	N/A	N/A	100	1.2	0.84	0.23 J	ND	ND	ND	ND	ND
Butyl Benzyl Phthalate	mg/Kg-dry	N/A	N/A	100	ND	ND	ND	ND	ND	ND	ND	ND
Caprolactam	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	mg/Kg-dry	1.0	56.0	1.0	0.35 J	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl Phthalate	mg/Kg-dry	N/A	N/A	8.1	ND	0.26 J	0.14J	ND	ND	ND	ND	ND
Di-n-octyl Phthalate	mg/Kg-dry	N/A	N/A	100	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	mg/Kg-dry	0.33	0.56	1000	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	mg/Kg-dry	7.0	350	210	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl Phthalate	mg/Kg-dry	N/A	N/A	7.1	ND	0.12 J	ND	ND	ND	ND	ND	ND
Dimethyl Phthalate	mg/Kg-dry	N/A	N/A	7	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	mg/Kg-dry	100	500	1000	0.85	ND	ND	ND	ND	ND	0.23 J	ND
Fluorene	mg/Kg-dry	30.0	500	386	ND	ND	ND	ND	ND	ND	ND	ND

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Hexachlorobenzene	mg/Kg-dry	0.33	6.0	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	mg/Kg-dry	0.5	5.6	8.2	0.18 J	ND	ND	ND	ND	ND	ND	ND
Isophorone	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodi-n-propylamine	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	mg/Kg-dry	12.0	500	12.0	ND	0.38 J	ND	ND	ND	ND	ND	ND
Nitrobenzene	mg/Kg-dry	N/A	69	0.33	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol (PCP)	mg/Kg-dry	0.8	6.7	0.8	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	mg/Kg-dry	100	500	1000	0.67	ND	ND	ND	ND	ND	0.13 J	ND
Phenol	mg/Kg-dry	0.33	500	0.33	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	mg/Kg-dry	100	500	1000	0.70	ND	ND	ND	ND	ND	0.21 J	ND
Total TICs					7.190	26.510	5.690	2.4	5.6	15.0	174.24	3.0
Method: 9012B/CN Tot												
Cyanide, Total	mg/Kg-dry	27.0	27.0	40	0.20 J	1.34	ND	ND	0.25 BJ	ND	ND	ND
Method: ALS SOP/Total Solids												
Total Solids	Percent	N/A	N/A	N/A	77.9	67.9	89.3	84.1	88.0	87.7	88.5	89.3

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TABLE 5
Subsurface Soil Analytical Results
Former Bisonite Paint Company
Site Code C915010
2266 - 2268 Military Road
Tonawanda, New York

			Sample ID (Interval)		SB10 12' - 14'	SB11 1' - 2'	SB11 6' - 8'	SB11 6' - 8' Dup
ANALYTE	**UNITS**	**Unrestricted Use SCO**	**-375-6.8 Soil Cleanup-Restricted Use-Commercial**	**-375-6.8 Soil Cleanup for Protection of Groundwater**	**R1911947-009**	**R1911947-003**	**R1911947-004**	**R1911947-005**
Metals								
Aluminum, Total	mg/Kg-dry	N/A	N/A	N/A	8960	20200	8130	9540
Antimony, Total	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
Arsenic, Total	mg/Kg-dry	13.0	16.0	16.0	4.4	3.5	2.5	ND
Barium, Total	mg/Kg-dry	350	400	820	138	152	109	59.0
Beryllium, Total	mg/Kg-dry	7.2	590	47	0.43	0.87	0.38	0.44
Cadmium, Total	mg/Kg-dry	2.5	9.3	7.5	0.24 J	0.17 J	0.27 J	0.29 J
Calcium, Total	mg/Kg-dry	N/A	N/A	N/A	57600	4360	102000	65600
Chromium, Total	mg/Kg-dry	N/A	N/A	19	13.3	24.8 *	12.2	14.1
Cobalt, Total	mg/Kg-dry	N/A	N/A	N/A	8.7	10.7	6.9	7.2
Copper, Total	mg/Kg-dry	50.0	270	1720	17.0	22.5	17.1	19.4
Iron, Total	mg/Kg-dry	N/A	N/A	N/A	18800	27900	16700	18800
Lead, Total	mg/Kg-dry	63.0	1000	450	15.6	14.8	8.8	9.3
Magnesium, Total	mg/Kg-dry	N/A	N/A	N/A	16700	7130	42800	21800
Manganese, Total	mg/Kg-dry	1600	10000	2000	663	211	672	537
Mercury, Total	mg/Kg-dry	0.18	2.8	0.73	0.007 J	0.063	0.009 J	0.008 J
Nickel, Total	mg/Kg-dry	30.0	310	130	12.9	21.3	9.6	11.6
Potassium, Total	mg/Kg-dry	N/A	N/A	N/A	2180	1570	2030	2330
Selenium, Total	mg/Kg-dry	3.9	1500	4.0	ND	ND	ND	ND
Silver, Total	mg/Kg-dry	2.0	1500	8.3	ND	ND	ND	ND
Sodium, Total	mg/Kg-dry	N/A	N/A	N/A	160	180	190	180
Thallium, Total	mg/Kg-dry	N/A	N/A	N/A	1.6	0.8 U	3.3	2.0
Vanadium, Total	mg/Kg-dry	N/A	N/A	N/A	20.0	34.9	18.1	21.5
Zinc, Total	mg/Kg-dry	110	10000	2480	62.3	96.0	59.7	76.5
Method: 8081B/Pest OC								
4,4'-DDD	mg/Kg-dry	0.0033	92.0	14.0	ND	ND	ND	ND
4,4'-DDE	mg/Kg-dry	0.0033	62.0	17.0	ND	**0.0074 J**	ND	ND
4,4'-DDT	mg/Kg-dry	0.0033	47.0	136	ND	ND	ND	ND
Aldrin	mg/Kg-dry	0.005	0.68	0.19	ND	ND	ND	ND
Dieldrin	mg/Kg-dry	0.005	1.4	0.1	ND	ND	ND	ND
Endosulfan I	mg/Kg-dry	2.4	200	102	ND	ND	ND	ND
Endosulfan II	mg/Kg-dry	2.4	200	102	ND	ND	ND	ND
Endosulfan Sulfate	mg/Kg-dry	2.4	200	1000	ND	ND	ND	ND

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TABLE 5
Subsurface Soil Analytical Results
Former Bisonite Paint Company
Site Code C915010
2266 - 2268 Military Road
Tonawanda, New York

			Sample ID (Interval)		SB10 12' - 14'	SB11 1' - 2'	SB11 6' - 8'	SB11 6' - 8' Dup
ANALYTE	**UNITS**	**Unrestricted Use SCO**	**-375-6.8 Soil Cleanup-Restricted Use-Commercial**	**-375-6.8 Soil Cleanup for Protection of Groundwater**	**R1911947-009**	**R1911947-003**	**R1911947-004**	**R1911947-005**
Endrin	mg/Kg-dry	0.014	89.0	0.06	ND	ND	ND	ND
Endrin Aldehyde	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
Endrin Ketone	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
Heptachlor	mg/Kg-dry	0.042	15.0	N/A	ND	ND	ND	ND
Heptachlor Epoxide	mg/Kg-dry	N/A	N/A	0.02	ND	ND	ND	ND
Methoxychlor	mg/Kg-dry	N/A	N/A	100	ND	ND	ND	ND
Toxaphene	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
alpha-BHC	mg/Kg-dry	0.02	3.4	0.02	ND	ND	ND	ND
alpha-Chlordane	mg/Kg-dry	0.094	24	2.9	ND	ND	ND	ND
beta-BHC	mg/Kg-dry	0.036	3.0	0.09	ND	ND	ND	ND
delta-BHC	mg/Kg-dry	0.04	500	0.25	ND	ND	ND	ND
gamma-BHC (Lindane)	mg/Kg-dry	0.1	9.2	0.1	ND	ND	ND	ND
gamma-Chlordane	mg/Kg-dry	N/A	N/A	14	ND	0.0059 J	ND	ND
Method: 8082A/PCB								
Aroclor 1016	mg/Kg-dry	0.1	1	3.2	ND	ND	ND	ND
Aroclor 1221	mg/Kg-dry	0.1	1	3.2	ND	ND	ND	ND
Aroclor 1232	mg/Kg-dry	0.1	1	3.2	ND	ND	ND	ND
Aroclor 1242	mg/Kg-dry	0.1	1	3.2	ND	ND	ND	ND
Aroclor 1248	mg/Kg-dry	0.1	1	3.2	ND	**0.15**	ND	ND
Aroclor 1254	mg/Kg-dry	0.1	1	3.2	ND	**0.11**	ND	ND
Aroclor 1260	mg/Kg-dry	0.1	1	3.2	ND	0.039 J	ND	ND
Total PCB	mg/Kg-dry	0.1	1	3.2	ND	**0.299**	ND	ND
Method: 8151A/HERB								
2,4,5-T	mg/Kg-dry	N/A	N/A	1.9	ND	ND	ND	ND
2,4,5-TP	mg/Kg-dry	3.8	500	3.8	ND	ND	ND	ND
2,4-D	mg/Kg-dry	N/A	N/A	0.5	ND	ND	ND	ND
Dicamba	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
Method: 8260C/VOC FP								
1,1,1-Trichloroethane (TCA)	mg/Kg-dry	0.68	500	0.68	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
1,1,2-Trichloroethane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	mg/Kg-dry	0.27	240	0.27	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)	mg/Kg-dry	0.33	500	0.33	ND	ND	ND	ND

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TABLE 5
Subsurface Soil Analytical Results
Former Bisonite Paint Company
Site Code C915010
2266 - 2268 Military Road
Tonawanda, New York

			Sample ID (Interval)		SB10 12' - 14'	SB11 1' - 2'	SB11 6' - 8'	SB11 6' - 8' Dup
ANALYTE	**UNITS**	**Unrestricted Use SCO**	**-375-6.8 Soil Cleanup-Restricted Use-Commercial**	**-375-6.8 Soil Cleanup for Protection of Groundwater**	**R1911947-009**	**R1911947-003**	**R1911947-004**	**R1911947-005**
1,2,3-Trichlorobenzene	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
1,2,4-Trichlorobenzene	mg/Kg-dry	N/A	N/A	3.4	ND	ND	ND	ND
(DBCP)	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
1,2-Dibromoethane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
1,2-Dichlorobenzene	mg/Kg-dry	1.1	500	1.1	ND	ND	ND	ND
1,2-Dichloroethane	mg/Kg-dry	0.02	30.0	0.02	ND	ND	ND	ND
1,2-Dichloropropane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
1,3-Dichlorobenzene	mg/Kg-dry	2.4	280	2.4	ND	ND	ND	ND
1,4-Dichlorobenzene	mg/Kg-dry	1.8	130	1.8	ND	ND	ND	ND
1,4-Dioxane	mg/Kg-dry	0.1	130	0.1	ND	ND	ND	ND
2-Butanone (MEK)	mg/Kg-dry	0.12	500	0.12	0.0031 J	0.046	ND	0.0022 J
2-Hexanone	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
4-Methyl-2-pentanone	mg/Kg-dry	N/A	N/A	1	ND	ND	ND	ND
Acetone	mg/Kg-dry	0.05	500	0.05	**0.14 E ***	**0.32 E ***	0.0067	**0.071 ***
Benzene	mg/Kg-dry	0.06	44.0	0.06	ND	0.011	ND	ND
Bromochloromethane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
Bromodichloromethane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
Bromoform	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
Bromomethane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
Carbon Disulfide	mg/Kg-dry	N/A	N/A	2.7	ND	0.00044 J	ND	ND
Carbon Tetrachloride	mg/Kg-dry	0.76	22.0	0.76	ND	ND	ND	ND
Chlorobenzene	mg/Kg-dry	1.1	500	1.1	ND	ND	ND	ND
Chloroethane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
Chloroform	mg/Kg-dry	0.37	350	0.37	ND	ND	ND	ND
Chloromethane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
Cyclohexane	mg/Kg-dry	N/A	N/A	N/A	ND	0.0016 J	ND	ND
Dibromochloromethane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
Dichloromethane	mg/Kg-dry	0.05	500	N/A	ND	ND	ND	ND
Ethylbenzene	mg/Kg-dry	1.0	390	1.0	ND	0.00021 J	ND	ND
Isopropylbenzene (Cumene)	mg/Kg-dry	N/A	N/A	2.3	ND	0.0038	ND	ND
Methyl Acetate	mg/Kg-dry	N/A	N/A	N/A	0.022	0.024	ND	0.03
Methyl tert-Butyl Ether	mg/Kg-dry	0.93	500	0.93	0.00025 J	0.00033 J	ND	0.00019 J
Methylcyclohexane	mg/Kg-dry	N/A	N/A	N/A	ND	0.0072	ND	ND

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TABLE 5
Subsurface Soil Analytical Results
Former Bisonite Paint Company
Site Code C915010
2266 - 2268 Military Road
Tonawanda, New York

			Sample ID (Interval)		SB10 12' - 14'	SB11 1' - 2'	SB11 6' - 8'	SB11 6' - 8' Dup
ANALYTE	**UNITS**	**Unrestricted Use SCO**	**-375-6.8 Soil Cleanup-Restricted Use-Commercial**	**-375-6.8 Soil Cleanup for Protection of Groundwater**	**R1911947-009**	**R1911947-003**	**R1911947-004**	**R1911947-005**
Styrene	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
Tetrachloroethene (PCE)	mg/Kg-dry	1.3	150	1.3	ND	ND	ND	ND
Toluene	mg/Kg-dry	0.7	500	0.7	0.00022 J	0.00077 J	0.00022 J	0.00046 J
Trichloroethene (TCE)	mg/Kg-dry	0.47	200	0.47	ND	ND	ND	ND
Vinyl Chloride	mg/Kg-dry	0.02	13.0	0.02	ND	0.00037 J	ND	ND
cis-1,2-Dichloroethene	mg/Kg-dry	0.25	500	0.25	ND	0.00035 J	ND	ND
cis-1,3-Dichloropropene	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
m,p-Xylenes	mg/Kg-dry	0.26	500	1.6	ND	0.011	ND	ND
o-Xylene	mg/Kg-dry	0.26	500	1.6	ND	0.0021 J	ND	ND
trans-1,2-Dichloroethene	mg/Kg-dry	0.19	500	N/A	ND	ND	ND	ND
trans-1,3-Dichloropropene	ug/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
Total TICs	mg/Kg-dry				0.0132	0.9352	0.0	0.0111
Method: 8270D/SVO								
1,2,4,5-Tetrachlorobenzene	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
2,2'-Oxybis(1-chloropropane)	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
2,3,4,6-Tetrachlorophenol	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
2,4,5-Trichlorophenol	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
2,4,6-Trichlorophenol	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
2,4-Dichlorophenol	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
2,4-Dimethylphenol	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
2,4-Dinitrophenol	mg/Kg-dry	N/A	N/A	0.2	ND	ND	ND	ND
2,4-Dinitrotoluene	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
2,6-Dinitrotoluene	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
2-Chloronaphthalene	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
2-Chlorophenol	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
2-Methylnaphthalene	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
2-Methylphenol	mg/Kg-dry	0.33	500	N/A	ND	ND	ND	ND
2-Nitroaniline	mg/Kg-dry	N/A	N/A	0.4	ND	ND	ND	ND
2-Nitrophenol	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
3,3'-Dichlorobenzidine	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
3- and 4-Methylphenol Coelution	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
3-Nitroaniline	mg/Kg-dry	N/A	N/A	0.5	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND

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Former Bisonite Paint Company
Site Code C915010
2266 - 2268 Military Road
Tonawanda, New York

			Sample ID (Interval)		SB10 12' - 14'	SB11 1' - 2'	SB11 6' - 8'	SB11 6' - 8' Dup
ANALYTE	**UNITS**	**Unrestricted Use SCO**	**-375-6.8 Soil Cleanup-Restricted Use-Commercial**	**-375-6.8 Soil Cleanup for Protection of Groundwater**	**R1911947-009**	**R1911947-003**	**R1911947-004**	**R1911947-005**
4-Bromophenyl Phenyl Ether	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
4-Chloro-3-methylphenol	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
4-Chloroaniline	mg/Kg-dry	N/A	N/A	0.22	ND	ND	ND	ND
4-Chlorophenyl Phenyl Ether	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
4-Nitroaniline	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
4-Nitrophenol	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
Acenaphthene	mg/Kg-dry	20.0	500	98.0	ND	ND	ND	ND
Acenaphthylene	mg/Kg-dry	100	500	107	ND	ND	ND	ND
Acetophenone	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
Anthracene	mg/Kg-dry	100	500	1000	ND	ND	0.14 J	ND
Atrazine	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
Benz(a)anthracene	mg/Kg-dry	1.0	5.6	1.0	ND	ND	0.62	ND
Benzaldehyde	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
Benzo(a)pyrene	mg/Kg-dry	1.0	1.0	22.0	ND	ND	0.58	ND
Benzo(b)fluoranthene	mg/Kg-dry	1.0	5.6	1.7	ND	ND	0.79	ND
Benzo(g,h,i)perylene	mg/Kg-dry	100	500	1000	ND	ND	0.41	ND
Benzo(k)fluoranthene	mg/Kg-dry	0.8	56.0	1.7	ND	ND	0.31 J	ND
Biphenyl	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
Bis(2-chloroethoxy)methane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
Bis(2-chloroethyl) Ether	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
Bis(2-ethylhexyl) Phthalate	mg/Kg-dry	N/A	N/A	100	ND	ND	ND	ND
Butyl Benzyl Phthalate	mg/Kg-dry	N/A	N/A	100	ND	ND	ND	ND
Caprolactam	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
Carbazole	mg/Kg-dry	N/A	N/A	N/A	ND	ND	0.16 J	ND
Chrysene	mg/Kg-dry	1.0	56.0	1.0	ND	ND	0.64	ND
Di-n-butyl Phthalate	mg/Kg-dry	N/A	N/A	8.1	ND	ND	ND	ND
Di-n-octyl Phthalate	mg/Kg-dry	N/A	N/A	100	ND	ND	ND	ND
Dibenz(a,h)anthracene	mg/Kg-dry	0.33	0.56	1000	ND	ND	ND	ND
Dibenzofuran	mg/Kg-dry	7.0	350	210	ND	ND	ND	ND
Diethyl Phthalate	mg/Kg-dry	N/A	N/A	7.1	ND	ND	ND	ND
Dimethyl Phthalate	mg/Kg-dry	N/A	N/A	7	ND	ND	ND	ND
Fluoranthene	mg/Kg-dry	100	500	1000	ND	ND	1.3	ND
Fluorene	mg/Kg-dry	30.0	500	386	ND	ND	ND	ND

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2266 - 2268 Military Road
Tonawanda, New York

			Sample ID (Interval)		SB10 12' - 14'	SB11 1' - 2'	SB11 6' - 8'	SB11 6' - 8' Dup
ANALYTE	**UNITS**	**Unrestricted Use SCO**	**-375-6.8 Soil Cleanup-Restricted Use-Commercial**	**-375-6.8 Soil Cleanup for Protection of Groundwater**	**R1911947-009**	**R1911947-003**	**R1911947-004**	**R1911947-005**
Hexachlorobenzene	mg/Kg-dry	0.33	6.0	N/A	ND	ND	ND	ND
Hexachlorobutadiene	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
Hexachlorocyclopentadiene	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
Hexachloroethane	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	mg/Kg-dry	0.5	5.6	8.2	ND	ND	0.44	ND
Isophorone	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
N-Nitrosodi-n-propylamine	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
N-Nitrosodiphenylamine	mg/Kg-dry	N/A	N/A	N/A	ND	ND	ND	ND
Naphthalene	mg/Kg-dry	12.0	500	12.0	ND	ND	ND	ND
Nitrobenzene	mg/Kg-dry	N/A	69	0.33	ND	ND	ND	ND
Pentachlorophenol (PCP)	mg/Kg-dry	0.8	6.7	0.8	ND	ND	ND	ND
Phenanthrene	mg/Kg-dry	100	500	1000	ND	ND	0.65	ND
Phenol	mg/Kg-dry	0.33	500	0.33	ND	ND	ND	ND
Pyrene	mg/Kg-dry	100	500	1000	ND	ND	1.3	ND
Total TICs					20.0	6.1	6.08	29.0
Method: 9012B/CN Tot								
Cyanide, Total	mg/Kg-dry	27.0	27.0	40	ND	ND	ND	ND
Method: ALS SOP/Total Solids								
Total Solids	Percent	N/A	N/A	N/A	90.5	79.5	88.8	89.4

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TABLE 6
Soil Analysis Results for Emerging Contaminants and 1,4-Dioxane
Former Bisonite Paint Company
Site Code C915010
2266 and 2268 Military Road
Tonawanda, New York

ANALYTE	RESULT REPORTED TO	UNITS	Sample ID (Interval)	SB3 10' - 12'	SB8 1' - 2'	SB9 2' - 4'	PFAS Field Blank	Field Blank S
			Unrestricted Use SCO	R1911944 001	R1911944 004	R1911944 005	R1911944 002	R1911944 003
Method: 8270D SIM/1,4-Dioxane								
1,4 Dioxane	MDL	ug/L	N/A					0.027 U
Method: 8270D/SVO LL								
1,4 Dioxane	MDL	mg/Kg dry	0.1	0.012 U	0.012 U	0.012 U		
Method: ALS SOP/Total Solids								
Total Solids	MDL	Percent	N/A	87.7	86.8	89.5		
Method: PFC/537M/PFAS								
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	MDL	ng/g dry	N/A	0.17 U	0.15 U	0.15 U		
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	MDL	ng/L	N/A				0.55 U	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	MDL	ng/g dry	N/A	0.032 U	0.029 U	0.029 U		
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	MDL	ng/L	N/A				0.15 U	
N Ethyl perfluorooctane sulfonamidoacetic acid	MDL	ng/g dry	N/A	0.22 U	0.20 U	0.20 U		
N Ethyl perfluorooctane sulfonamidoacetic acid	MDL	ng/L	N/A				0.50 U	
N Methyl perfluorooctane sulfonamidoacetic acid	MDL	ng/g dry	N/A	0.30 U	0.27 U	0.27 U		
N Methyl perfluorooctane sulfonamidoacetic acid	MDL	ng/L	N/A				1.4 U	
Perfluorobutane sulfonic acid (PFBS)	MDL	ng/g dry	N/A	0.24 U	0.22 U	0.22 U		
Perfluorobutane sulfonic acid (PFBS)	MDL	ng/L	N/A				0.28 U	
Perfluorobutanoic acid (PFBA)	MDL	ng/g dry	N/A	0.43 U	0.39 U	0.39 U		
Perfluorobutanoic acid (PFBA)	MDL	ng/L	N/A				0.40 U	
Perfluorodecane sulfonic acid (PFDS)	MDL	ng/g dry	N/A	0.19 U	0.17 U	0.17 U		
Perfluorodecane sulfonic acid (PFDS)	MDL	ng/L	N/A				0.30 U	
Perfluorodecanoic acid (PFDA)	MDL	ng/g dry	N/A	0.29 U	0.26 U	0.26 U		
Perfluorodecanoic acid (PFDA)	MDL	ng/L	N/A				1.2 U	
Perfluorododecanoic acid (PFDoDA)	MDL	ng/g dry	N/A	0.30 U	0.27 U	0.27 U		
Perfluorododecanoic acid (PFDoDA)	MDL	ng/L	N/A				1.3 U	
Perfluoroheptane sulfonic acid (PFHpS)	MDL	ng/g dry	N/A	0.067 U	0.062 U	0.062 U		
Perfluoroheptane sulfonic acid (PFHpS)	MDL	ng/L	N/A				0.44 U	
Perfluoroheptanoic acid (PFHpA)	MDL	ng/g dry	N/A	0.21 U	0.19 U	0.19 U		
Perfluoroheptanoic acid (PFHpA)	MDL	ng/L	N/A				0.63 U	
Perfluorohexane sulfonic acid (PFHxS)	MDL	ng/g dry	N/A	0.33 U	0.30 U	0.30 U		
Perfluorohexane sulfonic acid (PFHxS)	MDL	ng/L	N/A				1.3 U	
Perfluorohexanoic acid (PFHxA)	MDL	ng/g dry	N/A	0.34 U	0.31 U	0.31 U		
Perfluorohexanoic acid (PFHxA)	MDL	ng/L	N/A				8.8 U	
Perfluorononanoic acid (PFNA)	MDL	ng/g dry	N/A	0.36 U	0.33 U	0.33 U		
Perfluorononanoic acid (PFNA)	MDL	ng/L	N/A				1.1 U	
Perfluorooctane sulfonamide (FOSA)	MDL	ng/g dry	N/A	0.073 U	0.067 U	0.067 U		
Perfluorooctane sulfonamide (FOSA)	MDL	ng/L	N/A				0.52 U	
Perfluorooctane sulfonic acid (PFOS)	MDL	ng/g dry	N/A	0.15 U	0.13 U	0.13 U		
Perfluorooctane sulfonic acid (PFOS)	MDL	ng/L	N/A				0.44 U	
Perfluorooctanoic acid (PFOA)	MDL	ng/g dry	N/A	0.15 U	0.14 J	0.13 U		
Perfluorooctanoic acid (PFOA)	MDL	ng/L	N/A				0.35 U	
Perfluoropentanoic acid (PFPeA)	MDL	ng/g dry	N/A	0.23 U	0.21 U	0.21 U		
Perfluoropentanoic acid (PFPeA)	MDL	ng/L	N/A				1.7 U	
Perfluorotetradecanoic acid (PFTeDA)	MDL	ng/g dry	N/A	0.20 U	0.18 U	0.18 U		
Perfluorotetradecanoic acid (PFTeDA)	MDL	ng/L	N/A				2.0 U	
Perfluorotridecanoic acid (PFTrDA)	MDL	ng/g dry	N/A	0.23 U	0.21 U	0.21 U		
Perfluorotridecanoic acid (PFTrDA)	MDL	ng/L	N/A				1.3 U	
Perfluoroundecanoic acid (PFUnDA)	MDL	ng/g dry	N/A	0.20 U	0.18 U	0.18 U		
Perfluoroundecanoic acid (PFUnDA)	MDL	ng/L	N/A				1.5 U	

Notes:
Units as shown.
MDL = Method detection limit.
U = Value is = MDL.

TABLE 7
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ANALYTE	RESULT REPORTED TO	UNITS	NYSDEC TOGS	MW1 R2000775-003	MW2 R2000775-004	MW2 DUP R2000775-008	MW3 R2000775-009	MW4 R2000775-001	MW4 FP R2000775-002	MW5 R2000775-005	Equipment Blank R2000775-006	Trip Blank R2000775-007
Metals												
Aluminum, Total	MDL	ug/L	N/A	5350	240	230	580	7020	5880	ND	ND	
Antimony, Total	MDL	ug/L	3	ND	ND	ND	6 J	**105**	**95**	ND	ND	
Arsenic, Total	MDL	ug/L	25	4 J	ND	ND	6 J	22	**26**	ND	ND	
Barium, Total	MDL	ug/L	1000	128	19 J	19 J	290	**1050**	955	50	ND	
Beryllium, Total	MDL	ug/L	3	ND	ND	ND	ND	0.3 J	0.2 J	ND	ND	
Cadmium, Total	MDL	ug/L	5	1.0 J	ND	ND	ND	**8.5**	**8.6**	ND	ND	
Calcium, Total	MDL	ug/L	N/A	119000	40700	40300	125000	335000	291000	118000	ND	
Chromium, Total	MDL	ug/L	50	19	1 J	1 J	7 J	**55**	**73**	ND	ND	
Cobalt, Total	MDL	ug/L	N/A	2 J	ND	ND	20 J	127	126	ND	ND	
Copper, Total	MDL	ug/L	N/A	10 J	ND	ND	13 J	50	42	ND	ND	
Iron, Total	MDL	ug/L	300	**4070**	140	140	**4940**	**63800**	**44800**	**460**	ND	
Lead, Total	MDL	ug/L	25	17 J	ND	ND	**41 J**	**2830**	**2260**	ND	ND	
Magnesium, Total	MDL	ug/L	35000	**89200**	4500	4900	**35300**	**129000**	**130000**	**85500**	ND	
Manganese, Total	MDL	ug/L	300	220	26	32	**488**	**6430**	**6060**	17	ND	
Mercury, Total	MDL	ug/L	0.4	**0.49**	ND	ND	ND	**3.19**	**2.14**	ND	ND	
Nickel, Total	MDL	ug/L	100	ND	ND	ND	ND	ND	ND	ND	ND	
Potassium, Total	MDL	ug/L	N/A	6900	1600 J	1500 J	14300	80500	82600	3200	ND	
Selenium, Total	MDL	ug/L	10	ND	ND	ND	ND	ND	ND	ND	ND	
Silver, Total	MDL	ug/L	50	ND	ND	ND	ND	ND	ND	ND	ND	
Sodium, Total	MDL	ug/L	20000	**47000**	5000	4900	**31600**	**961000**	**927000**	**81600**	ND	
Thallium, Total	MDL	ug/L	0.05	ND	ND	ND	ND	ND	ND	ND	ND	
Vanadium, Total	MDL	ug/L	N/A	9 J	ND	ND	6 J	16 J	13 J	ND	ND	
Zinc, Total	MDL	ug/L	2000	41	14 J	ND	846	**160000**	**155000**	ND	ND	
Method: 8081B/Pest OC												
4,4'-DDD	MDL	ug/L	0.3		ND	ND	ND	ND	ND	ND	ND	
4,4'-DDE	MDL	ug/L	0.2		ND	ND	ND	**3.0**	**2.3**	ND	ND	
4,4'-DDT	MDL	ug/L	0.2		ND	ND	ND	**1.6 P**	**1.3 P**	ND	ND	
Aldrin	MDL	ug/L	ND		ND	ND	ND	ND	ND	ND	ND	
Dieldrin	MDL	ug/L	0.004		ND	ND	ND	**0.51 J**	**0.48 J**	ND	ND	
Endosulfan I	MDL	ug/L	N/A		ND	ND	ND	ND	ND	ND	ND	
Endosulfan II	MDL	ug/L	N/A		ND	ND	ND	ND	ND	ND	ND	
Endosulfan Sulfate	MDL	ug/L	N/A		ND	ND	ND	ND	ND	ND	ND	
Endrin	MDL	ug/L	ND		ND	ND	ND	**0.42 J**	ND	ND	ND	

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Endrin Aldehyde	MDL	ug/L	5		ND	ND	ND	ND	ND	ND	ND	
Endrin Ketone	MDL	ug/L	5		ND	ND	ND	ND	ND	ND	ND	
Heptachlor	MDL	ug/L	0.05		ND	ND	ND	ND	ND	ND	ND	
Heptachlor Epoxide	MDL	ug/L	0.03		ND	ND	ND	ND	ND	ND	ND	
Methoxychlor	MDL	ug/L	35		ND	ND	ND	ND	ND	ND	ND	
Toxaphene	MDL	ug/L	0.06		ND	ND	ND	ND	ND	ND	ND	
alpha-BHC	MDL	ug/L	N/A		ND	ND	ND	ND	ND	ND	ND	
alpha-Chlordane	MDL	ug/L	0.05		ND	ND	ND	ND	ND	ND	ND	
beta-BHC	MDL	ug/L	N/A		ND	ND	ND	3.5 P	2.3 P	ND	ND	
delta-BHC	MDL	ug/L	N/A		ND	ND	ND	ND	ND	ND	ND	
gamma-BHC (Lindane)	MDL	ug/L	N/A		ND	ND	ND	ND	ND	ND	ND	
gamma-Chlordane	MDL	ug/L	0.05		ND	ND	ND	ND	ND	ND	ND	
Method: 8082A/PCB												
Aroclor 1016	MDL	ug/L	0.09	ND	ND	ND	ND	ND	ND	ND	ND	
Aroclor 1221	MDL	ug/L	0.09	ND	ND	ND	ND	ND	ND	ND	ND	
Aroclor 1232	MDL	ug/L	0.09	ND	ND	ND	ND	ND	ND	ND	ND	
Aroclor 1242	MDL	ug/L	0.09	ND	ND	ND	ND	ND	ND	ND	ND	
Aroclor 1248	MDL	ug/L	0.09	ND	ND	ND	ND	**120.0**	**92**	ND	ND	
Aroclor 1254	MDL	ug/L	0.09	ND	ND	ND	ND	**77.0**	**66**	ND	ND	
Aroclor 1260	MDL	ug/L	0.09	ND	ND	ND	ND	**25.0**	**21**	ND	ND	
Total PCB			0.09					**222.0**	**179**			
Method: 8151A/HERB												
2,4,5-T	MDL	ug/L	35		ND	ND	ND	ND	ND	ND	ND	
2,4,5-TP	MDL	ug/L	0.3		ND	ND	ND	ND	ND	ND	ND	
2,4-D	MDL	ug/L	5		ND	ND	ND	ND	ND	ND	ND	
Dicamba	MDL	ug/L	0.44		ND	ND	ND	ND	ND	ND	ND	
Dinoseb	MDL	ug/L	1		ND	ND	ND	ND	ND	ND	ND	
Pentachlorophenol (PCP)	MDL	ug/L	1		ND	ND	ND	ND	ND	ND	ND	
Method: 8260C/VOC FP												
1,1,1-Trichloroethane (TCA)	MDL	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	MDL	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	MDL	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	MDL	ug/L	1	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	MDL	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)	MDL	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	MDL	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	MDL	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND

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1,2-Dibromo-3-chloropropane (DBCP)	MDL	ug/L	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	MDL	ug/L	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	MDL	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	MDL	ug/L	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	MDL	ug/L	5	ND	ND	ND	**140 J**	**140 J**	ND	ND	ND	ND
1,3-Dichlorobenzene	MDL	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	MDL	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	MDL	ug/L	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	MDL	ug/L	50	ND	ND	ND	**52000 D**	**850000 D**	**590000 D**	ND	ND	ND
2-Hexanone	MDL	ug/L	50	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	MDL	ug/L	N/A	ND	ND	ND	5300	36000	24000	ND	ND	ND
Acetone	MDL	ug/L	50	2.9 BJ	2.5 BJ	2.6 BJ	**1100 J**	**15000**	**10000**	ND	ND	ND
Benzene	MDL	ug/L	5	ND	ND	ND	**68 J**	ND	ND	ND	ND	ND
Bromochloromethane	MDL	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	MDL	ug/L	50	ND	ND	ND	ND	ND	**260 J**	ND	ND	ND
Bromoform	MDL	ug/L	50	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	MDL	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	MDL	ug/L	60	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	MDL	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	MDL	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	MDL	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	MDL	ug/L	7	ND	ND	ND	**180 J**	**380 J**	**980**	ND	ND	ND
Chloromethane	MDL	ug/L	5	0.32 J	0.53 J	0.32 J	ND	ND	ND	ND	ND	ND
Cyclohexane	MDL	ug/L	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	MDL	ug/L	50	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (CFC 12)	MDL	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichloromethane	MDL	ug/L	5	ND	ND	ND	**250 J**	**310 J**	**250 J**	ND	ND	ND
Ethylbenzene	MDL	ug/L	5	ND	ND	ND	**860**	**1800**	**2000**	ND	ND	ND
Isopropylbenzene (Cumene)	MDL	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Acetate	MDL	ug/L	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-Butyl Ether	MDL	ug/L	10	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane	MDL	ug/L	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	MDL	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	MDL	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	MDL	ug/L	5	ND	ND	ND	**15000**	**45000**	**25000**	ND	1.3	ND
Trichloroethene (TCE)	MDL	ug/L	5	ND	**8.1**	1.8	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (CFC 11)	MDL	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Vinyl Chloride	MDL	ug/L	2	ND	0.37 J	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	MDL	ug/L	5	ND	**13**	2.8	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	MDL	ug/L	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes	MDL	ug/L	10	ND	ND	ND	**3200**	**7400**	**7800**	ND	ND	ND
o-Xylene	MDL	ug/L	5	ND	ND	ND	**990**	**1400**	**1100**	ND	ND	ND
trans-1,2-Dichloroethene	MDL	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	MDL	ug/L	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total TICs				0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Method: 8270D SIM/1,4-Dioxane												
1,4-Dioxane	MDL	ug/L	N/A	NS	ND	0.044	NS	NS	NS	NS	ND	NR
Method: 8270D/SVO												NR
1,2,4,5-Tetrachlorobenzene	MDL	ug/L	N/A	NS	ND	ND	ND	ND	ND	ND	ND	NR
2,2'-Oxybis(1-chloropropane)	MDL	ug/L	1	NS	ND	ND	ND	ND	ND	ND	ND	NR
2,3,4,6-Tetrachlorophenol	MDL	ug/L	1	NS	ND	ND	ND	ND	ND	ND	ND	NR
2,4,5-Trichlorophenol	MDL	ug/L	1	NS	ND	ND	ND	ND	ND	ND	ND	NR
2,4,6-Trichlorophenol	MDL	ug/L	1	NS	ND	ND	ND	ND	ND	ND	ND	NR
2,4-Dichlorophenol	MDL	ug/L	1	NS	ND	ND	ND	ND	ND	ND	ND	NR
2,4-Dimethylphenol	MDL	ug/L	1	NS	ND	ND	ND	ND	ND	ND	ND	NR
2,4-Dinitrophenol	MDL	ug/L	1	NS	ND	ND	ND	ND	ND	ND	ND	NR
2,4-Dinitrotoluene	MDL	ug/L	N/A	NS	ND	ND	ND	ND	ND	ND	ND	NR
2,6-Dinitrotoluene	MDL	ug/L	N/A	NS	ND	ND	ND	ND	ND	ND	ND	NR
2-Chloronaphthalene	MDL	ug/L	N/A	NS	ND	ND	ND	ND	ND	ND	ND	NR
2-Chlorophenol	MDL	ug/L	1	NS	ND	ND	ND	ND	ND	ND	ND	NR
2-Methylnaphthalene	MDL	ug/L	N/A	NS	ND	ND	3.3 J	10 U	25 J	ND	ND	NR
2-Methylphenol	MDL	ug/L	1	NS	ND	ND	**12**	**43 J**	**39 J**	ND	ND	NR
2-Nitroaniline	MDL	ug/L	N/A	NS	ND	ND	ND	ND	ND	ND	ND	NR
2-Nitrophenol	MDL	ug/L	1	NS	ND	ND	ND	ND	ND	ND	ND	NR
3,3'-Dichlorobenzidine	MDL	ug/L	N/A	NS	ND	ND	ND	ND	ND	ND	ND	NR
3- and 4-Methylphenol Coelution	MDL	ug/L	N/A	NS	ND	ND	39	240	200	ND	ND	NR
3-Nitroaniline	MDL	ug/L	5	NS	ND	ND	ND	ND	ND	ND	ND	NR
4,6-Dinitro-2-methylphenol	MDL	ug/L	1	NS	ND	ND	ND	ND	ND	ND	ND	NR
4-Bromophenyl Phenyl Ether	MDL	ug/L	N/A	NS	ND	ND	ND	ND	ND	ND	ND	NR
4-Chloro-3-methylphenol	MDL	ug/L	1	NS	ND	ND	ND	ND	ND	ND	ND	NR
4-Chloroaniline	MDL	ug/L	5	NS	ND	ND	ND	ND	ND	ND	ND	NR
4-Chlorophenyl Phenyl Ether	MDL	ug/L	N/A	NS	ND	ND	ND	ND	ND	ND	ND	NR
4-Nitroaniline	MDL	ug/L	5	NS	ND	ND	ND	ND	ND	ND	ND	NR
4-Nitrophenol	MDL	ug/L	1	NS	ND	ND	ND	ND	ND	ND	ND	NR

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Acenaphthene	MDL	ug/L	20	NS	ND	ND	ND	ND	ND	ND	ND	NR
Acenaphthylene	MDL	ug/L	N/A	NS	ND	ND	ND	ND	ND	ND	ND	NR
Acetophenone	MDL	ug/L	N/A	NS	ND	ND	24	360	ND	8.6 J	ND	NR
Anthracene	MDL	ug/L	50	NS	ND	ND	ND	ND	ND	ND	ND	NR
Atrazine	MDL	ug/L	8	NS	ND	ND	ND	ND	ND	ND	ND	NR
Benz(a)anthracene	MDL	ug/L	0.002	NS	ND	ND	ND	ND	ND	ND	ND	NR
Benzaldehyde	MDL	ug/L	N/A	NS	ND	ND	ND	ND	ND	ND	ND	NR
Benzo(a)pyrene	MDL	ug/L	0.002	NS	ND	ND	ND	ND	ND	ND	ND	NR
Benzo(b)fluoranthene	MDL	ug/L	0.002	NS	ND	ND	ND	ND	ND	ND	ND	NR
Benzo(g,h,i)perylene	MDL	ug/L	N/A	NS	ND	ND	ND	ND	ND	ND	ND	NR
Benzo(k)fluoranthene	MDL	ug/L	0.002	NS	ND	ND	ND	ND	ND	ND	ND	NR
Biphenyl	MDL	ug/L	5	NS	ND	ND	ND	ND	ND	ND	ND	NR
Bis(2-chloroethoxy)methane	MDL	ug/L	N/A	NS	ND	ND	ND	ND	ND	ND	ND	NR
Bis(2-chloroethyl) Ether	MDL	ug/L	1	NS	ND	ND	ND	ND	ND	ND	ND	NR
Bis(2-ethylhexyl) Phthalate	MDL	ug/L	5	NS	ND	ND	ND	ND	**830**	ND	ND	NR
Butyl Benzyl Phthalate	MDL	ug/L	50	NS	ND	ND	ND	ND	ND	ND	ND	NR
Caprolactam	MDL	ug/L	N/A	NS	ND	ND	ND	ND	ND	ND	ND	NR
Carbazole	MDL	ug/L	N/A	NS	ND	ND	ND	ND	ND	ND	ND	NR
Chrysene	MDL	ug/L	0.002	NS	ND	ND	ND	ND	ND	ND	ND	NR
Di-n-butyl Phthalate	MDL	ug/L	50	NS	ND	ND	ND	ND	ND	ND	ND	NR
Di-n-octyl Phthalate	MDL	ug/L	50	NS	ND	ND	ND	ND	ND	ND	ND	NR
Dibenz(a,h)anthracene	MDL	ug/L	N/A	NS	ND	ND	ND	ND	ND	ND	ND	NR
Dibenzofuran	MDL	ug/L	N/A	NS	ND	ND	ND	ND	ND	ND	ND	NR
Diethyl Phthalate	MDL	ug/L	50	NS	ND	ND	ND	ND	ND	ND	ND	NR
Dimethyl Phthalate	MDL	ug/L	N/A	NS	ND	ND	ND	ND	ND	ND	ND	NR
Fluoranthene	MDL	ug/L	50	NS	ND	ND	1.5 J	14 U	16 J	1.5 U	1.4 U	NR
Fluorene	MDL	ug/L	50	NS	ND	ND	ND	ND	ND	ND	ND	NR
Hexachlorobenzene	MDL	ug/L	0.04	NS	ND	ND	ND	ND	ND	ND	ND	NR
Hexachlorobutadiene	MDL	ug/L	0.5	NS	ND	ND	ND	ND	ND	ND	ND	NR
Hexachlorocyclopentadiene	MDL	ug/L	5	NS	ND	ND	ND	ND	ND	ND	ND	NR
Hexachloroethane	MDL	ug/L	5	NS	ND	ND	ND	ND	ND	ND	ND	NR
Indeno(1,2,3-cd)pyrene	MDL	ug/L	0.002	NS	ND	ND	ND	ND	ND	ND	ND	NR
Isophorone	MDL	ug/L	50	NS	ND	ND	ND	ND	ND	ND	ND	NR
N-Nitrosodi-n-propylamine	MDL	ug/L	N/A	NS	ND	ND	ND	ND	ND	ND	ND	NR
N-Nitrosodiphenylamine	MDL	ug/L	50	NS	ND	ND	ND	ND	ND	ND	ND	NR
Naphthalene	MDL	ug/L	10	NS	ND	ND	**20**	**11 J**	ND	ND	ND	NR
Nitrobenzene	MDL	ug/L	0.4	NS	ND	ND	ND	ND	ND	ND	ND	NR

Notes:
Bold = Exceeds TOGS.
MDL = Method detection limit.
ND = Not Detected or < MDL.
J = Value is >MDL and < lab reporting limit.
NS = Not Sampled
NR = Not Required

TABLE 7
Groundwater Analytical Results
Former Bisonite Paint Company
Site Code C915010
2266 and 2268 Military Road
Tonawanda, New York

Pentachlorophenol (PCP)	MDL	ug/L	1	NS	ND	ND	ND	ND	ND	ND	ND	NR
Phenanthrene	MDL	ug/L	50	NS	ND	ND	ND	ND	ND	ND	ND	NR
Phenol	MDL	ug/L	1	NS	ND	ND	**20**	**350**	**250**	**65**	ND	NR
Pyrene	MDL	ug/L	50	NS	ND	ND	ND	ND	ND	ND	ND	NR
Total TICs				Not Analyzed	0.0	0.0	1285	5440	9630	52.4		
Method: 9012B/CN Tot												
Cyanide, Total	MDL	mg/L	0.2	0.007 J	ND	ND	0.017	0.004 J	ND	ND	ND	

Notes:
Bold = Exceeds TOGS.
MDL = Method detection limit.
ND = Not Detected or < MDL.
J = Value is >MDL and < lab reporting limit.
NS = Not Sampled
NR = Not Required

TABLE 8
Emerging Contaminant and 1,4-Dioxane in Groundwater
Former Bisonite Paint Site
Site Code C915010
Tonawanda, New York

ANALYTE	RESULT REPORTED TO	UNITS	Guidance Value	MW3 R2000776-001	MW2 R2000776-002	MW2 DUP R2000776-003	Field Blank R2000776-004	Equipment Blank R2000776-005
Method: PFC/537M/PFAS								
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	MDL	ng/L		0.66 J	0.55 U	0.55 U	0.55 U	0.55 U
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	MDL	ng/L		0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
N-Ethyl perfluorooctane sulfonamidoacetic acid	MDL	ng/L		1.4 J	0.50 U	0.50 U	0.50 U	0.50 U
N-Methyl perfluorooctane sulfonamidoacetic acid	MDL	ng/L		1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Perfluorobutane sulfonic acid (PFBS)	MDL	ng/L		0.28 U	0.40 J	0.36 J	0.28 U	0.28 U
Perfluorobutanoic acid (PFBA)	MDL	ng/L		0.40 UX	3.4 J	3.3 J	0.40 U	0.40 U
Perfluorodecane sulfonic acid (PFDS)	MDL	ng/L		0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Perfluorodecanoic acid (PFDA)	MDL	ng/L		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Perfluorododecanoic acid (PFDoDA)	MDL	ng/L		1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Perfluoroheptane sulfonic acid (PFHpS)	MDL	ng/L		0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
Perfluoroheptanoic acid (PFHpA)	MDL	ng/L		0.63 U	0.73 J	1.9 J	0.63 U	0.63 U
Perfluorohexane sulfonic acid (PFHxS)	MDL	ng/L		1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Perfluorohexanoic acid (PFHxA)	MDL	ng/L		8.8 UX	8.8 U	8.8 U	8.8 U	8.8 U
Perfluorononanoic acid (PFNA)	MDL	ng/L		1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Perfluorooctane sulfonamide (FOSA)	MDL	ng/L		0.52 U	0.52 U	0.52 U	0.52 U	0.52 U
Perfluorooctane sulfonic acid (PFOS)	MDL	ng/L		2.3	1.5 J	1.7	0.44 U	0.44 U
Perfluorooctanoic acid (PFOA)	MDL	ng/L		11.0	1.4 J	1.3 J	0.35 U	0.35 U
Perfluoropentanoic acid (PFPeA)	MDL	ng/L		1.7 UX	1.7 U	1.7 U	1.7 U	1.7 U
Perfluorotetradecanoic acid (PFTeDA)	MDL	ng/L		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Perfluorotridecanoic acid (PFTrDA)	MDL	ng/L		1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Perfluoroundecanoic acid (PFUnDA)	MDL	ng/L		1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Total PFAS, PFOA, PFOS	MDL	ng/L	500	15.4	7.43 J	8.56	BDL	BDL

Notes:
ng/L = nanograms per liter.
MDL = Method detection limit.
U = Value is or < MDL.
J = Value > than MDL but < laboratory reporting limit.
X = Quality assurance exceedance.
BDL = below method detection level

TABLE 9
RI and Soil Vapor Intrusion Analytical Results
Former Bisonite Paint Company
Site C915010
2266 and 2268 Military Road
Tonawanda, New York

Lab Sample ID		L1180201-01		L1180201-03		L1180201-02		L1180201-04		L1180201-06		L1180201-05		L1180201-10		L1180201-11	
Client Sample ID		SV-1		INDOOR-1		DUPLICATE-INSIDE		SS-1		SS-2		OUTDOOR 1		MATRIX SPIKE		MS-DUPLICATE	
Date Collected		01/13/2020		01/13/2020		01/13/2020		01/13/2020		01/13/2020		01/13/2020		01/13/2020		01/13/2020	
Analyte	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
ACETONE	ug/m3	8.08		12.5		12		74.6		23.3		16.8		11.8		19	
ALLYL CHLORIDE	ug/m3	<0.626		<0.626		<0.626		<0.626		<0.626		<0.626		<0.626		<0.626	
BENZENE	ug/m3	0.99		1.14		1.07		1.23		<0.639		1.15		1.1		1.1	
BENZYL CHLORIDE	ug/m3	<1.04		<1.04		<1.04		<1.04		<1.04		<1.04		<1.04		<1.04	
BROMODICHLOROMETHANE	ug/m3	<1.34		<1.34		<1.34		<1.34		<1.34		<1.34		<1.34		<1.34	
BROMOFORM	ug/m3	<6.21		<6.21		<6.21		<6.21		<6.21		<6.21		<6.21		<6.21	
BROMOMETHANE	ug/m3	<0.776		<0.776		<0.776		<0.776		<0.776		<0.776		<0.776		<0.776	
1,3-BUTADIENE	ug/m3	<4.43		<4.43		<4.43		<4.43		<4.43		<4.43		<4.43		<4.43	
CARBON DISULFIDE	ug/m3	<0.622		<0.622		<0.622		<0.622		<0.622		<0.622		<0.622		<0.622	
CARBON TETRACHLORIDE	ug/m3	<1.26		<1.26		<1.26		<1.26		<1.26		<1.26		<1.26		<1.26	
CHLOROBENZENE	ug/m3	<0.924		<0.924		<0.924		<0.924		<0.924		<0.924		<0.924		<0.924	
CHLOROETHANE	ug/m3	<0.528		<0.528		<0.528		<0.528		<0.528		<0.528		<0.528		<0.528	
CHLOROFORM	ug/m3	<0.973		<0.973		<0.973		<0.973		<0.973		<0.973		<0.973		<0.973	
CHLOROMETHANE	ug/m3	0.423		1.58		1.52		1.55		<0.413		3.7		1.55		2.42	
2-CHLOROTOLUENE	ug/m3	<1.03		<1.03		<1.03		<1.03		<1.03		<1.03		<1.03		<1.03	
CYCLOHEXANE	ug/m3	14.9		<0.689		<0.689		<0.689		<0.689		<0.689		<0.689		<0.689	
CHLORODIBROMOMETHANE	ug/m3	<1.70		<1.70		<1.70		<1.70		<1.70		<1.70		<1.70		<1.70	
1,2-DIBROMOETHANE	ug/m3	<1.54		<1.54		<1.54		<1.54		<1.54		<1.54		<1.54		<1.54	
1,2-DICHLOROBENZENE	ug/m3	<1.20		<1.20		<1.20		<1.20		<1.20		<1.20		<1.20		<1.20	
1,3-DICHLOROBENZENE	ug/m3	<1.20		<1.20		<1.20		<1.20		<1.20		<1.20		<1.20		<1.20	
1,4-DICHLOROBENZENE	ug/m3	<1.20		<1.20		<1.20		<1.20		<1.20		<1.20		<1.20		<1.20	
1,2-DICHLOROETHANE	ug/m3	<0.810		<0.810		<0.810		<0.810		<0.810		<0.810		<0.810		<0.810	
1,1-DICHLOROETHANE	ug/m3	<0.802		<0.802		<0.802		<0.802		<0.802		<0.802		<0.802		<0.802	
1,1-DICHLOROETHENE	ug/m3	<0.793		<0.793		<0.793		<0.793		<0.793		<0.793		<0.793		<0.793	
CIS-1,2-DICHLOROETHENE	ug/m3	<0.793		<0.793		<0.793		<0.793		<0.793		<0.793		<0.793		<0.793	
TRANS-1,2-DICHLOROETHENE	ug/m3	<0.793		<0.793		<0.793		<0.793		<0.793		<0.793		<0.793		<0.793	
1,2-DICHLOROPROPANE	ug/m3	<0.924		<0.924		<0.924		<0.924		<0.924		<0.924		<0.924		<0.924	
CIS-1,3-DICHLOROPROPENE	ug/m3	<0.908		<0.908		<0.908		<0.908		<0.908		<0.908		<0.908		<0.908	
TRANS-1,3-DICHLOROPROPENE	ug/m3	<0.908		<0.908		<0.908		<0.908		<0.908		<0.908		<0.908		<0.908	
1,4-DIOXANE	ug/m3	<0.721		<0.721		<0.721		<0.721		0.894		1.36		<0.721		<0.721	
ETHANOL	ug/m3	5.09		13.4		24.7		23		13.6		6.01		13		21.3	
ETHYLBENZENE	ug/m3	4.81		1.2		1.3		1.66		<0.867		0.876		1.22		1.26	
4-ETHYLTOLUENE	ug/m3	<0.982		<0.982		<0.982		<0.982		<0.982		<0.982		<0.982		<0.982	
TRICHLOROFLUOROMETHANE	ug/m3	5.57		1.56		1.58		1.52		1.6		1.6		1.55		1.69	
DICHLORODIFLUOROMETHANE	ug/m3	2.39		3.58		3.39		3.66		2.99		3.03		3.7		3.4	

Notes
All concentrations in micrograms per cubic meter.
< Concentration is less than the method detection limit
SV = Soil vapor sample.
SS = Sub-slab sample.
shaded box = analyte detected

TABLE 9
RI and Soil Vapor Intrusion Analytical Results
Former Bisonite Paint Company
Site C915010
2266 and 2268 Military Road
Tonawanda, New York

Lab Sample ID		L1180201-01		L1180201-03		L1180201-02		L1180201-04		L1180201-06		L1180201-05		L1180201-10		L1180201-11	
Client Sample ID		SV-1		INDOOR-1		DUPLICATE-INSIDE		SS-1		SS-2		OUTDOOR 1		MATRIX SPIKE		MS-DUPLICATE	
Date Collected		01/13/2020		01/13/2020		01/13/2020		01/13/2020		01/13/2020		01/13/2020		01/13/2020		01/13/2020	
Analyte	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,2-TRICHLOROTRIFLUOROETHANE	ug/m3	<1.53		<1.53		<1.53		<1.53		<1.53		<1.53		<1.53		<1.53	
1,2-DICHLOROTETRAFLUOROETHANE	ug/m3	<1.40		<1.40		<1.40		<1.40		<1.40		<1.40		<1.40		<1.40	
HEPTANE	ug/m3	24.1		<0.818		<0.818		0.867		<0.818		<0.818		<0.818		<0.818	
HEXACHLORO-1,3-BUTADIENE	ug/m3	<6.73		<6.73		<6.73		<6.73		<6.73		<6.73		<6.73		<6.73	
N-HEXANE	ug/m3	20.2		0.913		0.867		1		<0.705		0.917		0.931		1.12	
ISOPROPYLBENZENE	ug/m3	<0.983		<0.983		<0.983		<0.983		<0.983		<0.983		<0.983		<0.983	
METHYLENE CHLORIDE	ug/m3	<0.694		0.74		1.02		0.844		<0.694		0.715		0.816		1.01	
METHYL BUTYL KETONE	ug/m3	<5.11		<5.11		<5.11		<5.11		<5.11		<5.11		<5.11		<5.11	
2-BUTANONE (MEK)	ug/m3	<3.69		<3.69		<3.69		8.96		11.5		<3.69		<3.69		3.69	
4-METHYL-2-PENTANONE (MIBK)	ug/m3	<5.12		<5.12		<5.12		<5.12		<5.12		<5.12		<5.12		<5.12	
METHYL METHACRYLATE	ug/m3	<0.819		<0.819		<0.819		<0.819		<0.819		<0.819		<0.819		<0.819	
METHYL TERT-BUTYL ETHER	ug/m3	<0.721		<0.721		<0.721		<0.721		<0.721		<0.721		<0.721		<0.721	
NAPHTHALENE	ug/m3	<3.30		<3.30		<3.30		<3.30		<3.30		<3.30		<3.30		<3.30	
2-PROPANOL	ug/m3	<3.07		3.1		<3.07		12.8		<3.07		<3.07		<3.07		3.29	
PROPENE	ug/m3	<0.689		<0.689		<0.689		<0.689		0.818	B	<0.689		<0.689		<0.689	
STYRENE	ug/m3	<0.851		<0.851		<0.851		<0.851		<0.851		<0.851		<0.851		<0.851	
1,1,2,2-TETRACHLOROETHANE	ug/m3	<1.37		<1.37		<1.37		<1.37		<1.37		<1.37		<1.37		<1.37	
TETRACHLOROETHENE	ug/m3	4.02		<1.36		<1.36		<1.36		2.93		<1.36		<1.36		<1.36	
TETRAHYDROFURAN	ug/m3	<0.590		<0.590		<0.590		<0.590		<0.590		2.56		<0.590		<0.590	
TOLUENE	ug/m3	18.6		9.94		10.5		12.1		0.9		2.57		10.5		10.5	
1,2,4-TRICHLOROBENZENE	ug/m3	<4.66		<4.66		<4.66		<4.66		<4.66		<4.66		<4.66		<4.66	
1,1,1-TRICHLOROETHANE	ug/m3	<1.09		<1.09		<1.09		<1.09		<1.09		<1.09		<1.09		<1.09	
1,1,2-TRICHLOROETHANE	ug/m3	<1.09		<1.09		<1.09		<1.09		<1.09		<1.09		<1.09		<1.09	
TRICHLOROETHENE	ug/m3	3.65		2.74		2.71		2.86		<1.07		<1.07		2.89		2.89	
1,2,4-TRIMETHYLBENZENE	ug/m3	<0.982		<0.982		1.15		<0.982		0.982		<0.982		<0.982		<0.982	
1,3,5-TRIMETHYLBENZENE	ug/m3	<0.982		<0.982		<0.982		<0.982		<0.982		<0.982		<0.982		<0.982	
2,2,4-TRIMETHYLPENTANE	ug/m3	5.7		<0.934		<0.934		<0.934		<0.934		<0.934		<0.934		2.07	
VINYL CHLORIDE	ug/m3	<0.511		<0.511		<0.511		<0.511		<0.511		<0.511		<0.511		<0.511	
VINYL BROMIDE	ug/m3	<0.875		<0.875		<0.875		<0.875		<0.875		<0.875		<0.875		<0.875	
VINYL ACETATE	ug/m3	<0.704		<0.704		<0.704		<0.704		<0.704		<0.704		<0.704		<0.704	
M&P-XYLENE	ug/m3	13.2		4.6		5.03		7.72		<1.73		2.98		4.73		4.9	
O-XYLENE	ug/m3	3.69		1.32		1.47		2.14		<0.867		<0.867		1.27		1.45	

Notes
All concentrations in micrograms per cubic meter.
< Concentration is less than the method detection limit
SV = Soil vapor sample.
SS = Sub-slab sample.
shaded box = analyte detected

TABLE 10
RI SVI Results Compared to NYSDOH Guidelines
Former Bisonite Paint Company
Site C915010
2266 and 2268 Military Road
Tonawanda, New York

Client Sample ID		Sub-slab Sample	Indoor Air	Recommended Action	SV-1		SS-1		SS-2		DUPLICATE-INSIDE		INDOOR-1		OUTDOOR 1	
Date Collected					01/13/2020		01/13/2020		01/13/2020		01/13/2020		01/13/2020		01/13/2020	
Analyte	Units				Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
METHYLENE CHLORIDE	ug/m3	<100	<10	No Further Action	<0.694		0.844		<0.694		1.02		0.74		0.715	
TETRACHLOROETHENE	ug/m3	<100	<10	No Further Action	4.02		<1.36		2.93		<1.36		<1.36		<1.36	
TRICHLOROETHENE	ug/m3	<60	>1	Further investigation and possible mitigation	3.65		2.86		<1.07		2.71		2.74		<1.07	

Notes:
All concentrations shown in micrograms per cubic meter.
< Concentration is less than the method detection limit.
SV = Soil vapor sample.
SS = Sub-slab sample.

RAAR TABLES

TABLE 14
COST ESTIMATE FOR COMMERCIAL USE TRACK 4 CLEANUP
Surface Soil (Alt. 2) Subsurface Soil Source Removal (Alt. 2)
Former Bisonite Paint Co. Site No. C915010
2266 and 2268 Militry Road
Tonawanda, New York

I. MANAGEMENT AND ENGINEERING SERVICES					
1.0	**Scheduling / Coordination**				$1,800.00
2.0	**Remedial Action Work Plan, HASP, CAMP, QAPP**				$10,000.00
3.0	**Contained In Determination Request Package**	1	Report	$1,100.00	$2,270.00
4.0	**Progress Reports**	12	Reports	$415.00	$4,980.00
5.0	**Site Management Plan**				$4,985.00
6.0	**Final Engineering Report**				$7,945.00
7.0	**Periodic Review Report**				$2,500.00
8.0	**DEC EQUIS Database Management**				$1,500.00
9.0	**Meetings**				$1,200.00
10.0	**Remediation Oversight / Project Management**				$20,000.00
11.0	**Post Excavation Groundwater Monitoring**	8	Events	$2,000.00	$16,000.00
	Management/Engineering Subtotal				**$73,180.00**
II. EXPENSES					
1.0	**Remediation, Well Monitoring / Sampling**	**Quantity**	**Unit**	**Rate**	**Total**
2.0	PID Meter Rental	2	Week	$300.00	$600.00
3.0	CAMP Monitoring Equipment (Upwind & Downwind)	2	Week	$996.00	$1,992.00
4.0	Peristaltic Pump - Monitoring	8	Sessions	$42.00	$336.00
5.0	Water Quality Meter - Monitoring	8	Sessions	$145.00	$1,160.00
7.0	6 mil Poly Sheting	4	Rolls	$190.00	$760.00
8.0	Disposable Tubing (100' roll) - Monitoring	1	Roll	$18.00	$18.00
9.0	Travel Expenses	10	Days	$150.00	$1,500.00
	Expenses Subtotal				**$6,366.00**
III.REMEDIAL CONTRACTOR SERVICES					
1.0	Mobilize/Demobilize	1	LS	$19,200.00	$19,200.00
2.0	Excavate and Stage **Lagoon Soil**	750	Tons	$34.50	$25,875.00
3.0	Load Contaminated **Lagoon Soil**	750	Tons	$6.00	$4,500.00
4.0	Transport and Dispose of Hazardous **Lagoon Soil**	250	Ton	$610.00	**$152,500.00**
5.0	Transport and Dispose of Non-Hazardous **Lagoon Soil**	500	Ton	$52.00	$26,000.00
6.0	Excavate and Stage **Surface Soils**	200	Tons	$34.50	$6,900.00
7.0	Load, Transport and Dispose of Non-Hazardous **Surface Soils**	200	Ton	$52.00	$10,400.00
8.0	Provide, Place and Compact Imported Crushed Stone	950	Tons	$31.50	$29,925.00
9.0	Install New Asphalt	6000	sq.ft.	$11.00	$66,000.00
10.0	Decontaminate Heavy Equipment/Vehicles	1	LS	$1,000.00	$1,000.00
11.0	Replace Three Overburden Monitoring Wells	3	Wells	$1,000.00	$3,000.00
12.0	Survey Features	1	LS	$4,200.00	$4,200.00
13.0	Laboratory Confirmatory Soil Samples(Pest, herbs, PCB, VOC, SVOC, Metals & Dup)	15	Samples	$400.00	$6,000.00
14.0	Laboratory Post GW Monitoring (Pest, herbs, PCB, VOC, SVOC, Metals	40	Samples	$400.00	$16,000.00
15.0	Laboratory (2 samples for Full RCRA TCLP, PCB, & misc. for disposal characterization)	2	Samples	$720.00	$1,440.00
16.0	Laboratory Periodic Air Sampling (Building)	6	Samples	$400.00	$2,400.00
17.0	Subcontractor - DUSRs	4	Reports	$1,200.00	$4,800.00
18.0	IDW Drum Disposal	2	Drum	$480.00	$960.00
		Total Management/Engineering Services Cost			**$73,180.00**
		Total Expense Cost			**$6,366.00**
		Subcontractor Total			**$381,100.00**
		Total Cost			**$460,646.00**

TABLE 15
COST ESTIMATE FOR COMMERCIAL USE TRACK 4 CLEANUP
Surface Soil Subsurface Soil Source Removal With ORC Enhancement
Former Bisonite Paint Co. Site No. C915010
2266 and 2268 Militry Road
Tonawanda, New York

I. MANAGEMENT AND ENGINEERING SERVICES					
1.0	**Scheduling / Coordination**				$1,800.00
2.0	**Remedial Action Work Plan, HASP, CAMP, QAPP, RAWP**				$10,000.00
3.0	**Contained In Determination Request Package**	1	Reports	$1,100.00	$2,270.00
4.0	**Progress Reports**	24	Reports	$415.00	$4,980.00
5.0	**Site Management Plan**				$4,985.00
6.0	**Final Engineering Report**				$7,945.00
7.0	**Periodic Review Report**				$2,500.00
8.0	**DEC EQUIS Database Management**				$1,500.00
9.0	**Meetings**				$1,200.00
10.0	**Remediation Oversight / Project Management**				$20,000.00
11.0	**Post Excavation Groundwater Monitoring**	8	Events	$2,000.00	$16,000.00
	Management/Engineering Subtotal				**$73,180.00**
II. EXPENSES					
1.0	**Remediation, Well Monitoring / Sampling**	**Quantity**	**Unit**	**Rate**	**Total**
2.0	**ORC Advanced Pellets**	3,400	Pounds	$13.00	$44,200.00
3.0	**ORC Advanced Freight**	1	LS	$2,000.00	$2,000.00
4.0	PID Meter Rental	2	Week	$300.00	$600.00
5.0	CAMP Monitoring Equipment (Upwind & Downwind)	2	Week	$996.00	$1,992.00
6.0	Peristaltic Pump - Monitoring	8	Sessions	$42.00	$336.00
7.0	Water Quality Meter - Monitoring	8	Sessions	$145.00	$1,160.00
8.0	Disposable Tubing (100' roll) - Monitoring	1	Roll	$18.00	$18.00
9.0	Poly Sheeting	2	Rolls	$190.00	$380.00
10.0	Travel Expenses	10	Days	$150.00	$1,500.00
	Expenses Subtotal				**$52,186.00**
III.REMEDIAL CONTRACTOR SERVICES					
1.0	Mobilize/Demobilize	1	LS	$19,200.00	$19,200.00
2.0	Excavate and Stage **Lagoon Soil**	900	Tons	$34.50	$31,050.00
3.0	Load Contaminated **Lagoon Soil**	900	Tons	$6.00	$5,400.00
4.0	Transport and Dispose of Hazardous **Lagoon Soil**	250	Ton	$610.00	**$152,500.00**
5.0	Transport and Dispose of Non-Hazardous **Lagoon Soil**	650	Ton	$52.00	$33,800.00
6.0	Excavate and Stage **Surface Soils**	200	Tons	$34.50	$6,900.00
7.0	Load, Transport and Dispose of Non-Hazardous **Surface Soils**	200	Ton	$52.00	$10,400.00
8.0	Handling & Placement of ORC Advanced	3400	Pounds	$2.50	$8,500.00
9.0	Provide, Place and Compact Imported Crushed Stone	950	Tons	$31.50	$29,925.00
10.0	Install New Asphalt	6000	sq.ft.	$11.00	$66,000.00
11.0	Decontaminate Heavy Equipment/Vehicles	1	LS	$1,000.00	$1,000.00
12.0	Replace Three Overburden Monitoring Wells	3	Wells	$1,000.00	$3,000.00
13.0	Survey Features	1	LS	$4,200.00	$4,200.00
14.0	Laboratory Confirmatory Soil Samples(Pest, herbs, PCB, VOC, SVOC, Metals & Dup)	15	Samples	$400.00	$6,000.00
15.0	Laboratory Post GW Monitoring (Pest, herbs, PCB, VOC, SVOC, Metals	40	Samples	$400.00	$16,000.00
16.0	Laboratory (2 samples for Full RCRA TCLP, PCB, & misc. for disposal characterization)	2	Samples	$720.00	$1,440.00
17.0	Laboratory Periodic Air Sampling (Building)	6	Samples	$400.00	$2,400.00
18.0	Subcontractor - DUSRs	4	Reports	$1,200.00	$4,800.00
19.0	IDW Drum Disposal	2	Drum	$480.00	$960.00
20.0	**Contractor Services Subtotal**				**$403,475.00**
		Total Management/Engineering Services Cost			**$73,180.00**
		Total Expense Cost			**$52,186.00**
		Subcontractor Total			**$403,475.00**
		Total Cost			**$528,841.00**

TABLE 16
COST ESTIMATE FOR COMMERCIAL USE (TRACK 1)
Surface Soil (Alt. 3) Subsurface Soil Source Removal (Alt 3)
Former Bisonite Paint Co. Site No. C915010
2266 and 2268 Militry Road
Tonawanda, New York

I. MANAGEMENT AND ENGINEERING SERVICES					
1.0	**Scheduling / Coordination**				$1,800.00
2.0	**Remedial Action Work Plan, HASP, CAMP, QAPP, RAWP**				$10,000.00
3.0	**Contained In Determination Request Package**	1	Reports	$1,100.00	$1,100.00
4.0	**Progress Reports**	12	Reports	$415.00	$4,980.00
5.0	**Site Management Plan**				$4,985.00
6.0	**Final Engineering Report**				$7,945.00
7.0	**Periodic Review Report**				$2,500.00
8.0	**DEC EQUIS Database Management**				$1,500.00
9.0	**Meetings**				$1,200.00
10.0	**Remediation Oversight / Project Management**				$20,000.00
11.0	**Post Excavation Groundwater Monitoring**	4	Events	$2,000.00	$8,000.00
	Management/Engineering Subtotal				**$64,010.00**
II. EXPENSES					
1.0	**Remediation, Well Monitoring / Sampling**	**Quantity**	**Unit**	**Rate**	**Total**
2.0	PID Meter Rental	4	Week	$300.00	$1,200.00
3.0	CAMP Monitoring Equipment (Upwind & Downwind)	4	Week	$996.00	$3,984.00
4.0	Peristaltic Pump - Monitoring	4	Sessions	$42.00	$168.00
5.0	Water Quality Meter - Monitoring	4	Sessions	$145.00	$580.00
6.0	Excavation Water Discharge Permit	1	Permit	$200.00	$200.00
7.0	6 mil Poly Sheting	4	Rolls	$190.00	$760.00
8.0	Disposable Tubing (100' roll) - Monitoring	1	Roll	$18.00	$18.00
9.0	Travel Expenses	15	Days	$150.00	$2,250.00
	Expenses Subtotal				**$9,160.00**
III.REMEDIAL CONTRACTOR SERVICES					
1.0	Mobilize/Demobilize	1	LS	$19,200.00	$19,200.00
2.0	Excavate and Stage **Lagoon Soil**	8000	Tons	$35.40	$283,200.00
3.0	Load Contaminated **Lagoon Soil**	8000	Tons	$6.00	$48,000.00
4.0	Transport and Dispose of Hazardous **Lagoon Soil**	1000	Ton	$700.00	**$700,000.00**
5.0	Transport and Dispose of Non-Hazardous **Lagoon Soil**	7000	Ton	$52.00	$364,000.00
6.0	Excavate and Stage **Surface Soils**	500	Tons	$34.00	$17,000.00
7.0	Load, Transport and Dispose of Non-Hazardous **Surface Soils**	500	Ton	$52.00	$26,000.00
8.0	Frac Tank Mob/Demob & Rental	15	Days	$125.00	$1,875.00
9.0	Excavation Water handling, treatment, discharge	15000	Gallons	$0.20	$3,000.00
10.0	Frac Tank Cleaning	1	LS	$1,665.00	$1,665.00
11.0	Provide, Place and Compact Imported Crushed Stone	8500	Tons	$31.50	$267,750.00
12.0	Install New Asphalt	7000	sq.ft.	$11.00	$77,000.00
13.0	Decontaminate Heavy Equipment/Vehicles	1	LS	$1,500.00	$1,500.00
14.0	Replace Three Overburden Monitoring Wells	3	Wells	$1,000.00	$3,000.00
15.0	Survey Features	1	LS	$4,200.00	$4,200.00
16.0	Laboratory Confirmatory Soil Samples(Pest, herbs, PCB, VOC, SVOC, Metals & Dup)	20	Samples	$400.00	$8,000.00
17.0	Laboratory Post GW Monitoring (Pest, herbs, PCB, VOC, SVOC, Metals	20	Samples	$400.00	$8,000.00
18.0	Laboratory (2 samples for Full RCRA TCLP, PCB, & misc. for disposal characterization)	5	Samples	$720.00	$3,600.00
19.0	Laboratory Periodic Air Sampling (Building)	8	Samples	$400.00	$3,200.00
20.0	Subcontractor - DUSRs	8	Reports	$1,200.00	$9,600.00
21.0	IDW Drum Disposal	4	Drum	$480.00	$1,920.00
		Total Management/Engineering Services Cost			**$64,010.00**
		Total Expense Cost			**$9,160.00**
		Subcontractor Total			**$1,851,710.00**
		Total Cost			**$1,924,880.00**

TABLE 17
COST ESTIMATE FOR SSDS INSTALLATION
Soil Vapor (Alt. 3)
Former Bisonite Paint Co. Site No. C915010
2266 and 2268 Militry Road
Tonawanda, New York

I. MANAGEMENT AND ENGINEERING SERVICES					
1.0	**Scheduling / Coordination**				$1,500.00
2.0	**SSDS Design Work Plan & Pilot Testing**				$10,000.00
3.0	**SSDS Install Oversight / Project Management**	5	Days	$1,100.00	$5,500.00
4.0	**Post Mitigation Air Sampling**	1	Days	$1,100.00	$1,100.00
5.0	**OM&M Quarterly System Check**	20	Each	$500.00	$10,000.00
6.0	**Management/Engineering Subtotal**				**$28,100.00**
II. EXPENSES					
1.0	**SSDS Installation / Sampling**	**Quantity**	**Unit**	**Rate**	**Total**
2.0	Monitoring Instruments	1	Week	$500.00	$500.00
3.0	Travel Expenses	5	Days	$300.00	$1,500.00
	Expenses Subtotal				**$2,000.00**
III. SSDS CONTRACTOR SERVICES					
1.0	Pilot Testing for SSDS Design	1	LS	$2,000.00	$2,000.00
2.0	Furnish & Install SSDS	9000	Sqft	$6.00	$54,000.00
3.0	Survey Features / Asbuilt Drawing	1	LS	$2,000.00	$2,000.00
4.0	Laboratory Periodic Air Sampling / Analysis (Building)	10	Samples	$400.00	$4,000.00
5.0	Subcontractor - DUSR	1	Report	$900.00	$900.00
	Contractor Subtotal				$62,900.00
		Total Management/Engineering Services Cost			**$28,100.00**
		Total Expense Cost			**$2,000.00**
		Subcontractor Total			**$62,900.00**
		Total Cost			**$93,000.00**

APPENDIX A

SUPPLEMENTAL REMEDIAL INVESTIGATION REPORT

235.198A

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May 4, 2021

Mr. Joshua M. Vaccaro
Division of Environmental Remediation
Region 9
New York State Department of Environmental Conservation
270 Michigan Avenue
Buffalo, New York 14203
Email: Joshua.vaccaro@dec.ny.gov

Re: Sample Analysis Results for Supplemental Remedial Investigation
Former Bisonite Paint Company, Site Code C915010
2266 Military Road and 2268 Military Road
Tonawanda, New York

Dear Mr. Vaccaro:

Leader Professional Services, Inc. ("Leader") working on the behalf of ACM Northfield CR3, LLC, is providing this report for the sample analysis results obtained during the implementation of the Supplemental Remedial Investigation ("SRI") conducted on March 18, 2021 at the above-referenced site.

The work was conducted following the Supplemental Work Plan – Field Sampling ("SWP"), approved by the New York State Departments of Environmental Conservation ("NYSDEC") and Health ("NYSDOH") on March 1, 2021.

The work was implemented in accordance with the approved SWP with the following exceptions, which were discussed with you prior to implementing the field work. The SWP specified that soil sampling would be conducted using a direct push sampling tool and the air monitoring associated with the sampling would also include implementing a Community Air Monitoring Program ("CAMP") for particulates and volatile organic compounds. Leader conducted the sampling using a gasoline powered post-hole auger, when needed. Because of this change, NYSDEC agreed particulate monitoring would not be needed and the sample hole and the immediate work area would continue to be monitored with a portable organic vapor monitor using a photoionization detector ("PID").

SAMPLE ANALYSIS RESULTS

Soil Samples

Soil samples were collected at the locations shown on Figure 1. At each location, discrete samples were collected from the following intervals: 0 to 2-inches; 2 to 6-inches; 6 to 12-inches and 12 to 24-inches. PID monitoring was conducted prior to the sampling at each location and at each sample interval. No elevated PID readings were noted. The soils encountered consisted of fill in the upper 6 to 18 inches of the soil with asphalt, glass, gravel and silt/sand. Below the fill layer the soil consisted of clay-like soil, with the exception of the soil at sample location SS2-B where silty sand was observed to a depth of 24-inches below the ground surface.

Each soil sample was analyzed for polyaromatic hydrocarbons ("PAH") by ALS Laboratories and compared to the 6 NYCRR Part 375 Restricted Use, Commercial Soil Cleanup Objectives ("RCSCO"). The laboratory data packages are provided in Appendix A. A summary of the PAH compounds in the soil samples that exceed applicable RCSCOs are presented on Table 1. For comparison purposes, Table 2 provides the surface soil (0 to 2-inches) analysis of PAH exceedances during Leader's 2019 Remedial Investigation ("RI"). The RI sample locations are also shown on Figure 1.

Soil Sample Results

The 0 to 2-inch interval sample analysis found the same PAH compounds as the RI findings; Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Chrysene, Dibenz(a,h,)anthracene and Indeno(1,2,3-cd)pyrene. Each sample with the exception of SSB-2, contained at least one compound exceeding the RCSCO. Three samples (SSA-1, SSB-1, and SSA-5) had only one compound (Benzo(a)pyrene) at a concentration above the RCSCO of 1 milligram per kilogram ("mg/Kg").

The 6-inch interval sample analysis found similar results as the 0 to 2-inch sample interval, but the sample analysis results show three samples had no exceedances (SSB-1, SSB-2, and SSA-5) and two locations had one exceedance (Benzo(a)pyrene) at locations SSA-1 and SSA-6.

Improved soil conditions were found in the 12-inch interval sample. Three samples (SSA-3, SSA-5, and SSA-6) did not exceed the RCSCO, but in four samples (samples SSA-1, SSB-1, SSA-2, SSB-2) Benzo(a)pyrene exceeded the RCSCO of 1 mg/Kg. The range of Benzo(a)pyrene concentrations was 1.2 to 1.7 mg/Kg. Samples SSA-4 and SSB-3 had three or more compounds exceeding the RCSCO.

Improved soil conditions were found in the 24-inch interval sample. Two sample locations contained three or more compounds at concentrations exceeding the RCSCO; however, the exceedances were only slightly over the guidance level. For example, in the sample from location SSB-1 the concentration of Benzo(b)fluoranthene was 7.1 mg/kg compared to the RCSCO of 5.6 mg/Kg. In the same sample from SSB-1 Benzo(a)pyrene was found at a concentration of 7.1 mg/Kg compared to the RCSCO of 1.0 mg/Kg. No exceedances of PAH compounds beyond the 12-inch depths from SSA-2, SSB-2, SSA-3, SSB-4 of SSA-5 were detected.

The exceedances of PAHs in the shallower depths as opposed to the 24-in interval is most likely attributed to the observed prevalence of broken asphalt mixed in the soils rather than past operations at the Bisonite facility.

Air Samples

The air sampling conducted during the SRI was collected in a portion of the Site building that is off-Site. However, the building shares a building wall and hallways with the on-Site building. Figure 2 shows the locations of the samples.

Heating in the off-Site portions of the building uses gas fired units. The office uses a natural gas fired forced air system while the warehouse uses a ceiling mounted system with its heat exchanger on the roof. The air temperature inside the building was 68 degrees Fahrenheit during the SRI.

Prior to the sampling, Leader conducted a visual inspection and a survey of the area using a PID. No chemicals or building maintenance products were found in the immediate area of the office or warehouse. The forklift trucks used in the warehouse have electric motors with batteries. No elevated PID levels (greater than 1 ppm) were observed.

After each sub-slab sample location was drilled, Leader conducted measurements of the volatile organic vapors in each hole; at location SS-1 (warehouse) a peak PID reading of 14.6 ppm was observed and a 2.2 ppm sustained reading measured. After approximately five minutes, PID readings were non-detect. At location SS-2, a peak PID reading of 5.2 ppm was observed and it dropped to 0-ppm after a few seconds.

The air samples were analyzed by Galson Laboratories using Method TO-15 and the laboratory package is provided as Appendix B. Table 3 provides a summary of the sample analysis results.

Air Sample Results

None of the compounds that have NYSDOH indoor air guidance values, with the exception of Methylene Chloride, were detected in the samples. Methylene Chloride was found in the two indoor air samples at a concentration of 24.0 micrograms per cubic meter ("mcg/M^3") in sample IA-1 and at a concentration of 16 mcg/M^3 in sample IA-2. Methylene Chloride was not found in the sub-slab samples or the outdoor air, indicating that that the Methylene Chloride detections may be the result of use or storage of products that contain this chemical within the building.

Other compounds found were consistent with the previously collected on-Site samples. The following compounds were found: Acetone, Benzene, Ethylbenzene, Methyl Ethyl Ketone ("MEK"), Toluene and Xylene. No chlorinated compounds were found in the SWP sample analysis results however they were found in the samples during the 2019 Remedial Investigation. Acetone, MEK and Toluene were found in both the indoor air and sub-slab samples during the SWP, but only in the sub-slab samples during the 2019 Remedial Investigation. During the SRI, Benzene was found only in the sub-slab samples. During the 2019 Remedial Investigation Benzene was found in sub-slab and indoor air samples (See Table 3).

DATA USABILITY SUMMARY REPORT

A Data Usability Summary Report ("DUSR") was prepared for the soil and air sample laboratory data by ME Holvey Consulting, LLC ("MEHC"). The DUSR for both the soil and air sample analysis data is provided as Appendix C. MEHC found the data to be valid and usable.

AREA WIDE BUILDING CHEMICAL INVENTORY

On June 30, 2021, Leader returned to the Site to further assess other 'off-site" portions of the former manufacturing building to examine current tenant activities such as, types of chemicals used, stored and managed at the site and determine whether there was potential for releases of hazardous substances or petroleum related constituents to indoor air, particularly that of Methylene Chloride.

Leader was escorted by ACM Northfield's property manager to a wood furniture refurbishing shop, operated by the Elwood Company at the southwest corner of the building. The shop is reportedly operated by one person on a part time basis. Activities include repair, stripping, sanding, painting, and refinishing of antique wood furniture. The shop proprietor was not present during Leader's June 30th Site inspection.

Immediately upon entering the refurbishing shop, a strong lacquer thinner/stripper type odor was noted and a PID reading of 12.4 ppm was reported in the ambient air within the shop, with higher readings recorded near the flammable materials storage locker. An open five-gallon container of gelled stripper or lacquer thinner was observed at the doorway entrance emanating VOC vapors. One (1) five-gallon pail of furniture stripper listed Dichloromethane and Methanol as its primary ingredients. Dichloromethane is a synonym of Methylene Chloride. Various size containers and aerosol cans containing wood stains, mineral spirits, Stoddard solvents, petroleum distillates, paint thinner, spray toners and lacquers were observed in the flammable materials storage locker, and on shelves within the shop.

The shop was not being ventilated at the time of entry. A wall mounted exhaust fan was observed near the ceiling of the shop and reportedly operates while the proprietor is engaged in stripping and refinishing operations. The fan directs the indoor building air directly to the atmosphere. As such, no ventilation ducts are used.

Insight Floor Coverings occupies a garage space at the northwest portion of the building within the BCP boundary. Four-gallon pails containing carpet, vinyl and ceramic tile adhesives are stored neatly on shelves. The containers manufactured by Mohawk and Armstrong Tile are labeled "Solvent and VOC Free" or listed as containing VOCs less than 34 grams per liter". The SDS's for these products lists the ingredients as "Proprietary" but are identified as containing no hazardous ingredients. The ceramic tile adhesive manufactured by Flextile contains petroleum distillates. Approximately 98% of the products were new and un-opened. Minimal containers that have been previously opened were observed to be sealed tight with the original lids. Neither VOC odors, spillage, nor PID readings were observed inside the Insight Floor Coverings garage space.

Leader completed a NYSDOH Indoor Air Quality Questionnaire with emphasis on the furniture refurbishing shop, including product inventory forms for the wood furniture refurbishing and floor covering businesses (See Appendix D). Photographs of the products used in the wood furniture refurbishing shop are provided in Appendix E.

Based on the confirmed use of furniture stripper containing Methylene Chloride, and the presence of VOC odors and elevated PID readings in the ambient air within the furniture refurbishing shop, the presence of Methylene Chloride in addition to other VOCs such as Acetone, Benzene, MEK, Toluene and Xylene detected during the supplemental indoor air samples is likely attributed to the products used in the furniture refurbishing operations.

SUMMARY

Soil Samples

The soil sample analysis results indicated PAH contamination exceeding the RUCSCOs was found along the property line, but the highest concentrations are along the north side of the Site. This is consistent with the RI findings where sample locations SS-3 and SS-4 were found to have the highest concentrations. Although the SWP findings indicate that the soil samples contain SVOC concentrations above the applicable RCSCOs, the level of impact decreased below the 12-inch depth. The PAH exceedances in the shallow soil sample intervals is likely due to the observed prevalence of bituminous asphalt mixed in the soils rather than the result of past operations at the Bisonite facility.

Air Samples

During the SRI the concentration of Methylene Chloride (16.0 and 24.0 mcg/M^3) in the air samples was less than the NYSDOH 2017 indoor air guidance value of 60 mcg/M^3 . Methylene Chloride was not detected from the sub-slab air samples. The concentration of Methylene Chloride found during the 2019 RI was much lower: 0.74 mcg/M^3 in the onsite indoor air primary sample, 1.02 mcg/M^3 in the onsite indoor air duplicate sample, and 0.844 mcg/M^3 in the sub-slab sample, (See Figure 3). Methylene Chloride was also found in the outdoor air at a concentration of 0.715 mcg/M^3 during the 2019 RI but was not detected in the outdoor air during the SRI.

During the SRI other compounds were found in both the indoor and sub-slab samples and they are consistent with the compounds found in the soil and groundwater during the RI. The detected VOCs are also consistent with the ingredients listed on products used in the furniture refurbishing shop; Except for Methylene Chloride, NYSDOH does not have guidance values for these compounds, but rather these compounds are based on typical background concentrations.

The presence of products containing Methylene Chloride, Acetone, Benzene, MEK, Toluene and Xylene observed in the furniture refurbishing shop, is likely the source of the constituents found in the indoor air during the 2019 RI and this SRI.

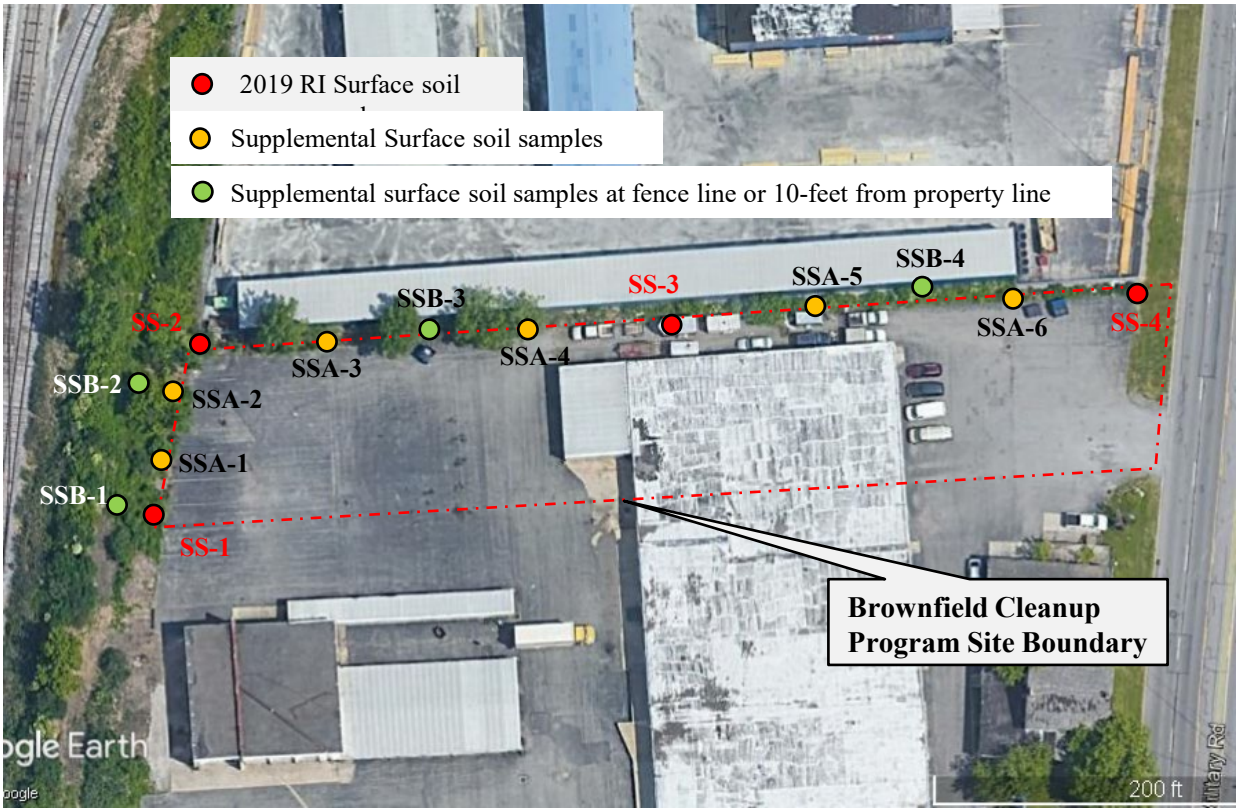
Based on the 2019 RI results, in addition to the off-Site SRI findings, actions are not needed to address exposures related to soil vapor intrusion. However, improving housekeeping practices and/or implementing more effective engineering controls within the furniture repair shop would likely improve the air quality within the entire building.

If you have any questions or require further information, please contact us at (585) 248-2413 or fthomas@leaderlink.com.

Very truly yours,
LEADER PROFESSIONAL SERVICES, INC.



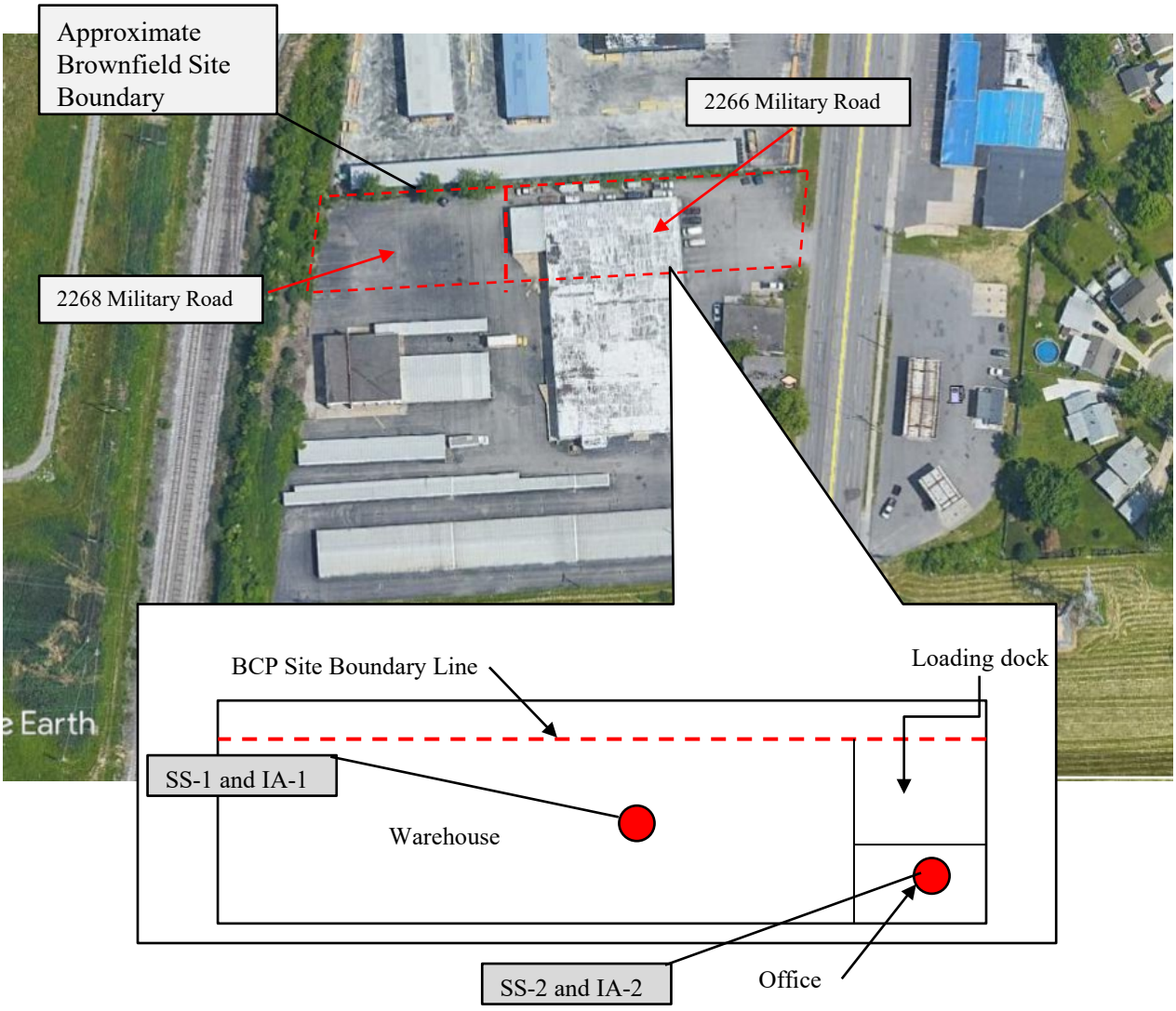
Frank Thomas
Senior Project Manage



Title: Supplemental Surface Soil Sampling Locations 2266 and 2268 Military Road Tonawanda, NY	Leader Professional Services 271 Marsh Road, Suite 2 Pittsford, NY 14534 (585) 248-2413 FAX (585) 248-2834	Project: 235.198A Date: 4/22/2021 Scale: NTS	Drawn: PVS Checked: MPR File Name: Site Location	Figure: 1
Prepared For: ACM Northern CR#3 LLC 3144 S. Winton Road Rochester, NY				

NORTH

Sub-slab and Indoor Air Sample Locations



Title: Supplemental Sampling Sub-slab & Indoor Air Loc. 2266 and 2268 Military Road Tonawanda, NY	Leader Professional Services 271 Marsh Road, Suite 2 Pittsford, NY 14534 (585) 248-2413 FAX (585) 248-2834	Project 235.198A Date 4/23/2021 Scale As shown	Drawn PVS Checked MPR File Name Air Samples	Figure 2
Prepared For: ACM Northern CR#3 LLC 3144 S. Winton Road Rochester, NY				

TABLE 1
Supplemental RI Soil Sample Exceedances
Former Bisonite Paint Company
Site C915010
Tonawanda, New York

ANALYTE	METHOD	UNITS	- 6NYCRR 375-6.8 Soil Cleanup - Restricted Use - Commercial	- SSA 1 0 2 R2102621 017	SSB 1 0 2 R2102621 021	- SSA 2 0 2 R2102621 009	SSB 2 0 2 R2102621 013	- SSA 3 0 2 R2102621 005	SSB 3 0 2 R2102621 001	- SSA 4 0 2 R2102620 014	SSB 4 0 2 R2102620 005	- SSA 5 0-2 R2102620 010	- SSA 6 0 2 R2102620 001
Method: 8270D/SVO MW													
Benz(a)anthracene	8270D/SVO MW	mg/Kg dry	5.6	1.5	0.76	**7.2**	0.38 J	4.0	4.9	**53**	**15**	1.8	**30**
Benzo(a)pyrene	8270D/SVO MW	mg/Kg dry	1	**2.4**	1.0	**9.4**	0.49	**6.1**	**8.7**	**89**	**24 E**	**3.3**	**48**
Benzo(b)fluoranthene	8270D/SVO MW	mg/Kg dry	5.6	3.4	1.1	**12**	0.63	**7.6**	**12 E**	**120 E**	**31 E**	4.1	**59**
Chrysene	8270D/SVO MW	mg/Kg dry	56	2.5	0.84	9.9	0.43	5.9	7.9	**88**	21 E	2.9	43
Dibenz(a,h)anthracene	8270D/SVO MW	mg/Kg dry	0.56	0.30 J	0.16 J	**1.3 J**	ND	**0.92 J**	**1.3**	**12**	**3.0**	0.44	**6.8**
Indeno(1,2,3 cd)pyrene	8270D/SVO MW	mg/Kg dry	5.6	1.6	0.65	**6.4**	0.32 J	4.6	**6.7**	**61**	**16**	2.3	**38**

ANALYTE	METHOD	UNITS	- 6NYCRR 375-6.8 Soil Cleanup - Restricted Use - Commercial	- SSA 1 6 R2102621 018	SSB 1 6 R2102621 022	- SSA 2 6 R2102621 010	SSB 2 6 R2102621 014	- SSA 3 6 R2102621 006	SSB 3 6 R2102621 002	- SSA 4 5 R2102620 015	SSB 4 5 R2102620 006	- SSA 5 6 R2102620 011	SSA 6 6
Method: 8270D/SVO MW													
Benz(a)anthracene	8270D/SVO MW	mg/Kg dry	5.6	0.98	0.48	**7.5**	0.088 J	2.7	**15**	**5.8**	**16**	0.28 J	2.0
Benzo(a)pyrene	8270D/SVO MW	mg/Kg dry	1	**1.5**	0.59	**9.9**	0.11 J	**4.0**	**25**	**9.8 E**	**24 E**	0.46	**3.5**
Benzo(b)fluoranthene	8270D/SVO MW	mg/Kg dry	5.6	2.1	0.61	**13**	0.12 J	5.1	**34**	**13 E**	**30 E**	0.57	4.0
Chrysene	8270D/SVO MW	mg/Kg dry	56	1.6	0.47	11	0.082 J	3.9	24	8.8 E	21 E	0.43	3.1
Dibenz(a,h)anthracene	8270D/SVO MW	mg/Kg dry	0.56	0.26 J	0.090 J	**1.3 J**	ND	**0.58**	**3.2**	**1.3**	**2.9**	ND	0.48
Indeno(1,2,3 cd)pyrene	8270D/SVO MW	mg/Kg dry	5.6	1.2	0.41	**6.2**	ND	2.8	**17**	**6.9**	**15**	0.38 J	2.9

ANALYTE	METHOD	UNITS	- 6NYCRR 375-6.8 Soil Cleanup - Restricted Use - Commercial	- SSA 1 12 R2102621 019	SSB 1 12 R2102621-023	- SSA 2 12 R2102621 011	SSB 2 12 R2102621 015	- SSA 3 12 R2102621 007	SSB 3 12 R2102621 003	- SSA 4 8 R2102620 016	SSB 4 10 R2102620 007	- SSA 5 12 R2102620 012	- SSA 6 12 R2102620 003
Method: 8270D/SVO MW													
Benz(a)anthracene	8270D/SVO MW	mg/Kg dry	5.6	0.81	1.1	1.3	1.2	0.53	**7.1**	4.4	**13**	0.49	ND
Benzo(a)pyrene	8270D/SVO MW	mg/Kg dry	1	**1.2**	**1.4**	**1.7**	**1.3**	0.87	**10**	**7.6**	**21 E**	0.83	ND
Benzo(b)fluoranthene	8270D/SVO MW	mg/Kg dry	5.6	1.7	1.3	2.0	1.6	1.2	**13**	**10 E**	**27 E**	0.98	ND
Chrysene	8270D/SVO MW	mg/Kg dry	56	1.3	1.1	1.6	1.4	0.80	10	7.1	18 E	0.77	ND
Dibenz(a,h)anthracene	8270D/SVO MW	mg/Kg dry	0.56	0.19 J	0.19 J	0.23 J	0.19 J	0.14 J	**1.5**	**1.0**	**2.7**	0.11 J	ND
Indeno(1,2,3 cd)pyrene	8270D/SVO MW	mg/Kg dry	5.6	0.98	0.89	1.0	0.77	0.67	**7.5**	5.3	**14**	0.66	ND

ANALYTE	METHOD	UNITS	- 6NYCRR 375-6.8 Soil Cleanup - Restricted Use - Commercial	- SSA 1 20 R2102621 020	SSB 1 24 R2102621 024	- SSA 2 24 R2102621 012	SSB 2 24 R2102621 016	- SSA 3 20 R2102621 008	SSB 3 24 R2102621 004	- SSA 4 18 R2102620 017	SSB 4 18 R2102620 008	SSA 5 21 / SSA-5 21 DUP R2102620 013 / R2102620 009	- SSA 6 23 R2102620 004
Method: 8270D/SVO MW													
Benz(a)anthracene	8270D/SVO MW	mg/Kg dry	5.6	2.6	**6.8**	0.48	0.27 J	0.48	1.5	3.1	0.087 J	ND / ND	2.8
Benzo(a)pyrene	8270D/SVO MW	mg/Kg dry	1	**2.9**	**7.1**	0.63	0.31 J	0.80	**2.2**	**5.2**	0.12 J	ND / ND	**4.8**
Benzo(b)fluoranthene	8270D/SVO MW	mg/Kg dry	5.6	3.1	**7.1**	0.84	0.36 J	1.1	2.9	**6.8**	0.15 J	ND / ND	**5.8**
Chrysene	8270D/SVO MW	mg/Kg dry	56	2.5	6.0	0.63	0.28 J	0.78	2.4	5.0	0.12 J	ND / ND	4.3
Dibenz(a,h)anthracene	8270D/SVO MW	mg/Kg dry	0.56	0.38 J	**0.94**	0.088 J	ND	0.12 J	0.33 J	**0.69**	ND	ND / ND	**0.69**
Indeno(1,2,3 cd)pyrene	8270D/SVO MW	mg/Kg dry	5.6	1.8	3.6	0.44	0.17 J	0.60	1.7	3.8	ND	ND / ND	4.1

Notes
MDL = Method Detection Limit.
ND = Not Detected, or < MDL.
J = Concentration below reporting limit but above MDL.
E = Estimated concentration.
Bold/Shade = Exceeds RCSCOs

TABLE 2
Remedial Investigation
Soil Sample Exceedances 0 to 2-inch Sample Interval
Former Bisonite Paint Company
Site C915010
Tonawanda, New York

ANALYTE	UNITS	- 6NYCRR 375-6.8 Soil Cleanup - Restricted Use - Commercial	- SS 1 0-2	- SS 2 0-2	- SS 3 0-2	- SS 4 0-2
Method: 8270D/SVO MW			**Remedial Inv.**	**Remedial Inv.**	**Remedial Inv.**	**Remedial Inv.**
			R1911946 008	**R1911946 009**	**R1911946 010**	**R1911946 011**
Benz(a)anthracene	mg/Kg dry	5.6	**7.1**	**6.3**	**52 D**	**36 D**
Benzo(a)pyrene	mg/Kg dry	1	**9.8**	**8.2**	**70 D**	**45 D**
Benzo(b)fluoranthene	mg/Kg dry	5.6	**17 D**	**13.0**	**110 D**	**69 D**
Chrysene	mg/Kg dry	56	9.9	9.5	**73 D**	48 D
Dibenz(a,h)anthracene	mg/Kg dry	0.56	**1.8**	**1.4 J**	**11.0**	**7.1**
Indeno(1,2,3 cd)pyrene	mg/Kg dry	5.6	**8.5**	**6.8**	**64 D**	**42 D**

TABLE 3
Supplemental RI Indoor Air and Sub-slab Sample Results
Former Bisonite Paint Company
Site C915010
Tonawanda, New York

Sample ID	IA-1	SS-1	SS-2	IA-2	OA-1
Lab ID	L531971-1	L531971-2	L531971-3	L531971-4	L531971-5
Compound	Result	Result	Result	Result	Result
METHYLENE CHLORIDE	24	ND	ND	16	ND
TETRACHLOROETHYLENE	ND	ND	ND	ND	ND
TRICHLOROETHYLENE	ND	ND	ND	ND	ND
TRANS-1,2-DICHLOROETHENE	ND	ND	ND	ND	ND
1,1-DICHLOROETHANE	ND	ND	ND	ND	ND
CIS-1,2-DICHLOROETHYLENE	ND	ND	ND	ND	ND
1,2-DICHLOROETHANE	ND	ND	ND	ND	ND
VINYL CHLORIDE	ND	ND	ND	ND	ND
1,1,1-TRICHLOROETHANE	ND	ND	ND	ND	ND
CARBON TETRACHLORIDE	ND	ND	ND	ND	ND
CHLOROFORM	ND	ND	ND	ND	ND
PROPYLENE	ND	410	180	ND	ND
N-BUTANE	5.6	1400	530	4.7	ND
ACETONE	58	420	240	49	ND
ISOPROPYL ALCOHOL	ND	0.033	0.042	ND	ND
PENTANE	5.8	760	320	3.6	ND
CARBON DISULFIDE	ND	50	25	ND	ND
VINYL ACETATE	ND	240	140	ND	ND
METHYL ETHYL KETONE	5	29	3.5	4.2	ND
HEXANE	ND	320	150	ND	ND
ETHYL ACETATE	28	160	380	27	5.7
BENZENE	ND	5.7	3	ND	ND
CYCLOHEXANE	ND	41	30	ND	ND
HEPTANE	ND	83	25	ND	ND
METHYL ISOBUTYL KETONE	ND	6.4	ND	ND	ND
TOLUENE	11	110	5	8.4	ND
METHYL BUTYL KETONE	ND	ND	ND	ND	ND
CHLOROBENZENE	ND	ND	ND	ND	ND
ETHYLBENZENE	ND	ND	ND	ND	ND
M,P-XYLENES	ND	ND	ND	ND	ND
O-XYLENE	ND	ND	ND	ND	ND
CUMENE	ND	ND	ND	ND	ND
1,3,5-TRIMETHYLBENZENE	ND	ND	ND	ND	ND
1,2,4-TRIMETHYLBENZENE	ND	ND	ND	ND	ND
NAPHTHALENE	ND	ND	ND	ND	ND

Appendix A

Soil Laboratory Results

April 13, 2021 Service Request No:R2102621

Frank Thomas
Leader Professional Services, Inc.
271 Marsh Road
Suite 2
Pittsford, NY 14534

Laboratory Results for: Former Bisonite

Dear Frank,

Enclosed are the results of the sample(s) submitted to our laboratory March 19, 2021
For your reference, these analyses have been assigned our service request number **R2102621.**

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Janice Jaeger
Project Manager

CC: Peter von
Schondorf

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
PHONE +1 585 288 5380 | FAX +1 585 288 8475
ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Leader Professional Services, Inc.
Project: Former Bisonite
Sample Matrix: Soil

Service Request: R2102621
Date Received: 03/19/2021

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

Twenty four soil samples were received for analysis at ALS Environmental on 03/19/2021. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Semivolatiles by GC/MS:

Method 8270D, R2102621-003 DL: The upper control limit was exceeded for one or more surrogates in one or more samples in this report. The surrogate was within limits for the original analysis. Results confirm.
Method 8270D, 03/27/2021: The lower control limit for the spike recovery of the Laboratory Control Sample (LCS) was exceeded for one or more analyte. The discrepancy associated with reduced recovery equates to a potential low bias. Samples are being re-extracted. The analytes affected are flagged in the LCS Summary.

Method 8270D, 03/27/2021: The matrix spike recovery of one or more of the spiked analytes was outside of control limits because of sample matrix. No further corrective action was required.

Method 8270D, 03/27/2021: The control limits were exceeded for one or more surrogates in one or more QC samples associated with samples in this report. Batch is being re-extractes for failed QC.

Method 8270D, R2102621-008, -011, -012, -018: The upper control limit was exceeded for one or more surrogates in one or more samples in this report. The elevated recovery equates to a high bias. These samples had hits > PQL and are being re-extracted for failed QC.
Method 8270D, 718115: The control limits were exceeded for one or more surrogates in one or more QC samples associated with samples in this report. The associated recoveries of target compounds were in control, indicating the analysis was in control. The surrogate outlier is flagged accordingly. No further corrective action was appropriate.
Method 8270D, 04/02/2021: The matrix spike recovery of one or more of the spiked analytes was outside of control limits because of sample matrix. The LCS/LCSD are within limits for all anlytes. No further corrective action was required.

General Chemistry:

No significant anomalies were noted with this analysis.

Approved by _____ Date 04/13/2021

SAMPLE DETECTION SUMMARY

CLIENT ID: SSB-3 0-2			Lab ID: R2102621-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	67.8				Percent	ALS SOP
Acenaphthene	130	J	92	490	ug/Kg	8270D
Acenaphthylene	140	J	98	490	ug/Kg	8270D
Anthracene	680		81	490	ug/Kg	8270D
Benz(a)anthracene	4900		72	490	ug/Kg	8270D
Benzo(a)pyrene	8700		130	490	ug/Kg	8270D
Benzo(b)fluoranthene	12000	E	81	490	ug/Kg	8270D
Benzo(g,h,i)perylene	7000		120	490	ug/Kg	8270D
Benzo(k)fluoranthene	4100		79	490	ug/Kg	8270D
Chrysene	7900		72	490	ug/Kg	8270D
Dibenz(a,h)anthracene	1300		110	490	ug/Kg	8270D
Fluoranthene	12000	E	130	490	ug/Kg	8270D
Fluorene	210	J	91	490	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	6700		160	490	ug/Kg	8270D
Naphthalene	95	J	91	490	ug/Kg	8270D
Phenanthrene	4700		69	490	ug/Kg	8270D
Pyrene	10000	E	81	490	ug/Kg	8270D
Anthracene	700	DJ	170	970	ug/Kg	8270D
Benz(a)anthracene	5300	D	150	970	ug/Kg	8270D
Benzo(a)pyrene	9200	D	260	970	ug/Kg	8270D
Benzo(b)fluoranthene	12000	D	170	970	ug/Kg	8270D
Benzo(g,h,i)perylene	6300	D	230	970	ug/Kg	8270D
Benzo(k)fluoranthene	3900	D	160	970	ug/Kg	8270D
Chrysene	8500	D	150	970	ug/Kg	8270D
Dibenz(a,h)anthracene	1200	D	220	970	ug/Kg	8270D
Fluoranthene	15000	D	250	970	ug/Kg	8270D
Fluorene	210	DJ	190	970	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	6400	D	320	970	ug/Kg	8270D
Phenanthrene	5000	D	140	970	ug/Kg	8270D
Pyrene	12000	D	170	970	ug/Kg	8270D

CLIENT ID: SSB-3 6			Lab ID: R2102621-002			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	82.5				Percent	ALS SOP
Anthracene	1900	J	330	2000	ug/Kg	8270D
Benz(a)anthracene	15000		300	2000	ug/Kg	8270D
Benzo(a)pyrene	25000		530	2000	ug/Kg	8270D
Benzo(b)fluoranthene	34000		330	2000	ug/Kg	8270D
Benzo(g,h,i)perylene	17000		460	2000	ug/Kg	8270D
Benzo(k)fluoranthene	11000		320	2000	ug/Kg	8270D
Chrysene	24000		290	2000	ug/Kg	8270D
Dibenz(a,h)anthracene	3200		430	2000	ug/Kg	8270D

SAMPLE DETECTION SUMMARY

CLIENT ID: SSB-3 6			Lab ID: R2102621-002			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Fluoranthene	41000	E	500	2000	ug/Kg	8270D
Fluorene	570	J	370	2000	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	17000		640	2000	ug/Kg	8270D
Phenanthrene	15000		280	2000	ug/Kg	8270D
Pyrene	34000		330	2000	ug/Kg	8270D
Anthracene	2000	DJ	660	4000	ug/Kg	8270D
Benz(a)anthracene	16000	D	590	4000	ug/Kg	8270D
Benzo(a)pyrene	27000	D	1100	4000	ug/Kg	8270D
Benzo(b)fluoranthene	35000	D	660	4000	ug/Kg	8270D
Benzo(g,h,i)perylene	20000	D	910	4000	ug/Kg	8270D
Benzo(k)fluoranthene	12000	D	640	4000	ug/Kg	8270D
Chrysene	26000	D	580	4000	ug/Kg	8270D
Dibenz(a,h)anthracene	3900	DJ	860	4000	ug/Kg	8270D
Fluoranthene	50000	D	990	4000	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	20000	D	1300	4000	ug/Kg	8270D
Phenanthrene	17000	D	560	4000	ug/Kg	8270D
Pyrene	39000	D	660	4000	ug/Kg	8270D

CLIENT ID: SSB-3 12			Lab ID: R2102621-003			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	89.7				Percent	ALS SOP
Acenaphthene	510	J	220	1100	ug/Kg	8270D
Anthracene	1400		190	1100	ug/Kg	8270D
Benz(a)anthracene	7100		170	1100	ug/Kg	8270D
Benzo(a)pyrene	10000		300	1100	ug/Kg	8270D
Benzo(b)fluoranthene	13000		190	1100	ug/Kg	8270D
Benzo(g,h,i)perylene	7800		260	1100	ug/Kg	8270D
Benzo(k)fluoranthene	4800		190	1100	ug/Kg	8270D
Chrysene	10000		170	1100	ug/Kg	8270D
Dibenz(a,h)anthracene	1500		250	1100	ug/Kg	8270D
Fluoranthene	18000		290	1100	ug/Kg	8270D
Fluorene	580	J	220	1100	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	7500		370	1100	ug/Kg	8270D
Phenanthrene	8000		160	1100	ug/Kg	8270D
Pyrene	15000		190	1100	ug/Kg	8270D

CLIENT ID: SSB-3 24			Lab ID: R2102621-004			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	82.6				Percent	ALS SOP
Anthracene	230	J	140	780	ug/Kg	8270D
Benz(a)anthracene	1500		120	780	ug/Kg	8270D
Benzo(a)pyrene	2200		210	780	ug/Kg	8270D

SAMPLE DETECTION SUMMARY

CLIENT ID: SSB-3 24			Lab ID: R2102621-004			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Benzo(b)fluoranthene	2900		130	780	ug/Kg	8270D
Benzo(g,h,i)perylene	1800		180	780	ug/Kg	8270D
Benzo(k)fluoranthene	1100		130	780	ug/Kg	8270D
Chrysene	2400		120	780	ug/Kg	8270D
Dibenz(a,h)anthracene	330	J	170	780	ug/Kg	8270D
Fluoranthene	4400		200	780	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	1700		260	780	ug/Kg	8270D
Phenanthrene	1700		120	780	ug/Kg	8270D
Pyrene	3500		130	780	ug/Kg	8270D

CLIENT ID: SSA-3 0-2			Lab ID: R2102621-005			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	82.3				Percent	ALS SOP
Anthracene	690	J	210	1200	ug/Kg	8270D
Benz(a)anthracene	4000		190	1200	ug/Kg	8270D
Benzo(a)pyrene	6100		330	1200	ug/Kg	8270D
Benzo(b)fluoranthene	7600		210	1200	ug/Kg	8270D
Benzo(g,h,i)perylene	4800		290	1200	ug/Kg	8270D
Benzo(k)fluoranthene	2800		200	1200	ug/Kg	8270D
Chrysene	5900		180	1200	ug/Kg	8270D
Dibenz(a,h)anthracene	920	J	270	1200	ug/Kg	8270D
Fluoranthene	10000		310	1200	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	4600		400	1200	ug/Kg	8270D
Phenanthrene	3800		180	1200	ug/Kg	8270D
Pyrene	8200		210	1200	ug/Kg	8270D

CLIENT ID: SSA-3 6			Lab ID: R2102621-006			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	71.6				Percent	ALS SOP
Anthracene	460		76	450	ug/Kg	8270D
Benz(a)anthracene	2700		68	450	ug/Kg	8270D
Benzo(a)pyrene	4000		130	450	ug/Kg	8270D
Benzo(b)fluoranthene	5100		76	450	ug/Kg	8270D
Benzo(g,h,i)perylene	2900		110	450	ug/Kg	8270D
Benzo(k)fluoranthene	1700		73	450	ug/Kg	8270D
Chrysene	3900		67	450	ug/Kg	8270D
Dibenz(a,h)anthracene	580		99	450	ug/Kg	8270D
Fluoranthene	6800		120	450	ug/Kg	8270D
Fluorene	130	J	85	450	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	2800		150	450	ug/Kg	8270D
Phenanthrene	2800		64	450	ug/Kg	8270D
Pyrene	5500		76	450	ug/Kg	8270D

SAMPLE DETECTION SUMMARY

CLIENT ID: SSA-3 12			Lab ID: R2102621-007			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	75.6				Percent	ALS SOP
Anthracene	92	J	75	450	ug/Kg	8270D
Benz(a)anthracene	530		67	450	ug/Kg	8270D
Benzo(a)pyrene	870		120	450	ug/Kg	8270D
Benzo(b)fluoranthene	1200		75	450	ug/Kg	8270D
Benzo(g,h,i)perylene	720		110	450	ug/Kg	8270D
Benzo(k)fluoranthene	410	J	73	450	ug/Kg	8270D
Chrysene	800		66	450	ug/Kg	8270D
Dibenz(a,h)anthracene	140	J	98	450	ug/Kg	8270D
Fluoranthene	1300		120	450	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	670		150	450	ug/Kg	8270D
Phenanthrene	560		64	450	ug/Kg	8270D
Pyrene	1100		75	450	ug/Kg	8270D

CLIENT ID: SSA-3 20			Lab ID: R2102621-008			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	70.8				Percent	ALS SOP
Benz(a)anthracene	480		70	470	ug/Kg	8270D
Benzo(a)pyrene	800		130	470	ug/Kg	8270D
Benzo(b)fluoranthene	1100		79	470	ug/Kg	8270D
Benzo(g,h,i)perylene	620		110	470	ug/Kg	8270D
Benzo(k)fluoranthene	350	J	76	470	ug/Kg	8270D
Chrysene	780		69	470	ug/Kg	8270D
Dibenz(a,h)anthracene	120	J	110	470	ug/Kg	8270D
Fluoranthene	1200		120	470	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	600		160	470	ug/Kg	8270D
Phenanthrene	490		67	470	ug/Kg	8270D
Pyrene	1000		78	470	ug/Kg	8270D

CLIENT ID: SSA-2 0-2			Lab ID: R2102621-009			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	55.6				Percent	ALS SOP
Acenaphthene	420	J	350	1800	ug/Kg	8270D
Anthracene	1600	J	310	1800	ug/Kg	8270D
Benz(a)anthracene	7200		270	1800	ug/Kg	8270D
Benzo(a)pyrene	9400		490	1800	ug/Kg	8270D
Benzo(b)fluoranthene	12000		310	1800	ug/Kg	8270D
Benzo(g,h,i)perylene	6500		420	1800	ug/Kg	8270D
Benzo(k)fluoranthene	4200		300	1800	ug/Kg	8270D
Chrysene	9900		270	1800	ug/Kg	8270D
Dibenz(a,h)anthracene	1300	J	400	1800	ug/Kg	8270D
Fluoranthene	22000		460	1800	ug/Kg	8270D

SAMPLE DETECTION SUMMARY

CLIENT ID: SSA-2 0-2			Lab ID: R2102621-009			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Fluorene	650	J	340	1800	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	6400		590	1800	ug/Kg	8270D
Phenanthrene	12000		260	1800	ug/Kg	8270D
Pyrene	18000		310	1800	ug/Kg	8270D

CLIENT ID: SSA-2 6			Lab ID: R2102621-010			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	69.4				Percent	ALS SOP
Acenaphthene	790	J	460	2400	ug/Kg	8270D
Anthracene	1700	J	410	2400	ug/Kg	8270D
Benz(a)anthracene	7500		360	2400	ug/Kg	8270D
Benzo(a)pyrene	9900		640	2400	ug/Kg	8270D
Benzo(b)fluoranthene	13000		400	2400	ug/Kg	8270D
Benzo(g,h,i)perylene	6300		550	2400	ug/Kg	8270D
Benzo(k)fluoranthene	5100		390	2400	ug/Kg	8270D
Chrysene	11000		360	2400	ug/Kg	8270D
Dibenz(a,h)anthracene	1300	J	530	2400	ug/Kg	8270D
Fluoranthene	29000		610	2400	ug/Kg	8270D
Fluorene	1200	J	450	2400	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	6200		780	2400	ug/Kg	8270D
Phenanthrene	20000		340	2400	ug/Kg	8270D
Pyrene	22000		400	2400	ug/Kg	8270D

CLIENT ID: SSA-2 12			Lab ID: R2102621-011			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	78.4				Percent	ALS SOP
Acenaphthene	160	J	80	420	ug/Kg	8270D
Anthracene	420	J	70	420	ug/Kg	8270D
Benz(a)anthracene	1300		63	420	ug/Kg	8270D
Benzo(a)pyrene	1700		120	420	ug/Kg	8270D
Benzo(b)fluoranthene	2000		70	420	ug/Kg	8270D
Benzo(g,h,i)perylene	1000		97	420	ug/Kg	8270D
Benzo(k)fluoranthene	780		68	420	ug/Kg	8270D
Chrysene	1600		62	420	ug/Kg	8270D
Dibenz(a,h)anthracene	230	J	91	420	ug/Kg	8270D
Fluoranthene	3200		110	420	ug/Kg	8270D
Fluorene	190	J	79	420	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	1000		140	420	ug/Kg	8270D
Phenanthrene	1900		60	420	ug/Kg	8270D
Pyrene	2600		70	420	ug/Kg	8270D

SAMPLE DETECTION SUMMARY

CLIENT ID: SSA-2 24			Lab ID: R2102621-012			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	80.7				Percent	ALS SOP
Anthracene	110	J	68	400	ug/Kg	8270D
Benz(a)anthracene	480		60	400	ug/Kg	8270D
Benzo(a)pyrene	630		110	400	ug/Kg	8270D
Benzo(b)fluoranthene	840		68	400	ug/Kg	8270D
Benzo(g,h,i)perylene	430		93	400	ug/Kg	8270D
Benzo(k)fluoranthene	290	J	66	400	ug/Kg	8270D
Chrysene	630		60	400	ug/Kg	8270D
Dibenz(a,h)anthracene	88	J	88	400	ug/Kg	8270D
Fluoranthene	1300		110	400	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	440		130	400	ug/Kg	8270D
Phenanthrene	580		57	400	ug/Kg	8270D
Pyrene	1000		67	400	ug/Kg	8270D

CLIENT ID: SSB-2 0-2			Lab ID: R2102621-013			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	83.2				Percent	ALS SOP
Anthracene	120	J	68	410	ug/Kg	8270D
Benz(a)anthracene	380	J	61	410	ug/Kg	8270D
Benzo(a)pyrene	490		110	410	ug/Kg	8270D
Benzo(b)fluoranthene	630		68	410	ug/Kg	8270D
Benzo(g,h,i)perylene	330	J	93	410	ug/Kg	8270D
Benzo(k)fluoranthene	220	J	66	410	ug/Kg	8270D
Chrysene	430		60	410	ug/Kg	8270D
Fluoranthene	760		110	410	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	320	J	140	410	ug/Kg	8270D
Phenanthrene	400	J	58	410	ug/Kg	8270D
Pyrene	640		68	410	ug/Kg	8270D

CLIENT ID: SSB-2 6			Lab ID: R2102621-014			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	87.1				Percent	ALS SOP
Benz(a)anthracene	88	J	55	370	ug/Kg	8270D
Benzo(a)pyrene	110	J	99	370	ug/Kg	8270D
Benzo(b)fluoranthene	120	J	62	370	ug/Kg	8270D
Chrysene	82	J	55	370	ug/Kg	8270D
Fluoranthene	160	J	93	370	ug/Kg	8270D
Phenanthrene	75	J	53	370	ug/Kg	8270D
Pyrene	130	J	62	370	ug/Kg	8270D

CLIENT ID: SSB-2 12			Lab ID: R2102621-015			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	86.4				Percent	ALS SOP

SAMPLE DETECTION SUMMARY

CLIENT ID: SSB-2 12			Lab ID: R2102621-015			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Acenaphthene	78	J	72	380	ug/Kg	8270D
Anthracene	270	J	64	380	ug/Kg	8270D
Benz(a)anthracene	1200		57	380	ug/Kg	8270D
Benzo(a)pyrene	1300		110	380	ug/Kg	8270D
Benzo(b)fluoranthene	1600		64	380	ug/Kg	8270D
Benzo(g,h,i)perylene	730		87	380	ug/Kg	8270D
Benzo(k)fluoranthene	620		62	380	ug/Kg	8270D
Chrysene	1400		56	380	ug/Kg	8270D
Dibenz(a,h)anthracene	190	J	83	380	ug/Kg	8270D
Fluoranthene	2900		95	380	ug/Kg	8270D
Fluorene	83	J	71	380	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	770		130	380	ug/Kg	8270D
Phenanthrene	1200		54	380	ug/Kg	8270D
Pyrene	2400		63	380	ug/Kg	8270D

CLIENT ID: SSB-2 24			Lab ID: R2102621-016			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	86.4				Percent	ALS SOP
Anthracene	88	J	62	370	ug/Kg	8270D
Benz(a)anthracene	270	J	55	370	ug/Kg	8270D
Benzo(a)pyrene	310	J	98	370	ug/Kg	8270D
Benzo(b)fluoranthene	360	J	62	370	ug/Kg	8270D
Benzo(g,h,i)perylene	190	J	85	370	ug/Kg	8270D
Benzo(k)fluoranthene	140	J	60	370	ug/Kg	8270D
Chrysene	280	J	54	370	ug/Kg	8270D
Fluoranthene	590		93	370	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	170	J	120	370	ug/Kg	8270D
Phenanthrene	340	J	52	370	ug/Kg	8270D
Pyrene	480		61	370	ug/Kg	8270D

CLIENT ID: SSA-1 0-2			Lab ID: R2102621-017			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	82.2				Percent	ALS SOP
Acenaphthene	110	J	76	400	ug/Kg	8270D
Anthracene	270	J	67	400	ug/Kg	8270D
Benz(a)anthracene	1500		59	400	ug/Kg	8270D
Benzo(a)pyrene	2400		110	400	ug/Kg	8270D
Benzo(b)fluoranthene	3400		67	400	ug/Kg	8270D
Benzo(g,h,i)perylene	1600		92	400	ug/Kg	8270D
Benzo(k)fluoranthene	1200		65	400	ug/Kg	8270D
Chrysene	2500		59	400	ug/Kg	8270D
Dibenz(a,h)anthracene	300	J	87	400	ug/Kg	8270D

SAMPLE DETECTION SUMMARY

CLIENT ID: SSA-1 0-2			Lab ID: R2102621-017			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Fluoranthene	4800		100	400	ug/Kg	8270D
Fluorene	140	J	75	400	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	1600		130	400	ug/Kg	8270D
Phenanthrene	2300		57	400	ug/Kg	8270D
Pyrene	3800		67	400	ug/Kg	8270D

CLIENT ID: SSA-1 6			Lab ID: R2102621-018			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	87.9				Percent	ALS SOP
2-Methylnaphthalene	100	J	63	380	ug/Kg	8270D
Anthracene	150	J	63	380	ug/Kg	8270D
Benz(a)anthracene	980		56	380	ug/Kg	8270D
Benzo(a)pyrene	1500		100	380	ug/Kg	8270D
Benzo(b)fluoranthene	2100		63	380	ug/Kg	8270D
Benzo(g,h,i)perylene	1300		87	380	ug/Kg	8270D
Benzo(k)fluoranthene	690		61	380	ug/Kg	8270D
Chrysene	1600		56	380	ug/Kg	8270D
Dibenz(a,h)anthracene	260	J	82	380	ug/Kg	8270D
Fluoranthene	2700		95	380	ug/Kg	8270D
Fluorene	74	J	71	380	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	1200		130	380	ug/Kg	8270D
Phenanthrene	1100		54	380	ug/Kg	8270D
Pyrene	2300		63	380	ug/Kg	8270D

CLIENT ID: SSA-1 12			Lab ID: R2102621-019			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	88.9				Percent	ALS SOP
Anthracene	150	J	62	370	ug/Kg	8270D
Benz(a)anthracene	810		55	370	ug/Kg	8270D
Benzo(a)pyrene	1200		98	370	ug/Kg	8270D
Benzo(b)fluoranthene	1700		61	370	ug/Kg	8270D
Benzo(g,h,i)perylene	1000		84	370	ug/Kg	8270D
Benzo(k)fluoranthene	560		60	370	ug/Kg	8270D
Chrysene	1300		54	370	ug/Kg	8270D
Dibenz(a,h)anthracene	190	J	80	370	ug/Kg	8270D
Fluoranthene	2300		92	370	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	980		120	370	ug/Kg	8270D
Phenanthrene	1000		52	370	ug/Kg	8270D
Pyrene	1900		61	370	ug/Kg	8270D

CLIENT ID: SSA-1 20			Lab ID: R2102621-020			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	82.0				Percent	ALS SOP

SAMPLE DETECTION SUMMARY

CLIENT ID: SSA-1 20			Lab ID: R2102621-020			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
2-Methylnaphthalene	110	J	65	390	ug/Kg	8270D
Acenaphthene	690		74	390	ug/Kg	8270D
Anthracene	1500		66	390	ug/Kg	8270D
Benz(a)anthracene	2600		58	390	ug/Kg	8270D
Benzo(a)pyrene	2900		110	390	ug/Kg	8270D
Benzo(b)fluoranthene	3100		66	390	ug/Kg	8270D
Benzo(g,h,i)perylene	1700		90	390	ug/Kg	8270D
Benzo(k)fluoranthene	1200		63	390	ug/Kg	8270D
Chrysene	2500		58	390	ug/Kg	8270D
Dibenz(a,h)anthracene	380	J	85	390	ug/Kg	8270D
Fluoranthene	6100		98	390	ug/Kg	8270D
Fluorene	730		73	390	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	1800		130	390	ug/Kg	8270D
Naphthalene	260	J	74	390	ug/Kg	8270D
Phenanthrene	5400		56	390	ug/Kg	8270D
Pyrene	5100		65	390	ug/Kg	8270D

CLIENT ID: SSB-1 0-2			Lab ID: R2102621-021			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	78.8				Percent	ALS SOP
Anthracene	210	J	71	420	ug/Kg	8270D
Benz(a)anthracene	760		63	420	ug/Kg	8270D
Benzo(a)pyrene	1000		120	420	ug/Kg	8270D
Benzo(b)fluoranthene	1100		71	420	ug/Kg	8270D
Benzo(g,h,i)perylene	660		97	420	ug/Kg	8270D
Benzo(k)fluoranthene	390	J	69	420	ug/Kg	8270D
Chrysene	840		62	420	ug/Kg	8270D
Dibenz(a,h)anthracene	160	J	92	420	ug/Kg	8270D
Fluoranthene	1500		110	420	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	650		140	420	ug/Kg	8270D
Phenanthrene	800		60	420	ug/Kg	8270D
Pyrene	1200		71	420	ug/Kg	8270D

CLIENT ID: SSB-1 6			Lab ID: R2102621-022			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	85.4				Percent	ALS SOP
Anthracene	160	J	67	400	ug/Kg	8270D
Benz(a)anthracene	480		60	400	ug/Kg	8270D
Benzo(a)pyrene	590		110	400	ug/Kg	8270D
Benzo(b)fluoranthene	610		67	400	ug/Kg	8270D
Benzo(g,h,i)perylene	430		92	400	ug/Kg	8270D
Benzo(k)fluoranthene	220	J	65	400	ug/Kg	8270D

SAMPLE DETECTION SUMMARY

CLIENT ID: SSB-1 6			Lab ID: R2102621-022			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Chrysene	470		59	400	ug/Kg	8270D
Dibenz(a,h)anthracene	90	J	87	400	ug/Kg	8270D
Fluoranthene	920		100	400	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	410		130	400	ug/Kg	8270D
Phenanthrene	600		57	400	ug/Kg	8270D
Pyrene	760		67	400	ug/Kg	8270D

CLIENT ID: SSB-1 12			Lab ID: R2102621-023			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	86.2				Percent	ALS SOP
Acenaphthene	150	J	73	390	ug/Kg	8270D
Anthracene	370	J	65	390	ug/Kg	8270D
Benz(a)anthracene	1100		58	390	ug/Kg	8270D
Benzo(a)pyrene	1400		110	390	ug/Kg	8270D
Benzo(b)fluoranthene	1300		65	390	ug/Kg	8270D
Benzo(g,h,i)perylene	850		89	390	ug/Kg	8270D
Benzo(k)fluoranthene	490		63	390	ug/Kg	8270D
Chrysene	1100		57	390	ug/Kg	8270D
Dibenz(a,h)anthracene	190	J	84	390	ug/Kg	8270D
Fluoranthene	2400		97	390	ug/Kg	8270D
Fluorene	130	J	73	390	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	890		130	390	ug/Kg	8270D
Phenanthrene	1400		55	390	ug/Kg	8270D
Pyrene	1800		65	390	ug/Kg	8270D

CLIENT ID: SSB-1 24			Lab ID: R2102621-024			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	86.9				Percent	ALS SOP
2-Methylnaphthalene	150	J	64	390	ug/Kg	8270D
Acenaphthene	820		73	390	ug/Kg	8270D
Acenaphthylene	94	J	78	390	ug/Kg	8270D
Anthracene	3100		65	390	ug/Kg	8270D
Benz(a)anthracene	6800		58	390	ug/Kg	8270D
Benzo(a)pyrene	7100		110	390	ug/Kg	8270D
Benzo(b)fluoranthene	7100		65	390	ug/Kg	8270D
Benzo(g,h,i)perylene	2900		89	390	ug/Kg	8270D
Benzo(k)fluoranthene	2600		63	390	ug/Kg	8270D
Chrysene	6000		57	390	ug/Kg	8270D
Dibenz(a,h)anthracene	940		84	390	ug/Kg	8270D
Fluoranthene	10000	E	97	390	ug/Kg	8270D
Fluorene	1100		73	390	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	3600		130	390	ug/Kg	8270D

SAMPLE DETECTION SUMMARY

CLIENT ID: SSB-1 24			Lab ID: R2102621-024			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Naphthalene	210	J	73	390	ug/Kg	8270D
Phenanthrene	7500		55	390	ug/Kg	8270D
Pyrene	8300	E	65	390	ug/Kg	8270D
2-Methylnaphthalene	180	DJ	130	770	ug/Kg	8270D
Acenaphthene	970	D	150	770	ug/Kg	8270D
Anthracene	3600	D	130	770	ug/Kg	8270D
Benz(a)anthracene	8200	D	120	770	ug/Kg	8270D
Benzo(a)pyrene	8500	D	210	770	ug/Kg	8270D
Benzo(b)fluoranthene	8300	D	130	770	ug/Kg	8270D
Benzo(g,h,i)perylene	4300	D	180	770	ug/Kg	8270D
Benzo(k)fluoranthene	3300	D	130	770	ug/Kg	8270D
Chrysene	7300	D	120	770	ug/Kg	8270D
Dibenz(a,h)anthracene	1300	D	170	770	ug/Kg	8270D
Fluoranthene	15000	D	200	770	ug/Kg	8270D
Fluorene	1300	D	150	770	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	5000	D	250	770	ug/Kg	8270D
Naphthalene	230	DJ	150	770	ug/Kg	8270D
Phenanthrene	10000	D	110	770	ug/Kg	8270D
Pyrene	11000	D	130	770	ug/Kg	8270D

Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Leader Professional Services, Inc. **Service Request:**R2102621
Project: Former Bisonite/235.198A

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R2102621-001	SSB-3 0-2	3/18/2021	1235
R2102621-002	SSB-3 6	3/18/2021	1242
R2102621-003	SSB-3 12	3/18/2021	1245
R2102621-004	SSB-3 24	3/18/2021	1250
R2102621-005	SSA-3 0-2	3/18/2021	1300
R2102621-006	SSA-3 6	3/18/2021	1305
R2102621-007	SSA-3 12	3/18/2021	1310
R2102621-008	SSA-3 20	3/18/2021	1312
R2102621-009	SSA-2 0-2	3/18/2021	1320
R2102621-010	SSA-2 6	3/18/2021	1322
R2102621-011	SSA-2 12	3/18/2021	1325
R2102621-012	SSA-2 24	3/18/2021	1330
R2102621-013	SSB-2 0-2	3/18/2021	1340
R2102621-014	SSB-2 6	3/18/2021	1342
R2102621-015	SSB-2 12	3/18/2021	1345
R2102621-016	SSB-2 24	3/18/2021	1347
R2102621-017	SSA-1 0-2	3/18/2021	1350
R2102621-018	SSA-1 6	3/18/2021	1355
R2102621-019	SSA-1 12	3/18/2021	1400
R2102621-020	SSA-1 20	3/18/2021	1405
R2102621-021	SSB-1 0-2	3/18/2021	1410
R2102621-022	SSB-1 6	3/18/2021	1415
R2102621-023	SSB-1 12	3/18/2021	1420
R2102621-024	SSB-1 24	3/18/2021	1430

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

003868

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 3 OF 5

Project Name: Former Bisonite	Project Number: 235.198A
Project Manager: Frank Thomas	Report CC: Pete vonSchonder & Rob Murphy
Company/Address: Leader Professional Services 271 Marsh Rd. Pittsford, NY 14534	
Phone #: 585-248-2913	Email: fthomas@leaderlink.com
Sampler's Signature: Frank Thomas	Sampler's Printed Name: Frank Thomas

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: 400

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	8270 PAH
SSB-3 24" 0-2		3/18/21	12:35	SO		X
SSB-3 6"			12:42			X
SSB-3 12"			12:45			X
SSB-3 24"			12:50			X
SSA-3 0-2"			13:00			X
SSA-3 6"			13:05			X
SSA-3 12"			13:10			X
SSA-3 20"			13:12			X

Preservative Key: 0. NONE; 1. HCL; 2. HNO_3; 3. H_2SO_4; 4. NaOH; 5. Zn. Acetate; 6. MeOH; 7. $NaHSO_4$; 8. Other _____

GCMS VOAs ○ 8260 ○ 624 ○ CLP; GCMS SVOAs ○ 8270 ○ 625; GC VOAs ○ 8021 ○ 601/602; PESTICIDES ○ 8081 ○ 608; PCBs ○ 8082 ○ 608; METALS, TOTAL (List in comments below); METALS, DISSOLVED (List in comments below)

REMARKS/ALTERNATE DESCRIPTION

SPECIAL INSTRUCTIONS/COMMENTS
Metals
above correction made as per Frank Thomas email 4/23/21

See QAPP ☐

TURNAROUND REQUIREMENTS
___ RUSH (SURCHARGES APPLY)
___ 1 day ___ 2 day ___ 3 day
✓ 4 day ___ 5 day
✓ Standard (10 business days-No Surcharge)

REQUESTED REPORT DATE: _____

REPORT REQUIREMENTS
___ I. Results Only
✓ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data

Edata ✓ Yes ___ No

INVOICE INFORMATION
PO # 235.198A
BILL TO: Leader

STATE WHERE SAMPLES WERE COLLECTED

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name	Printed Name Daniel Ward	Printed Name	Printed Name	Printed Name	
Firm	Firm ALS	Firm	Firm	Firm	
Date/Time	Date/Time 3/19/21 / 1650	Date/Time	Date/Time	Date/Time	

R2102621 5
Leader Professional Services, Inc.
Former Bisonite

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

004562

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Project Name: Former Bisonite	Project Number: 235.198A
Project Manager: Frank Thomas	Report CC: Pete vonSchonder, Rob Murphy
Company/Address: Leader Professional Services, 271 Marsh Rd, Pittsford, Ny 14534	
Phone #: 585 248-2413	Email: fthomas@leaderdrilling.com
Sampler's Signature:	Sampler's Printed Name: Frank Thomas

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: 4°C

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	8270D PAH
SSA-2 0-2"		3/18/21	1320	SO		X
SSA-2 6"			1322			X
SSA-2 12"			1325			X
SSA-2 24"			1330			X
SSB-2 0-2"			1340			X
SSB-2 6"			1342			X
SSB-2 12"			1345			X
SSB-2 24"			1347			X

GC/MS VOAs ○ 8260 ○ 624 ○ CLP
GC/MS SVOAs ○ 8270 ○ 625
GC VOAs ○ 8021 ○ 601/602
PESTICIDES ○ 8081 ○ 608
PCBs ○ 8082 ○ 608
METALS, TOTAL (List in comments below)
METALS, DISSOLVED (List in comments below)

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

SPECIAL INSTRUCTIONS/COMMENTS
Metals –

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED

TURNAROUND REQUIREMENTS
___ RUSH (SURCHARGES APPLY)
___ 1 day ___ 2 day ___ 3 day
___ 4 day ___ 5 day
✓ Standard (10 business days-No Surcharge)

REQUESTED REPORT DATE: _____

REPORT REQUIREMENTS
___ I. Results Only
✓ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data

Edata ✓ Yes ___ No

INVOICE INFORMATION
PO # 235.198A
BILL TO: Leader

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name	Printed Name Daniel Ward	Printed Name	Printed Name	Printed Name	
Firm	Firm ALS	Firm	Firm	Firm	
Date/Time	Date/Time 3/19/21/1650	Date/Time	Date/Time	Date/Time	

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Former Bisonite

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

004563

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Project Name: Former Bisonite	Project Number: 235.198A
Project Manager:	Report CC: Pete Vonschwedorf, Rob Murphy
Company/Address: Leader Professional Services, 271 Marsh Rd, Pittsford, NY 14534	
Phone #: 585 248-2413	Email: fthomas@leaderlink.com
Sampler's Signature: Frank Thomas	Sampler's Printed Name: Frank Thomas

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: 4°

NUMBER OF CONTAINERS

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	GC/MS VOAs ◦ 8260 ◦ 624 ◦ CLP	GC/MS SVOAs ◦ 8270 ◦ 625	GC VOAs ◦ 8021 ◦ 601/602	PESTICIDES ◦ 8081 ◦ 608	PCBs ◦ 8082 ◦ 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	8270 PAH								REMARKS/ ALTERNATE DESCRIPTION
SSA-1 0-2"		3/18/21	13:50	SO								X								
SSA-1 6"			1355									X								
SSA-1 12"			1400									X								
SSA-1 20"			1405									X								
SSB-1 0-2"			1410									X								
SSB-1 6"			1415									X								
SSB-1 12"			1420									X								
SSB-1 24"			1430									X								

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other ____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 1 day ____ 2 day ____ 3 day
____ 4 day ____ 5 day
__✓__ Standard (10 business days-No Surcharge)

REQUESTED REPORT DATE: _____

REPORT REQUIREMENTS
____ I. Results Only
__✓__ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data

Edata __X__ Yes ____ No

INVOICE INFORMATION
PO # 235.198A
BILL TO: Leader

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name	Printed Name Daniel Ward	Printed Name	Printed Name	Printed Name	
Firm	Firm ALS	Firm	Firm	Firm	
Date/Time	Date/Time 3/19/21/1650	Date/Time	Date/Time	Date/Time	

Distribution: White - Lab Copy; Yellow - Return to Originator

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Former Bisonite

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Former Bisonite

Cooler Receipt and Preservation Check Form

Project/Client Leader Folder Number

Cooler received on 3/19/21 by: DW

COURIER: ALS UPS FEDEX VELOCITY ~~CLIENT~~

1	Were **Custody seals** on outside of cooler?	Y (NT)
2	**Custody papers** properly completed (ink, signed)?	(Y) N
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N
4	Circle: **Wet Ice** **Dry Ice** **Gel packs** present?	(Y) N

5a	**Perchlorate** samples have required headspace?	Y N (NA)
5b	Did VOA vials, Alk,or Sulfide have sig* **bubbles**?	Y N (NA)
6	Where did the bottles originate?	ALS/ROC CLIENT
7	Soil VOA received as: Bulk Encore 5035set	(NA)

8. Temperature Readings Date: 3/19/21 Time: 1705 ID: IR#7 IR#11 From: Temp Blank Sample Bottle

Observed Temp (°C)	6.90						
Within 0-6°C?	Y (N)*	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below)* Same Day Rule

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R02 by DW on 3/19/21 at 1705
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 3/22/21 Time: 1336 by: [illegible]

9. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
10. Did all bottle labels and tags agree with custody papers? ~~YES~~ (NO)
11. Were correct containers used for the tests indicated? (YES) NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO (N/A)
13. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated (N/A)

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2		HNO_3								
≤2		H_2SO_4								
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-						
		HCl	**	**						

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 101920-151

Explain all Discrepancies/ Other Comments:

* Not enough gel packs provided to each samples down.

SSB3 2-4 on COC
SSB3 0-2 on bottle
time matches

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: [illegible]
PC Secondary Review: [illegible] 3/22/21

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

P:\INTRANET\QAQC\Forms Controlled\Cooler Receipt r19.doc 03/02/2021

Internal Chain of Custody Report

Client: Leader Professional Services, Inc. **Service Request:** R2102621
Project: Former Bisonite/235.198A

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2102621-001.01					
	8270D,ALS SOP,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	
R2102621-002.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	
R2102621-003.01					
	ALS SOP,8270D,8270D,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	
		3/25/2021	0844	In Lab / KSERCU	
		3/25/2021	1056	R-002 / KSERCU	
		3/30/2021	1012	In Lab / VSTAUFFER	
		3/30/2021	1609	R-002 / VSTAUFFER	
R2102621-004.01					
	8270D,ALS SOP,8270D,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	
		3/25/2021	0845	In Lab / KSERCU	
		3/25/2021	1056	R-002 / KSERCU	
		3/30/2021	1012	In Lab / VSTAUFFER	
		3/30/2021	1609	R-002 / VSTAUFFER	
R2102621-005.01					
	ALS SOP,8270D,8270D,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	
		3/25/2021	0845	In Lab / KSERCU	
		3/25/2021	1056	R-002 / KSERCU	
		3/30/2021	1012	In Lab / VSTAUFFER	
		3/30/2021	1609	R-002 / VSTAUFFER	
R2102621-006.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: Leader Professional Services, Inc. **Service Request:** R2102621
Project: Former Bisonite/235.198A

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	ALS SOP,8270D,8270D				
		3/22/2021	1350	SMO / GLAFORCE	
		3/25/2021	0845	In Lab / KSERCU	
		3/25/2021	1057	R-002 / KSERCU	
		3/30/2021	1012	In Lab / VSTAUFFER	
		3/30/2021	1609	R-002 / VSTAUFFER	
R2102621-007.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	
		3/25/2021	0845	In Lab / KSERCU	
		3/25/2021	1057	R-002 / KSERCU	
		3/30/2021	1012	In Lab / VSTAUFFER	
		3/30/2021	1609	R-002 / VSTAUFFER	
R2102621-008.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	
		3/25/2021	0845	In Lab / KSERCU	
		3/25/2021	1057	R-002 / KSERCU	
		3/30/2021	1012	In Lab / VSTAUFFER	
		3/30/2021	1609	R-002 / VSTAUFFER	
R2102621-009.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	
		3/25/2021	0845	In Lab / KSERCU	
		3/25/2021	1056	R-002 / KSERCU	
		3/30/2021	1012	In Lab / VSTAUFFER	
		3/30/2021	1609	R-002 / VSTAUFFER	
R2102621-010.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	
		3/25/2021	0845	In Lab / KSERCU	
		3/25/2021	1056	R-002 / KSERCU	
		3/30/2021	1012	In Lab / VSTAUFFER	

Client: Leader Professional Services, Inc. **Service Request:** R2102621
Project: Former Bisonite/235.198A

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	ALS SOP,8270D,8270D				
		3/30/2021	1609	R-002 / VSTAUFFER	
R2102621-011.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	
		3/25/2021	0845	In Lab / KSERCU	
		3/25/2021	1057	R-002 / KSERCU	
		3/30/2021	1012	In Lab / VSTAUFFER	
		3/30/2021	1609	R-002 / VSTAUFFER	
R2102621-012.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	
		3/25/2021	0845	In Lab / KSERCU	
		3/25/2021	1057	R-002 / KSERCU	
		3/30/2021	1012	In Lab / VSTAUFFER	
		3/30/2021	1609	R-002 / VSTAUFFER	
R2102621-013.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	
		3/25/2021	0845	In Lab / KSERCU	
		3/25/2021	1057	R-002 / KSERCU	
		3/30/2021	1012	In Lab / VSTAUFFER	
		3/30/2021	1609	R-002 / VSTAUFFER	
R2102621-014.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	
		3/25/2021	0845	In Lab / KSERCU	
		3/25/2021	1057	R-002 / KSERCU	
		3/30/2021	1012	In Lab / VSTAUFFER	
		3/30/2021	1609	R-002 / VSTAUFFER	
R2102621-015.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	

Client: Leader Professional Services, Inc. **Service Request:** R2102621
Project: Former Bisonite/235.198A

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	ALS SOP,8270D,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	
		3/25/2021	0845	In Lab / KSERCU	
		3/25/2021	1056	R-002 / KSERCU	
		3/30/2021	1012	In Lab / VSTAUFFER	
		3/30/2021	1609	R-002 / VSTAUFFER	
R2102621-016.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	
		3/25/2021	0845	In Lab / KSERCU	
		3/25/2021	1056	R-002 / KSERCU	
		3/30/2021	1012	In Lab / VSTAUFFER	
		3/30/2021	1609	R-002 / VSTAUFFER	
R2102621-017.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	
		3/25/2021	0845	In Lab / KSERCU	
		3/25/2021	1057	R-002 / KSERCU	
		3/30/2021	1012	In Lab / VSTAUFFER	
		3/30/2021	1609	R-002 / VSTAUFFER	
R2102621-018.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	
		3/25/2021	0845	In Lab / KSERCU	
		3/25/2021	1057	R-002 / KSERCU	
		3/30/2021	1012	In Lab / VSTAUFFER	
		3/30/2021	1609	R-002 / VSTAUFFER	
R2102621-019.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	
		3/25/2021	0845	In Lab / KSERCU	
		3/25/2021	1057	R-002 / KSERCU	

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Internal Chain of Custody Report

Client: Leader Professional Services, Inc. **Service Request:** R2102621
Project: Former Bisonite/235.198A

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	ALS SOP,8270D,8270D				
		3/30/2021	1012	In Lab / VSTAUFFER	
		3/30/2021	1609	R-002 / VSTAUFFER	
R2102621-020.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	
		3/25/2021	0845	In Lab / KSERCU	
		3/25/2021	1057	R-002 / KSERCU	
		3/30/2021	1012	In Lab / VSTAUFFER	
		3/30/2021	1609	R-002 / VSTAUFFER	
R2102621-021.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	
		3/25/2021	0844	In Lab / KSERCU	
		3/25/2021	1056	R-002 / KSERCU	
		3/30/2021	1012	In Lab / VSTAUFFER	
		3/30/2021	1609	R-002 / VSTAUFFER	
R2102621-022.01					
	ALS SOP,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	
R2102621-023.01					
	ALS SOP,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	
R2102621-024.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	

Miscellaneous Forms

ALS Environmental—Rochester Laboratory
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REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E	Organics- Concentration has exceeded the calibration range for that specific analysis.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
H	Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.
#	Spike was diluted out.
+	Correlation coefficient for MSA is <0.995.
N	Inorganics- Matrix spike recovery was outside laboratory limits.
N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S	Concentration has been determined using Method of Standard Additions (MSA).
W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P	Concentration >40% difference between the two GC columns.
C	Confirmed by GC/MS
Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).
X	See Case Narrative for discussion.
MRL LOQ	Method Reporting Limit. Also known as: Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

[1] Analyses were performed according to our laboratoryôs NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: Leader Professional Services, Inc. **Service Request:** R2102621
Project: Former Bisonite/235.198A

Sample Name: SSB-3 0-2 **Date Collected:** 03/18/21
Lab Code: R2102621-001 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	BALLGEIER
ALS SOP		KAWONG

Sample Name: SSB-3 0-2 **Date Collected:** 03/18/21
Lab Code: R2102621-001.R01 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name: SSB-3 6 **Date Collected:** 03/18/21
Lab Code: R2102621-002 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name: SSB-3 6 **Date Collected:** 03/18/21
Lab Code: R2102621-002.R01 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	BALLGEIER

Client: Leader Professional Services, Inc. **Service Request:** R2102621
Project: Former Bisonite/235.198A

Sample Name: SSB-3 12 **Date Collected:** 03/18/21
Lab Code: R2102621-003 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name: SSB-3 12 **Date Collected:** 03/18/21
Lab Code: R2102621-003.R01 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name: SSB-3 12 **Date Collected:** 03/18/21
Lab Code: R2102621-003.R02 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name: SSB-3 24 **Date Collected:** 03/18/21
Lab Code: R2102621-004 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Client: Leader Professional Services, Inc. **Service Request:** R2102621
Project: Former Bisonite/235.198A

Sample Name: SSB-3 24 **Date Collected:** 03/18/21
Lab Code: R2102621-004.R01 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name: SSB-3 24 **Date Collected:** 03/18/21
Lab Code: R2102621-004.R02 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name: SSA-3 0-2 **Date Collected:** 03/18/21
Lab Code: R2102621-005 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name: SSA-3 0-2 **Date Collected:** 03/18/21
Lab Code: R2102621-005.R01 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Client: Leader Professional Services, Inc. **Service Request:** R2102621
Project: Former Bisonite/235.198A

Sample Name: SSA-3 0-2 **Date Collected:** 03/18/21
Lab Code: R2102621-005.R02 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name: SSA-3 6 **Date Collected:** 03/18/21
Lab Code: R2102621-006 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name: SSA-3 6 **Date Collected:** 03/18/21
Lab Code: R2102621-006.R01 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name: SSA-3 12 **Date Collected:** 03/18/21
Lab Code: R2102621-007 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Client: Leader Professional Services, Inc. **Service Request:** R2102621
Project: Former Bisonite/235.198A

Sample Name: SSA-3 12 **Date Collected:** 03/18/21
Lab Code: R2102621-007.R01 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name: SSA-3 20 **Date Collected:** 03/18/21
Lab Code: R2102621-008 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name: SSA-3 20 **Date Collected:** 03/18/21
Lab Code: R2102621-008.R01 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name: SSA-2 0-2 **Date Collected:** 03/18/21
Lab Code: R2102621-009 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Client: Leader Professional Services, Inc. **Service Request:** R2102621
Project: Former Bisonite/235.198A

Sample Name: SSA-2 0-2 **Date Collected:** 03/18/21
Lab Code: R2102621-009.R01 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name: SSA-2 6 **Date Collected:** 03/18/21
Lab Code: R2102621-010 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name: SSA-2 6 **Date Collected:** 03/18/21
Lab Code: R2102621-010.R01 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name: SSA-2 12 **Date Collected:** 03/18/21
Lab Code: R2102621-011 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Client: Leader Professional Services, Inc. **Service Request:** R2102621
Project: Former Bisonite/235.198A

Sample Name: SSA-2 12 **Date Collected:** 03/18/21
Lab Code: R2102621-011.R01 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name: SSA-2 24 **Date Collected:** 03/18/21
Lab Code: R2102621-012 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name: SSA-2 24 **Date Collected:** 03/18/21
Lab Code: R2102621-012.R01 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name: SSB-2 0-2 **Date Collected:** 03/18/21
Lab Code: R2102621-013 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Client: Leader Professional Services, Inc. **Service Request:** R2102621
Project: Former Bisonite/235.198A

Sample Name: SSB-2 0-2 **Date Collected:** 03/18/21
Lab Code: R2102621-013.R01 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name: SSB-2 6 **Date Collected:** 03/18/21
Lab Code: R2102621-014 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name: SSB-2 6 **Date Collected:** 03/18/21
Lab Code: R2102621-014.R01 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name: SSB-2 12 **Date Collected:** 03/18/21
Lab Code: R2102621-015 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Client: Leader Professional Services, Inc. **Service Request:** R2102621
Project: Former Bisonite/235.198A

Sample Name: SSB-2 12 **Date Collected:** 03/18/21
Lab Code: R2102621-015.R01 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name: SSB-2 24 **Date Collected:** 03/18/21
Lab Code: R2102621-016 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name: SSB-2 24 **Date Collected:** 03/18/21
Lab Code: R2102621-016.R01 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name: SSA-1 0-2 **Date Collected:** 03/18/21
Lab Code: R2102621-017 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Client: Leader Professional Services, Inc. **Service Request:** R2102621
Project: Former Bisonite/235.198A

Sample Name: SSA-1 0-2 **Date Collected:** 03/18/21
Lab Code: R2102621-017.R01 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name: SSA-1 6 **Date Collected:** 03/18/21
Lab Code: R2102621-018 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name: SSA-1 6 **Date Collected:** 03/18/21
Lab Code: R2102621-018.R01 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name: SSA-1 12 **Date Collected:** 03/18/21
Lab Code: R2102621-019 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Client: Leader Professional Services, Inc. **Service Request:** R2102621
Project: Former Bisonite/235.198A

Sample Name: SSA-1 12 **Date Collected:** 03/18/21
Lab Code: R2102621-019.R01 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name: SSA-1 20 **Date Collected:** 03/18/21
Lab Code: R2102621-020 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name: SSA-1 20 **Date Collected:** 03/18/21
Lab Code: R2102621-020.R01 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name: SSB-1 0-2 **Date Collected:** 03/18/21
Lab Code: R2102621-021 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Client: Leader Professional Services, Inc. **Service Request:** R2102621
Project: Former Bisonite/235.198A

Sample Name: SSB-1 0-2 **Date Collected:** 03/18/21
Lab Code: R2102621-021.R01 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name: SSB-1 6 **Date Collected:** 03/18/21
Lab Code: R2102621-022 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	BALLGEIER
ALS SOP		KAWONG

Sample Name: SSB-1 12 **Date Collected:** 03/18/21
Lab Code: R2102621-023 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	BALLGEIER
ALS SOP		KAWONG

Sample Name: SSB-1 24 **Date Collected:** 03/18/21
Lab Code: R2102621-024 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A		

Sample Name:	SSB-1 24	**Date Collected:**	03/18/21
Lab Code:	R2102621-024.R01	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	BALLGEIER

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	

Sample Results

ALS Environmental—Rochester Laboratory
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Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
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Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:35
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-3 0-2	**Units:**	ug/Kg
Lab Code:	R2102621-001	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	970 U	970	170	2	03/29/21 21:57	3/24/21	
Acenaphthene	970 U	970	190	2	03/29/21 21:57	3/24/21	
Acenaphthylene	970 U	970	200	2	03/29/21 21:57	3/24/21	
Anthracene	**700 DJ**	970	170	2	03/29/21 21:57	3/24/21	
Benz(a)anthracene	**5300 D**	970	150	2	03/29/21 21:57	3/24/21	
Benzo(a)pyrene	**9200 D**	970	260	2	03/29/21 21:57	3/24/21	
Benzo(b)fluoranthene	**12000 D**	970	170	2	03/29/21 21:57	3/24/21	
Benzo(g,h,i)perylene	**6300 D**	970	230	2	03/29/21 21:57	3/24/21	
Benzo(k)fluoranthene	**3900 D**	970	160	2	03/29/21 21:57	3/24/21	
Chrysene	**8500 D**	970	150	2	03/29/21 21:57	3/24/21	
Dibenz(a,h)anthracene	**1200 D**	970	220	2	03/29/21 21:57	3/24/21	
Fluoranthene	**15000 D**	970	250	2	03/29/21 21:57	3/24/21	
Fluorene	**210 DJ**	970	190	2	03/29/21 21:57	3/24/21	
Indeno(1,2,3-cd)pyrene	**6400 D**	970	320	2	03/29/21 21:57	3/24/21	
Naphthalene	970 U	970	190	2	03/29/21 21:57	3/24/21	
Phenanthrene	**5000 D**	970	140	2	03/29/21 21:57	3/24/21	
Pyrene	**12000 D**	970	170	2	03/29/21 21:57	3/24/21	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:35
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-3 0-2	**Units:**	ug/Kg
Lab Code:	R2102621-001	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	49	10 - 102	03/29/21 21:57	
Nitrobenzene-d5	51	10 - 95	03/29/21 21:57	
p-Terphenyl-d14	60	10 - 106	03/29/21 21:57	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:35
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-3 0-2	**Units:**	ug/Kg
Lab Code:	R2102621-001	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	490	U	490	81	1	03/26/21 22:18	3/24/21	
Acenaphthene	**130**	**J**	490	92	1	03/26/21 22:18	3/24/21	
Acenaphthylene	**140**	**J**	490	98	1	03/26/21 22:18	3/24/21	
Anthracene	**680**		490	81	1	03/26/21 22:18	3/24/21	
Benz(a)anthracene	**4900**		490	72	1	03/26/21 22:18	3/24/21	
Benzo(a)pyrene	**8700**		490	130	1	03/26/21 22:18	3/24/21	
Benzo(b)fluoranthene	**12000**	**E**	490	81	1	03/26/21 22:18	3/24/21	
Benzo(g,h,i)perylene	**7000**		490	120	1	03/26/21 22:18	3/24/21	
Benzo(k)fluoranthene	**4100**		490	79	1	03/26/21 22:18	3/24/21	
Chrysene	**7900**		490	72	1	03/26/21 22:18	3/24/21	
Dibenz(a,h)anthracene	**1300**		490	110	1	03/26/21 22:18	3/24/21	
Fluoranthene	**12000**	**E**	490	130	1	03/26/21 22:18	3/24/21	
Fluorene	**210**	**J**	490	91	1	03/26/21 22:18	3/24/21	
Indeno(1,2,3-cd)pyrene	**6700**		490	160	1	03/26/21 22:18	3/24/21	
Naphthalene	**95**	**J**	490	91	1	03/26/21 22:18	3/24/21	
Phenanthrene	**4700**		490	69	1	03/26/21 22:18	3/24/21	
Pyrene	**10000**	**E**	490	81	1	03/26/21 22:18	3/24/21	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:35
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-3 0-2	**Units:**	ug/Kg
Lab Code:	R2102621-001	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	47	10 - 102	03/26/21 22:18	
Nitrobenzene-d5	48	10 - 95	03/26/21 22:18	
p-Terphenyl-d14	58	10 - 106	03/26/21 22:18	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:42
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-3 6	**Units:**	ug/Kg
Lab Code:	R2102621-002	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	2000	U	2000	330	5	03/29/21 22:25	3/24/21	
Acenaphthene	2000	U	2000	380	5	03/29/21 22:25	3/24/21	
Acenaphthylene	2000	U	2000	400	5	03/29/21 22:25	3/24/21	
Anthracene	**1900**	**J**	2000	330	5	03/29/21 22:25	3/24/21	
Benz(a)anthracene	**15000**		2000	300	5	03/29/21 22:25	3/24/21	
Benzo(a)pyrene	**25000**		2000	530	5	03/29/21 22:25	3/24/21	
Benzo(b)fluoranthene	**34000**		2000	330	5	03/29/21 22:25	3/24/21	
Benzo(g,h,i)perylene	**17000**		2000	460	5	03/29/21 22:25	3/24/21	
Benzo(k)fluoranthene	**11000**		2000	320	5	03/29/21 22:25	3/24/21	
Chrysene	**24000**		2000	290	5	03/29/21 22:25	3/24/21	
Dibenz(a,h)anthracene	**3200**		2000	430	5	03/29/21 22:25	3/24/21	
Fluoranthene	**41000**	**E**	2000	500	5	03/29/21 22:25	3/24/21	
Fluorene	**570**	**J**	2000	370	5	03/29/21 22:25	3/24/21	
Indeno(1,2,3-cd)pyrene	**17000**		2000	640	5	03/29/21 22:25	3/24/21	
Naphthalene	2000	U	2000	370	5	03/29/21 22:25	3/24/21	
Phenanthrene	**15000**		2000	280	5	03/29/21 22:25	3/24/21	
Pyrene	**34000**		2000	330	5	03/29/21 22:25	3/24/21	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:42
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-3 6	**Units:**	ug/Kg
Lab Code:	R2102621-002	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	49	10 - 102	03/29/21 22:25	
Nitrobenzene-d5	53	10 - 95	03/29/21 22:25	
p-Terphenyl-d14	60	10 - 106	03/29/21 22:25	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:42
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-3 6	**Units:**	ug/Kg
Lab Code:	R2102621-002	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	4000 U	4000	660	10	03/31/21 21:00	3/24/21	
Acenaphthene	4000 U	4000	750	10	03/31/21 21:00	3/24/21	
Acenaphthylene	4000 U	4000	800	10	03/31/21 21:00	3/24/21	
Anthracene	**2000 DJ**	4000	660	10	03/31/21 21:00	3/24/21	
Benz(a)anthracene	**16000 D**	4000	590	10	03/31/21 21:00	3/24/21	
Benzo(a)pyrene	**27000 D**	4000	1100	10	03/31/21 21:00	3/24/21	
Benzo(b)fluoranthene	**35000 D**	4000	660	10	03/31/21 21:00	3/24/21	
Benzo(g,h,i)perylene	**20000 D**	4000	910	10	03/31/21 21:00	3/24/21	
Benzo(k)fluoranthene	**12000 D**	4000	640	10	03/31/21 21:00	3/24/21	
Chrysene	**26000 D**	4000	580	10	03/31/21 21:00	3/24/21	
Dibenz(a,h)anthracene	**3900 DJ**	4000	860	10	03/31/21 21:00	3/24/21	
Fluoranthene	**50000 D**	4000	990	10	03/31/21 21:00	3/24/21	
Fluorene	4000 U	4000	740	10	03/31/21 21:00	3/24/21	
Indeno(1,2,3-cd)pyrene	**20000 D**	4000	1300	10	03/31/21 21:00	3/24/21	
Naphthalene	4000 U	4000	740	10	03/31/21 21:00	3/24/21	
Phenanthrene	**17000 D**	4000	560	10	03/31/21 21:00	3/24/21	
Pyrene	**39000 D**	4000	660	10	03/31/21 21:00	3/24/21	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:42
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-3 6	**Units:**	ug/Kg
Lab Code:	R2102621-002	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	52	10 - 102	03/31/21 21:00	
Nitrobenzene-d5	57	10 - 95	03/31/21 21:00	
p-Terphenyl-d14	66	10 - 106	03/31/21 21:00	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:45
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-3 12	**Units:**	ug/Kg
Lab Code:	R2102621-003	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	1100	U	1100	190	3	04/02/21 13:48	3/30/21	
Acenaphthene	**510**	**J**	1100	220	3	04/02/21 13:48	3/30/21	
Acenaphthylene	1100	U	1100	230	3	04/02/21 13:48	3/30/21	
Anthracene	**1400**		1100	190	3	04/02/21 13:48	3/30/21	
Benz(a)anthracene	**7100**		1100	170	3	04/02/21 13:48	3/30/21	
Benzo(a)pyrene	**10000**		1100	300	3	04/02/21 13:48	3/30/21	
Benzo(b)fluoranthene	**13000**		1100	190	3	04/02/21 13:48	3/30/21	
Benzo(g,h,i)perylene	**7800**		1100	260	3	04/02/21 13:48	3/30/21	
Benzo(k)fluoranthene	**4800**		1100	190	3	04/02/21 13:48	3/30/21	
Chrysene	**10000**		1100	170	3	04/02/21 13:48	3/30/21	
Dibenz(a,h)anthracene	**1500**		1100	250	3	04/02/21 13:48	3/30/21	
Fluoranthene	**18000**		1100	290	3	04/02/21 13:48	3/30/21	
Fluorene	**580**	**J**	1100	220	3	04/02/21 13:48	3/30/21	
Indeno(1,2,3-cd)pyrene	**7500**		1100	370	3	04/02/21 13:48	3/30/21	
Naphthalene	1100	U	1100	220	3	04/02/21 13:48	3/30/21	
Phenanthrene	**8000**		1100	160	3	04/02/21 13:48	3/30/21	
Pyrene	**15000**		1100	190	3	04/02/21 13:48	3/30/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	47	10 - 102	04/02/21 13:48	
Nitrobenzene-d5	44	10 - 95	04/02/21 13:48	
p-Terphenyl-d14	59	10 - 106	04/02/21 13:48	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:50
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-3 24	**Units:**	ug/Kg
Lab Code:	R2102621-004	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	780	U	780	130	2	04/02/21 15:13	3/30/21	
Acenaphthene	780	U	780	150	2	04/02/21 15:13	3/30/21	
Acenaphthylene	780	U	780	160	2	04/02/21 15:13	3/30/21	
Anthracene	**230**	**J**	780	140	2	04/02/21 15:13	3/30/21	
Benz(a)anthracene	**1500**		780	120	2	04/02/21 15:13	3/30/21	
Benzo(a)pyrene	**2200**		780	210	2	04/02/21 15:13	3/30/21	
Benzo(b)fluoranthene	**2900**		780	130	2	04/02/21 15:13	3/30/21	
Benzo(g,h,i)perylene	**1800**		780	180	2	04/02/21 15:13	3/30/21	
Benzo(k)fluoranthene	**1100**		780	130	2	04/02/21 15:13	3/30/21	
Chrysene	**2400**		780	120	2	04/02/21 15:13	3/30/21	
Dibenz(a,h)anthracene	**330**	**J**	780	170	2	04/02/21 15:13	3/30/21	
Fluoranthene	**4400**		780	200	2	04/02/21 15:13	3/30/21	
Fluorene	780	U	780	150	2	04/02/21 15:13	3/30/21	
Indeno(1,2,3-cd)pyrene	**1700**		780	260	2	04/02/21 15:13	3/30/21	
Naphthalene	780	U	780	150	2	04/02/21 15:13	3/30/21	
Phenanthrene	**1700**		780	120	2	04/02/21 15:13	3/30/21	
Pyrene	**3500**		780	130	2	04/02/21 15:13	3/30/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	45	10 - 102	04/02/21 15:13	
Nitrobenzene-d5	41	10 - 95	04/02/21 15:13	
p-Terphenyl-d14	57	10 - 106	04/02/21 15:13	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:00
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-3 0-2	**Units:**	ug/Kg
Lab Code:	R2102621-005	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	1200	U	1200	210	3	04/02/21 15:41	3/30/21	
Acenaphthene	1200	U	1200	240	3	04/02/21 15:41	3/30/21	
Acenaphthylene	1200	U	1200	250	3	04/02/21 15:41	3/30/21	
Anthracene	**690**	**J**	1200	210	3	04/02/21 15:41	3/30/21	
Benz(a)anthracene	**4000**		1200	190	3	04/02/21 15:41	3/30/21	
Benzo(a)pyrene	**6100**		1200	330	3	04/02/21 15:41	3/30/21	
Benzo(b)fluoranthene	**7600**		1200	210	3	04/02/21 15:41	3/30/21	
Benzo(g,h,i)perylene	**4800**		1200	290	3	04/02/21 15:41	3/30/21	
Benzo(k)fluoranthene	**2800**		1200	200	3	04/02/21 15:41	3/30/21	
Chrysene	**5900**		1200	180	3	04/02/21 15:41	3/30/21	
Dibenz(a,h)anthracene	**920**	**J**	1200	270	3	04/02/21 15:41	3/30/21	
Fluoranthene	**10000**		1200	310	3	04/02/21 15:41	3/30/21	
Fluorene	1200	U	1200	230	3	04/02/21 15:41	3/30/21	
Indeno(1,2,3-cd)pyrene	**4600**		1200	400	3	04/02/21 15:41	3/30/21	
Naphthalene	1200	U	1200	230	3	04/02/21 15:41	3/30/21	
Phenanthrene	**3800**		1200	180	3	04/02/21 15:41	3/30/21	
Pyrene	**8200**		1200	210	3	04/02/21 15:41	3/30/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	46	10 - 102	04/02/21 15:41	
Nitrobenzene-d5	42	10 - 95	04/02/21 15:41	
p-Terphenyl-d14	65	10 - 106	04/02/21 15:41	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:05
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-3 6	**Units:**	ug/Kg
Lab Code:	R2102621-006	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	450	U	450	75	1	04/02/21 16:10	3/30/21	
Acenaphthene	450	U	450	86	1	04/02/21 16:10	3/30/21	
Acenaphthylene	450	U	450	92	1	04/02/21 16:10	3/30/21	
Anthracene	**460**		450	76	1	04/02/21 16:10	3/30/21	
Benz(a)anthracene	**2700**		450	68	1	04/02/21 16:10	3/30/21	
Benzo(a)pyrene	**4000**		450	130	1	04/02/21 16:10	3/30/21	
Benzo(b)fluoranthene	**5100**		450	76	1	04/02/21 16:10	3/30/21	
Benzo(g,h,i)perylene	**2900**		450	110	1	04/02/21 16:10	3/30/21	
Benzo(k)fluoranthene	**1700**		450	73	1	04/02/21 16:10	3/30/21	
Chrysene	**3900**		450	67	1	04/02/21 16:10	3/30/21	
Dibenz(a,h)anthracene	**580**		450	99	1	04/02/21 16:10	3/30/21	
Fluoranthene	**6800**		450	120	1	04/02/21 16:10	3/30/21	
Fluorene	**130**	**J**	450	85	1	04/02/21 16:10	3/30/21	
Indeno(1,2,3-cd)pyrene	**2800**		450	150	1	04/02/21 16:10	3/30/21	
Naphthalene	450	U	450	85	1	04/02/21 16:10	3/30/21	
Phenanthrene	**2800**		450	64	1	04/02/21 16:10	3/30/21	
Pyrene	**5500**		450	76	1	04/02/21 16:10	3/30/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	41	10 - 102	04/02/21 16:10	
Nitrobenzene-d5	39	10 - 95	04/02/21 16:10	
p-Terphenyl-d14	61	10 - 106	04/02/21 16:10	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:10
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-3 12	**Units:**	ug/Kg
Lab Code:	R2102621-007	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	450	U	450	74	1	04/02/21 16:39	3/30/21	
Acenaphthene	450	U	450	85	1	04/02/21 16:39	3/30/21	
Acenaphthylene	450	U	450	91	1	04/02/21 16:39	3/30/21	
Anthracene	**92**	**J**	450	75	1	04/02/21 16:39	3/30/21	
Benz(a)anthracene	**530**		450	67	1	04/02/21 16:39	3/30/21	
Benzo(a)pyrene	**870**		450	120	1	04/02/21 16:39	3/30/21	
Benzo(b)fluoranthene	**1200**		450	75	1	04/02/21 16:39	3/30/21	
Benzo(g,h,i)perylene	**720**		450	110	1	04/02/21 16:39	3/30/21	
Benzo(k)fluoranthene	**410**	**J**	450	73	1	04/02/21 16:39	3/30/21	
Chrysene	**800**		450	66	1	04/02/21 16:39	3/30/21	
Dibenz(a,h)anthracene	**140**	**J**	450	98	1	04/02/21 16:39	3/30/21	
Fluoranthene	**1300**		450	120	1	04/02/21 16:39	3/30/21	
Fluorene	450	U	450	84	1	04/02/21 16:39	3/30/21	
Indeno(1,2,3-cd)pyrene	**670**		450	150	1	04/02/21 16:39	3/30/21	
Naphthalene	450	U	450	84	1	04/02/21 16:39	3/30/21	
Phenanthrene	**560**		450	64	1	04/02/21 16:39	3/30/21	
Pyrene	**1100**		450	75	1	04/02/21 16:39	3/30/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	38	10 - 102	04/02/21 16:39	
Nitrobenzene-d5	33	10 - 95	04/02/21 16:39	
p-Terphenyl-d14	47	10 - 106	04/02/21 16:39	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:12
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-3 20	**Units:**	ug/Kg
Lab Code:	R2102621-008	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	470	U	470	78	1	04/02/21 17:08	3/30/21	
Acenaphthene	470	U	470	89	1	04/02/21 17:08	3/30/21	
Acenaphthylene	470	U	470	95	1	04/02/21 17:08	3/30/21	
Anthracene	470	U	470	79	1	04/02/21 17:08	3/30/21	
Benz(a)anthracene	**480**		470	70	1	04/02/21 17:08	3/30/21	
Benzo(a)pyrene	**800**		470	130	1	04/02/21 17:08	3/30/21	
Benzo(b)fluoranthene	**1100**		470	79	1	04/02/21 17:08	3/30/21	
Benzo(g,h,i)perylene	**620**		470	110	1	04/02/21 17:08	3/30/21	
Benzo(k)fluoranthene	**350**	**J**	470	76	1	04/02/21 17:08	3/30/21	
Chrysene	**780**		470	69	1	04/02/21 17:08	3/30/21	
Dibenz(a,h)anthracene	**120**	**J**	470	110	1	04/02/21 17:08	3/30/21	
Fluoranthene	**1200**		470	120	1	04/02/21 17:08	3/30/21	
Fluorene	470	U	470	88	1	04/02/21 17:08	3/30/21	
Indeno(1,2,3-cd)pyrene	**600**		470	160	1	04/02/21 17:08	3/30/21	
Naphthalene	470	U	470	88	1	04/02/21 17:08	3/30/21	
Phenanthrene	**490**		470	67	1	04/02/21 17:08	3/30/21	
Pyrene	**1000**		470	78	1	04/02/21 17:08	3/30/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	52	10 - 102	04/02/21 17:08	
Nitrobenzene-d5	51	10 - 95	04/02/21 17:08	
p-Terphenyl-d14	74	10 - 106	04/02/21 17:08	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:20
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-2 0-2	**Units:**	ug/Kg
Lab Code:	R2102621-009	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	1800	U	1800	300	3	04/02/21 17:38	3/30/21	
Acenaphthene	**420**	**J**	1800	350	3	04/02/21 17:38	3/30/21	
Acenaphthylene	1800	U	1800	370	3	04/02/21 17:38	3/30/21	
Anthracene	**1600**	**J**	1800	310	3	04/02/21 17:38	3/30/21	
Benz(a)anthracene	**7200**		1800	270	3	04/02/21 17:38	3/30/21	
Benzo(a)pyrene	**9400**		1800	490	3	04/02/21 17:38	3/30/21	
Benzo(b)fluoranthene	**12000**		1800	310	3	04/02/21 17:38	3/30/21	
Benzo(g,h,i)perylene	**6500**		1800	420	3	04/02/21 17:38	3/30/21	
Benzo(k)fluoranthene	**4200**		1800	300	3	04/02/21 17:38	3/30/21	
Chrysene	**9900**		1800	270	3	04/02/21 17:38	3/30/21	
Dibenz(a,h)anthracene	**1300**	**J**	1800	400	3	04/02/21 17:38	3/30/21	
Fluoranthene	**22000**		1800	460	3	04/02/21 17:38	3/30/21	
Fluorene	**650**	**J**	1800	340	3	04/02/21 17:38	3/30/21	
Indeno(1,2,3-cd)pyrene	**6400**		1800	590	3	04/02/21 17:38	3/30/21	
Naphthalene	1800	U	1800	340	3	04/02/21 17:38	3/30/21	
Phenanthrene	**12000**		1800	260	3	04/02/21 17:38	3/30/21	
Pyrene	**18000**		1800	310	3	04/02/21 17:38	3/30/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	36	10 - 102	04/02/21 17:38	
Nitrobenzene-d5	33	10 - 95	04/02/21 17:38	
p-Terphenyl-d14	55	10 - 106	04/02/21 17:38	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:22
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-2 6	**Units:**	ug/Kg
Lab Code:	R2102621-010	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	2400	U	2400	400	5	04/02/21 18:07	3/30/21	
Acenaphthene	**790**	**J**	2400	460	5	04/02/21 18:07	3/30/21	
Acenaphthylene	2400	U	2400	490	5	04/02/21 18:07	3/30/21	
Anthracene	**1700**	**J**	2400	410	5	04/02/21 18:07	3/30/21	
Benz(a)anthracene	**7500**		2400	360	5	04/02/21 18:07	3/30/21	
Benzo(a)pyrene	**9900**		2400	640	5	04/02/21 18:07	3/30/21	
Benzo(b)fluoranthene	**13000**		2400	400	5	04/02/21 18:07	3/30/21	
Benzo(g,h,i)perylene	**6300**		2400	550	5	04/02/21 18:07	3/30/21	
Benzo(k)fluoranthene	**5100**		2400	390	5	04/02/21 18:07	3/30/21	
Chrysene	**11000**		2400	360	5	04/02/21 18:07	3/30/21	
Dibenz(a,h)anthracene	**1300**	**J**	2400	530	5	04/02/21 18:07	3/30/21	
Fluoranthene	**29000**		2400	610	5	04/02/21 18:07	3/30/21	
Fluorene	**1200**	**J**	2400	450	5	04/02/21 18:07	3/30/21	
Indeno(1,2,3-cd)pyrene	**6200**		2400	780	5	04/02/21 18:07	3/30/21	
Naphthalene	2400	U	2400	450	5	04/02/21 18:07	3/30/21	
Phenanthrene	**20000**		2400	340	5	04/02/21 18:07	3/30/21	
Pyrene	**22000**		2400	400	5	04/02/21 18:07	3/30/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	39	10 - 102	04/02/21 18:07	
Nitrobenzene-d5	33	10 - 95	04/02/21 18:07	
p-Terphenyl-d14	55	10 - 106	04/02/21 18:07	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:25
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-2 12	**Units:**	ug/Kg
Lab Code:	R2102621-011	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	420	U	420	70	1	04/02/21 18:36	3/30/21	
Acenaphthene	**160**	**J**	420	80	1	04/02/21 18:36	3/30/21	
Acenaphthylene	420	U	420	85	1	04/02/21 18:36	3/30/21	
Anthracene	**420**	**J**	420	70	1	04/02/21 18:36	3/30/21	
Benz(a)anthracene	**1300**		420	63	1	04/02/21 18:36	3/30/21	
Benzo(a)pyrene	**1700**		420	120	1	04/02/21 18:36	3/30/21	
Benzo(b)fluoranthene	**2000**		420	70	1	04/02/21 18:36	3/30/21	
Benzo(g,h,i)perylene	**1000**		420	97	1	04/02/21 18:36	3/30/21	
Benzo(k)fluoranthene	**780**		420	68	1	04/02/21 18:36	3/30/21	
Chrysene	**1600**		420	62	1	04/02/21 18:36	3/30/21	
Dibenz(a,h)anthracene	**230**	**J**	420	91	1	04/02/21 18:36	3/30/21	
Fluoranthene	**3200**		420	110	1	04/02/21 18:36	3/30/21	
Fluorene	**190**	**J**	420	79	1	04/02/21 18:36	3/30/21	
Indeno(1,2,3-cd)pyrene	**1000**		420	140	1	04/02/21 18:36	3/30/21	
Naphthalene	420	U	420	79	1	04/02/21 18:36	3/30/21	
Phenanthrene	**1900**		420	60	1	04/02/21 18:36	3/30/21	
Pyrene	**2600**		420	70	1	04/02/21 18:36	3/30/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	42	10 - 102	04/02/21 18:36	
Nitrobenzene-d5	37	10 - 95	04/02/21 18:36	
p-Terphenyl-d14	61	10 - 106	04/02/21 18:36	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:30
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-2 24	**Units:**	ug/Kg
Lab Code:	R2102621-012	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	400	U	400	67	1	04/02/21 19:05	3/30/21	
Acenaphthene	400	U	400	77	1	04/02/21 19:05	3/30/21	
Acenaphthylene	400	U	400	82	1	04/02/21 19:05	3/30/21	
Anthracene	**110**	**J**	400	68	1	04/02/21 19:05	3/30/21	
Benz(a)anthracene	**480**		400	60	1	04/02/21 19:05	3/30/21	
Benzo(a)pyrene	**630**		400	110	1	04/02/21 19:05	3/30/21	
Benzo(b)fluoranthene	**840**		400	68	1	04/02/21 19:05	3/30/21	
Benzo(g,h,i)perylene	**430**		400	93	1	04/02/21 19:05	3/30/21	
Benzo(k)fluoranthene	**290**	**J**	400	66	1	04/02/21 19:05	3/30/21	
Chrysene	**630**		400	60	1	04/02/21 19:05	3/30/21	
Dibenz(a,h)anthracene	**88**	**J**	400	88	1	04/02/21 19:05	3/30/21	
Fluoranthene	**1300**		400	110	1	04/02/21 19:05	3/30/21	
Fluorene	400	U	400	76	1	04/02/21 19:05	3/30/21	
Indeno(1,2,3-cd)pyrene	**440**		400	130	1	04/02/21 19:05	3/30/21	
Naphthalene	400	U	400	76	1	04/02/21 19:05	3/30/21	
Phenanthrene	**580**		400	57	1	04/02/21 19:05	3/30/21	
Pyrene	**1000**		400	67	1	04/02/21 19:05	3/30/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	36	10 - 102	04/02/21 19:05	
Nitrobenzene-d5	32	10 - 95	04/02/21 19:05	
p-Terphenyl-d14	51	10 - 106	04/02/21 19:05	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:40
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-2 0-2	**Units:**	ug/Kg
Lab Code:	R2102621-013	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	410 U	410	67	1	04/02/21 19:33	3/30/21	
Acenaphthene	410 U	410	77	1	04/02/21 19:33	3/30/21	
Acenaphthylene	410 U	410	82	1	04/02/21 19:33	3/30/21	
Anthracene	**120 J**	410	68	1	04/02/21 19:33	3/30/21	
Benz(a)anthracene	**380 J**	410	61	1	04/02/21 19:33	3/30/21	
Benzo(a)pyrene	**490**	410	110	1	04/02/21 19:33	3/30/21	
Benzo(b)fluoranthene	**630**	410	68	1	04/02/21 19:33	3/30/21	
Benzo(g,h,i)perylene	**330 J**	410	93	1	04/02/21 19:33	3/30/21	
Benzo(k)fluoranthene	**220 J**	410	66	1	04/02/21 19:33	3/30/21	
Chrysene	**430**	410	60	1	04/02/21 19:33	3/30/21	
Dibenz(a,h)anthracene	410 U	410	88	1	04/02/21 19:33	3/30/21	
Fluoranthene	**760**	410	110	1	04/02/21 19:33	3/30/21	
Fluorene	410 U	410	76	1	04/02/21 19:33	3/30/21	
Indeno(1,2,3-cd)pyrene	**320 J**	410	140	1	04/02/21 19:33	3/30/21	
Naphthalene	410 U	410	76	1	04/02/21 19:33	3/30/21	
Phenanthrene	**400 J**	410	58	1	04/02/21 19:33	3/30/21	
Pyrene	**640**	410	68	1	04/02/21 19:33	3/30/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	43	10 - 102	04/02/21 19:33	
Nitrobenzene-d5	38	10 - 95	04/02/21 19:33	
p-Terphenyl-d14	54	10 - 106	04/02/21 19:33	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:42
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-2 6	**Units:**	ug/Kg
Lab Code:	R2102621-014	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	370	U	370	61	1	04/02/21 20:02	3/30/21	
Acenaphthene	370	U	370	70	1	04/02/21 20:02	3/30/21	
Acenaphthylene	370	U	370	75	1	04/02/21 20:02	3/30/21	
Anthracene	370	U	370	62	1	04/02/21 20:02	3/30/21	
Benz(a)anthracene	**88**	**J**	370	55	1	04/02/21 20:02	3/30/21	
Benzo(a)pyrene	**110**	**J**	370	99	1	04/02/21 20:02	3/30/21	
Benzo(b)fluoranthene	**120**	**J**	370	62	1	04/02/21 20:02	3/30/21	
Benzo(g,h,i)perylene	370	U	370	85	1	04/02/21 20:02	3/30/21	
Benzo(k)fluoranthene	370	U	370	60	1	04/02/21 20:02	3/30/21	
Chrysene	**82**	**J**	370	55	1	04/02/21 20:02	3/30/21	
Dibenz(a,h)anthracene	370	U	370	81	1	04/02/21 20:02	3/30/21	
Fluoranthene	**160**	**J**	370	93	1	04/02/21 20:02	3/30/21	
Fluorene	370	U	370	69	1	04/02/21 20:02	3/30/21	
Indeno(1,2,3-cd)pyrene	370	U	370	120	1	04/02/21 20:02	3/30/21	
Naphthalene	370	U	370	70	1	04/02/21 20:02	3/30/21	
Phenanthrene	**75**	**J**	370	53	1	04/02/21 20:02	3/30/21	
Pyrene	**130**	**J**	370	62	1	04/02/21 20:02	3/30/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	49	10 - 102	04/02/21 20:02	
Nitrobenzene-d5	43	10 - 95	04/02/21 20:02	
p-Terphenyl-d14	65	10 - 106	04/02/21 20:02	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:45
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-2 12	**Units:**	ug/Kg
Lab Code:	R2102621-015	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	380	U	380	63	1	04/02/21 20:30	3/30/21	
Acenaphthene	**78**	**J**	380	72	1	04/02/21 20:30	3/30/21	
Acenaphthylene	380	U	380	77	1	04/02/21 20:30	3/30/21	
Anthracene	**270**	**J**	380	64	1	04/02/21 20:30	3/30/21	
Benz(a)anthracene	**1200**		380	57	1	04/02/21 20:30	3/30/21	
Benzo(a)pyrene	**1300**		380	110	1	04/02/21 20:30	3/30/21	
Benzo(b)fluoranthene	**1600**		380	64	1	04/02/21 20:30	3/30/21	
Benzo(g,h,i)perylene	**730**		380	87	1	04/02/21 20:30	3/30/21	
Benzo(k)fluoranthene	**620**		380	62	1	04/02/21 20:30	3/30/21	
Chrysene	**1400**		380	56	1	04/02/21 20:30	3/30/21	
Dibenz(a,h)anthracene	**190**	**J**	380	83	1	04/02/21 20:30	3/30/21	
Fluoranthene	**2900**		380	95	1	04/02/21 20:30	3/30/21	
Fluorene	**83**	**J**	380	71	1	04/02/21 20:30	3/30/21	
Indeno(1,2,3-cd)pyrene	**770**		380	130	1	04/02/21 20:30	3/30/21	
Naphthalene	380	U	380	71	1	04/02/21 20:30	3/30/21	
Phenanthrene	**1200**		380	54	1	04/02/21 20:30	3/30/21	
Pyrene	**2400**		380	63	1	04/02/21 20:30	3/30/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	42	10 - 102	04/02/21 20:30	
Nitrobenzene-d5	38	10 - 95	04/02/21 20:30	
p-Terphenyl-d14	56	10 - 106	04/02/21 20:30	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:47
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-2 24	**Units:**	ug/Kg
Lab Code:	R2102621-016	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	370 U	370	61	1	04/02/21 20:58	3/30/21	
Acenaphthene	370 U	370	70	1	04/02/21 20:58	3/30/21	
Acenaphthylene	370 U	370	75	1	04/02/21 20:58	3/30/21	
Anthracene	**88 J**	370	62	1	04/02/21 20:58	3/30/21	
Benz(a)anthracene	**270 J**	370	55	1	04/02/21 20:58	3/30/21	
Benzo(a)pyrene	**310 J**	370	98	1	04/02/21 20:58	3/30/21	
Benzo(b)fluoranthene	**360 J**	370	62	1	04/02/21 20:58	3/30/21	
Benzo(g,h,i)perylene	**190 J**	370	85	1	04/02/21 20:58	3/30/21	
Benzo(k)fluoranthene	**140 J**	370	60	1	04/02/21 20:58	3/30/21	
Chrysene	**280 J**	370	54	1	04/02/21 20:58	3/30/21	
Dibenz(a,h)anthracene	370 U	370	80	1	04/02/21 20:58	3/30/21	
Fluoranthene	**590**	370	93	1	04/02/21 20:58	3/30/21	
Fluorene	370 U	370	69	1	04/02/21 20:58	3/30/21	
Indeno(1,2,3-cd)pyrene	**170 J**	370	120	1	04/02/21 20:58	3/30/21	
Naphthalene	370 U	370	69	1	04/02/21 20:58	3/30/21	
Phenanthrene	**340 J**	370	52	1	04/02/21 20:58	3/30/21	
Pyrene	**480**	370	61	1	04/02/21 20:58	3/30/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	39	10 - 102	04/02/21 20:58	
Nitrobenzene-d5	35	10 - 95	04/02/21 20:58	
p-Terphenyl-d14	58	10 - 106	04/02/21 20:58	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:50
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-1 0-2	**Units:**	ug/Kg
Lab Code:	R2102621-017	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	400	U	400	66	1	04/02/21 21:26	3/30/21	
Acenaphthene	**110**	**J**	400	76	1	04/02/21 21:26	3/30/21	
Acenaphthylene	400	U	400	81	1	04/02/21 21:26	3/30/21	
Anthracene	**270**	**J**	400	67	1	04/02/21 21:26	3/30/21	
Benz(a)anthracene	**1500**		400	59	1	04/02/21 21:26	3/30/21	
Benzo(a)pyrene	**2400**		400	110	1	04/02/21 21:26	3/30/21	
Benzo(b)fluoranthene	**3400**		400	67	1	04/02/21 21:26	3/30/21	
Benzo(g,h,i)perylene	**1600**		400	92	1	04/02/21 21:26	3/30/21	
Benzo(k)fluoranthene	**1200**		400	65	1	04/02/21 21:26	3/30/21	
Chrysene	**2500**		400	59	1	04/02/21 21:26	3/30/21	
Dibenz(a,h)anthracene	**300**	**J**	400	87	1	04/02/21 21:26	3/30/21	
Fluoranthene	**4800**		400	100	1	04/02/21 21:26	3/30/21	
Fluorene	**140**	**J**	400	75	1	04/02/21 21:26	3/30/21	
Indeno(1,2,3-cd)pyrene	**1600**		400	130	1	04/02/21 21:26	3/30/21	
Naphthalene	400	U	400	75	1	04/02/21 21:26	3/30/21	
Phenanthrene	**2300**		400	57	1	04/02/21 21:26	3/30/21	
Pyrene	**3800**		400	67	1	04/02/21 21:26	3/30/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	39	10 - 102	04/02/21 21:26	
Nitrobenzene-d5	36	10 - 95	04/02/21 21:26	
p-Terphenyl-d14	50	10 - 106	04/02/21 21:26	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:55
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-1 6	**Units:**	ug/Kg
Lab Code:	R2102621-018	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	**100**	**J**	380	63	1	04/05/21 13:36	3/30/21	
Acenaphthene	380	U	380	72	1	04/05/21 13:36	3/30/21	
Acenaphthylene	380	U	380	76	1	04/05/21 13:36	3/30/21	
Anthracene	**150**	**J**	380	63	1	04/05/21 13:36	3/30/21	
Benz(a)anthracene	**980**		380	56	1	04/05/21 13:36	3/30/21	
Benzo(a)pyrene	**1500**		380	100	1	04/05/21 13:36	3/30/21	
Benzo(b)fluoranthene	**2100**		380	63	1	04/05/21 13:36	3/30/21	
Benzo(g,h,i)perylene	**1300**		380	87	1	04/05/21 13:36	3/30/21	
Benzo(k)fluoranthene	**690**		380	61	1	04/05/21 13:36	3/30/21	
Chrysene	**1600**		380	56	1	04/05/21 13:36	3/30/21	
Dibenz(a,h)anthracene	**260**	**J**	380	82	1	04/05/21 13:36	3/30/21	
Fluoranthene	**2700**		380	95	1	04/05/21 13:36	3/30/21	
Fluorene	**74**	**J**	380	71	1	04/05/21 13:36	3/30/21	
Indeno(1,2,3-cd)pyrene	**1200**		380	130	1	04/05/21 13:36	3/30/21	
Naphthalene	380	U	380	71	1	04/05/21 13:36	3/30/21	
Phenanthrene	**1100**		380	54	1	04/05/21 13:36	3/30/21	
Pyrene	**2300**		380	63	1	04/05/21 13:36	3/30/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	48	10 - 102	04/05/21 13:36	
Nitrobenzene-d5	44	10 - 95	04/05/21 13:36	
p-Terphenyl-d14	63	10 - 106	04/05/21 13:36	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 14:00
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-1 12	**Units:**	ug/Kg
Lab Code:	R2102621-019	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	370	U	370	61	1	04/05/21 14:05	3/30/21	
Acenaphthene	370	U	370	70	1	04/05/21 14:05	3/30/21	
Acenaphthylene	370	U	370	74	1	04/05/21 14:05	3/30/21	
Anthracene	**150**	**J**	370	62	1	04/05/21 14:05	3/30/21	
Benz(a)anthracene	**810**		370	55	1	04/05/21 14:05	3/30/21	
Benzo(a)pyrene	**1200**		370	98	1	04/05/21 14:05	3/30/21	
Benzo(b)fluoranthene	**1700**		370	61	1	04/05/21 14:05	3/30/21	
Benzo(g,h,i)perylene	**1000**		370	84	1	04/05/21 14:05	3/30/21	
Benzo(k)fluoranthene	**560**		370	60	1	04/05/21 14:05	3/30/21	
Chrysene	**1300**		370	54	1	04/05/21 14:05	3/30/21	
Dibenz(a,h)anthracene	**190**	**J**	370	80	1	04/05/21 14:05	3/30/21	
Fluoranthene	**2300**		370	92	1	04/05/21 14:05	3/30/21	
Fluorene	370	U	370	69	1	04/05/21 14:05	3/30/21	
Indeno(1,2,3-cd)pyrene	**980**		370	120	1	04/05/21 14:05	3/30/21	
Naphthalene	370	U	370	69	1	04/05/21 14:05	3/30/21	
Phenanthrene	**1000**		370	52	1	04/05/21 14:05	3/30/21	
Pyrene	**1900**		370	61	1	04/05/21 14:05	3/30/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	47	10 - 102	04/05/21 14:05	
Nitrobenzene-d5	45	10 - 95	04/05/21 14:05	
p-Terphenyl-d14	59	10 - 106	04/05/21 14:05	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 14:05
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-1 20	**Units:**	ug/Kg
Lab Code:	R2102621-020	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	**110**	**J**	390	65	1	04/05/21 14:33	3/30/21	
Acenaphthene	**690**		390	74	1	04/05/21 14:33	3/30/21	
Acenaphthylene	390	U	390	79	1	04/05/21 14:33	3/30/21	
Anthracene	**1500**		390	66	1	04/05/21 14:33	3/30/21	
Benz(a)anthracene	**2600**		390	58	1	04/05/21 14:33	3/30/21	
Benzo(a)pyrene	**2900**		390	110	1	04/05/21 14:33	3/30/21	
Benzo(b)fluoranthene	**3100**		390	66	1	04/05/21 14:33	3/30/21	
Benzo(g,h,i)perylene	**1700**		390	90	1	04/05/21 14:33	3/30/21	
Benzo(k)fluoranthene	**1200**		390	63	1	04/05/21 14:33	3/30/21	
Chrysene	**2500**		390	58	1	04/05/21 14:33	3/30/21	
Dibenz(a,h)anthracene	**380**	**J**	390	85	1	04/05/21 14:33	3/30/21	
Fluoranthene	**6100**		390	98	1	04/05/21 14:33	3/30/21	
Fluorene	**730**		390	73	1	04/05/21 14:33	3/30/21	
Indeno(1,2,3-cd)pyrene	**1800**		390	130	1	04/05/21 14:33	3/30/21	
Naphthalene	**260**	**J**	390	74	1	04/05/21 14:33	3/30/21	
Phenanthrene	**5400**		390	56	1	04/05/21 14:33	3/30/21	
Pyrene	**5100**		390	65	1	04/05/21 14:33	3/30/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	35	10 - 102	04/05/21 14:33	
Nitrobenzene-d5	32	10 - 95	04/05/21 14:33	
p-Terphenyl-d14	45	10 - 106	04/05/21 14:33	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 14:10
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-1 0-2	**Units:**	ug/Kg
Lab Code:	R2102621-021	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	420	U	420	70	1	04/05/21 15:02	3/30/21	
Acenaphthene	420	U	420	80	1	04/05/21 15:02	3/30/21	
Acenaphthylene	420	U	420	86	1	04/05/21 15:02	3/30/21	
Anthracene	**210**	**J**	420	71	1	04/05/21 15:02	3/30/21	
Benz(a)anthracene	**760**		420	63	1	04/05/21 15:02	3/30/21	
Benzo(a)pyrene	**1000**		420	120	1	04/05/21 15:02	3/30/21	
Benzo(b)fluoranthene	**1100**		420	71	1	04/05/21 15:02	3/30/21	
Benzo(g,h,i)perylene	**660**		420	97	1	04/05/21 15:02	3/30/21	
Benzo(k)fluoranthene	**390**	**J**	420	69	1	04/05/21 15:02	3/30/21	
Chrysene	**840**		420	62	1	04/05/21 15:02	3/30/21	
Dibenz(a,h)anthracene	**160**	**J**	420	92	1	04/05/21 15:02	3/30/21	
Fluoranthene	**1500**		420	110	1	04/05/21 15:02	3/30/21	
Fluorene	420	U	420	79	1	04/05/21 15:02	3/30/21	
Indeno(1,2,3-cd)pyrene	**650**		420	140	1	04/05/21 15:02	3/30/21	
Naphthalene	420	U	420	79	1	04/05/21 15:02	3/30/21	
Phenanthrene	**800**		420	60	1	04/05/21 15:02	3/30/21	
Pyrene	**1200**		420	71	1	04/05/21 15:02	3/30/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	33	10 - 102	04/05/21 15:02	
Nitrobenzene-d5	29	10 - 95	04/05/21 15:02	
p-Terphenyl-d14	45	10 - 106	04/05/21 15:02	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 14:15
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-1 6	**Units:**	ug/Kg
Lab Code:	R2102621-022	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	400 U	400	66	1	03/29/21 17:44	3/26/21	
Acenaphthene	400 U	400	76	1	03/29/21 17:44	3/26/21	
Acenaphthylene	400 U	400	81	1	03/29/21 17:44	3/26/21	
Anthracene	**160 J**	400	67	1	03/29/21 17:44	3/26/21	
Benz(a)anthracene	**480**	400	60	1	03/29/21 17:44	3/26/21	
Benzo(a)pyrene	**590**	400	110	1	03/29/21 17:44	3/26/21	
Benzo(b)fluoranthene	**610**	400	67	1	03/29/21 17:44	3/26/21	
Benzo(g,h,i)perylene	**430**	400	92	1	03/29/21 17:44	3/26/21	
Benzo(k)fluoranthene	**220 J**	400	65	1	03/29/21 17:44	3/26/21	
Chrysene	**470**	400	59	1	03/29/21 17:44	3/26/21	
Dibenz(a,h)anthracene	**90 J**	400	87	1	03/29/21 17:44	3/26/21	
Fluoranthene	**920**	400	100	1	03/29/21 17:44	3/26/21	
Fluorene	400 U	400	75	1	03/29/21 17:44	3/26/21	
Indeno(1,2,3-cd)pyrene	**410**	400	130	1	03/29/21 17:44	3/26/21	
Naphthalene	400 U	400	75	1	03/29/21 17:44	3/26/21	
Phenanthrene	**600**	400	57	1	03/29/21 17:44	3/26/21	
Pyrene	**760**	400	67	1	03/29/21 17:44	3/26/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	50	10 - 102	03/29/21 17:44	
Nitrobenzene-d5	52	10 - 95	03/29/21 17:44	
p-Terphenyl-d14	84	10 - 106	03/29/21 17:44	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 14:20
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-1 12	**Units:**	ug/Kg
Lab Code:	R2102621-023	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	390 U	390	64	1	03/29/21 18:13	3/26/21	
Acenaphthene	**150 J**	390	73	1	03/29/21 18:13	3/26/21	
Acenaphthylene	390 U	390	78	1	03/29/21 18:13	3/26/21	
Anthracene	**370 J**	390	65	1	03/29/21 18:13	3/26/21	
Benz(a)anthracene	**1100**	390	58	1	03/29/21 18:13	3/26/21	
Benzo(a)pyrene	**1400**	390	110	1	03/29/21 18:13	3/26/21	
Benzo(b)fluoranthene	**1300**	390	65	1	03/29/21 18:13	3/26/21	
Benzo(g,h,i)perylene	**850**	390	89	1	03/29/21 18:13	3/26/21	
Benzo(k)fluoranthene	**490**	390	63	1	03/29/21 18:13	3/26/21	
Chrysene	**1100**	390	57	1	03/29/21 18:13	3/26/21	
Dibenz(a,h)anthracene	**190 J**	390	84	1	03/29/21 18:13	3/26/21	
Fluoranthene	**2400**	390	97	1	03/29/21 18:13	3/26/21	
Fluorene	**130 J**	390	73	1	03/29/21 18:13	3/26/21	
Indeno(1,2,3-cd)pyrene	**890**	390	130	1	03/29/21 18:13	3/26/21	
Naphthalene	390 U	390	73	1	03/29/21 18:13	3/26/21	
Phenanthrene	**1400**	390	55	1	03/29/21 18:13	3/26/21	
Pyrene	**1800**	390	65	1	03/29/21 18:13	3/26/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	53	10 - 102	03/29/21 18:13	
Nitrobenzene-d5	54	10 - 95	03/29/21 18:13	
p-Terphenyl-d14	80	10 - 106	03/29/21 18:13	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 14:30
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-1 24	**Units:**	ug/Kg
Lab Code:	R2102621-024	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	**180 DJ**	770	130	2	03/31/21 18:10	3/26/21	
Acenaphthene	**970 D**	770	150	2	03/31/21 18:10	3/26/21	
Acenaphthylene	770 U	770	160	2	03/31/21 18:10	3/26/21	
Anthracene	**3600 D**	770	130	2	03/31/21 18:10	3/26/21	
Benz(a)anthracene	**8200 D**	770	120	2	03/31/21 18:10	3/26/21	
Benzo(a)pyrene	**8500 D**	770	210	2	03/31/21 18:10	3/26/21	
Benzo(b)fluoranthene	**8300 D**	770	130	2	03/31/21 18:10	3/26/21	
Benzo(g,h,i)perylene	**4300 D**	770	180	2	03/31/21 18:10	3/26/21	
Benzo(k)fluoranthene	**3300 D**	770	130	2	03/31/21 18:10	3/26/21	
Chrysene	**7300 D**	770	120	2	03/31/21 18:10	3/26/21	
Dibenz(a,h)anthracene	**1300 D**	770	170	2	03/31/21 18:10	3/26/21	
Fluoranthene	**15000 D**	770	200	2	03/31/21 18:10	3/26/21	
Fluorene	**1300 D**	770	150	2	03/31/21 18:10	3/26/21	
Indeno(1,2,3-cd)pyrene	**5000 D**	770	250	2	03/31/21 18:10	3/26/21	
Naphthalene	**230 DJ**	770	150	2	03/31/21 18:10	3/26/21	
Phenanthrene	**10000 D**	770	110	2	03/31/21 18:10	3/26/21	
Pyrene	**11000 D**	770	130	2	03/31/21 18:10	3/26/21	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 14:30
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-1 24	**Units:**	ug/Kg
Lab Code:	R2102621-024	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	40	10 - 102	03/31/21 18:10	
Nitrobenzene-d5	41	10 - 95	03/31/21 18:10	
p-Terphenyl-d14	80	10 - 106	03/31/21 18:10	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 14:30
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-1 24	**Units:**	ug/Kg
Lab Code:	R2102621-024	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	**150**	**J**	390	64	1	03/29/21 18:41	3/26/21	
Acenaphthene	**820**		390	73	1	03/29/21 18:41	3/26/21	
Acenaphthylene	**94**	**J**	390	78	1	03/29/21 18:41	3/26/21	
Anthracene	**3100**		390	65	1	03/29/21 18:41	3/26/21	
Benz(a)anthracene	**6800**		390	58	1	03/29/21 18:41	3/26/21	
Benzo(a)pyrene	**7100**		390	110	1	03/29/21 18:41	3/26/21	
Benzo(b)fluoranthene	**7100**		390	65	1	03/29/21 18:41	3/26/21	
Benzo(g,h,i)perylene	**2900**		390	89	1	03/29/21 18:41	3/26/21	
Benzo(k)fluoranthene	**2600**		390	63	1	03/29/21 18:41	3/26/21	
Chrysene	**6000**		390	57	1	03/29/21 18:41	3/26/21	
Dibenz(a,h)anthracene	**940**		390	84	1	03/29/21 18:41	3/26/21	
Fluoranthene	**10000**	**E**	390	97	1	03/29/21 18:41	3/26/21	
Fluorene	**1100**		390	73	1	03/29/21 18:41	3/26/21	
Indeno(1,2,3-cd)pyrene	**3600**		390	130	1	03/29/21 18:41	3/26/21	
Naphthalene	**210**	**J**	390	73	1	03/29/21 18:41	3/26/21	
Phenanthrene	**7500**		390	55	1	03/29/21 18:41	3/26/21	
Pyrene	**8300**	**E**	390	65	1	03/29/21 18:41	3/26/21	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 14:30
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-1 24	**Units:**	ug/Kg
Lab Code:	R2102621-024	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	35	10 - 102	03/29/21 18:41	
Nitrobenzene-d5	36	10 - 95	03/29/21 18:41	
p-Terphenyl-d14	67	10 - 106	03/29/21 18:41	

General Chemistry

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Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:35
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-3 0-2	**Basis:**	As Received
Lab Code:	R2102621-001		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**67.8**	Percent	-	1	03/23/21 06:05	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:42
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-3 6	**Basis:**	As Received
Lab Code:	R2102621-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**82.5**	Percent	-	1	03/23/21 06:05	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:45
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-3 12	**Basis:**	As Received
Lab Code:	R2102621-003		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**89.7**	Percent	-	1	03/23/21 06:05	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:50
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-3 24	**Basis:**	As Received
Lab Code:	R2102621-004		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**82.6**	Percent	-	1	03/23/21 06:05	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:00
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-3 0-2	**Basis:**	As Received
Lab Code:	R2102621-005		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**82.3**	Percent	-	1	03/23/21 06:05	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:05
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-3 6	**Basis:**	As Received
Lab Code:	R2102621-006		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**71.6**	Percent	-	1	03/23/21 06:05	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:10
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-3 12	**Basis:**	As Received
Lab Code:	R2102621-007		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**75.6**	Percent	-	1	03/23/21 06:05	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:12
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-3 20	**Basis:**	As Received
Lab Code:	R2102621-008		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**70.8**	Percent	-	1	04/02/21 06:00	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:20
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-2 0-2	**Basis:**	As Received
Lab Code:	R2102621-009		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**55.6**	Percent	-	1	04/02/21 06:00	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:22
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-2 6	**Basis:**	As Received
Lab Code:	R2102621-010		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**69.4**	Percent	-	1	04/02/21 06:00	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:25
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-2 12	**Basis:**	As Received
Lab Code:	R2102621-011		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**78.4**	Percent	-	1	04/02/21 06:00	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:30
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-2 24	**Basis:**	As Received
Lab Code:	R2102621-012		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**80.7**	Percent	-	1	04/02/21 06:00	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:40
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-2 0-2	**Basis:**	As Received
Lab Code:	R2102621-013		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**83.2**	Percent	-	1	04/02/21 06:00	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:42
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-2 6	**Basis:**	As Received
Lab Code:	R2102621-014		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**87.1**	Percent	-	1	04/02/21 06:00	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:45
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-2 12	**Basis:**	As Received
Lab Code:	R2102621-015		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**86.4**	Percent	-	1	04/02/21 09:25	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:47
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-2 24	**Basis:**	As Received
Lab Code:	R2102621-016		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**86.4**	Percent	-	1	04/02/21 09:25	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:50
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-1 0-2	**Basis:**	As Received
Lab Code:	R2102621-017		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**82.2**	Percent	-	1	04/02/21 09:25	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:55
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-1 6	**Basis:**	As Received
Lab Code:	R2102621-018		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**87.9**	Percent	-	1	04/02/21 09:25	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 14:00
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-1 12	**Basis:**	As Received
Lab Code:	R2102621-019		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**88.9**	Percent	-	1	04/02/21 09:25	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 14:05
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-1 20	**Basis:**	As Received
Lab Code:	R2102621-020		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**82.0**	Percent	-	1	04/02/21 09:25	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 14:10
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-1 0-2	**Basis:**	As Received
Lab Code:	R2102621-021		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**78.8**	Percent	-	1	04/02/21 09:25	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 14:15
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-1 6	**Basis:**	As Received
Lab Code:	R2102621-022		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**85.4**	Percent	-	1	04/02/21 09:25	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 14:20
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-1 12	**Basis:**	As Received
Lab Code:	R2102621-023		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**86.2**	Percent	-	1	04/02/21 09:25	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 14:30
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-1 24	**Basis:**	As Received
Lab Code:	R2102621-024		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**86.9**	Percent	-	1	04/02/21 09:25	

QC Summary Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
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Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Leader Professional Services, Inc. **Service Request:** R2102621
Project: Former Bisonite/235.198A
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Extraction Method: EPA 3546

Sample Name	Lab Code	2-Fluorobiphenyl 10-102	Nitrobenzene-d5 10-95	p-Terphenyl-d14 10-106
SSB-3 0-2	R2102621-001	47	48	58
SSB-3 0-2 DL	R2102621-001	49	51	60
SSB-3 6	R2102621-002	49	53	60
SSB-3 6 DL	R2102621-002	52	57	66
SSB-3 12	R2102621-003	47	44	59
SSB-3 24	R2102621-004	45	41	57
SSA-3 0-2	R2102621-005	46	42	65
SSA-3 6	R2102621-006	41	39	61
SSA-3 12	R2102621-007	38	33	47
SSA-3 20	R2102621-008	52	51	74
SSA-2 0-2	R2102621-009	36	33	55
SSA-2 6	R2102621-010	39	33	55
SSA-2 12	R2102621-011	42	37	61
SSA-2 24	R2102621-012	36	32	51
SSB-2 0-2	R2102621-013	43	38	54
SSB-2 6	R2102621-014	49	43	65
SSB-2 12	R2102621-015	42	38	56
SSB-2 24	R2102621-016	39	35	58
SSA-1 0-2	R2102621-017	39	36	50
SSA-1 6	R2102621-018	48	44	63
SSA-1 12	R2102621-019	47	45	59
SSA-1 20	R2102621-020	35	32	45
SSB-1 0-2	R2102621-021	33	29	45
SSB-1 6	R2102621-022	50	52	84
SSB-1 12	R2102621-023	53	54	80
SSB-1 24	R2102621-024	35	36	67
SSB-1 24 DL	R2102621-024	40	41	80
Method Blank	RQ2103000-03	64	65	101
Method Blank	RQ2103049-01	56	54	130*
Method Blank	RQ2103107-01	73	77	132*
Method Blank	RQ2103266-03	70	67	93
Lab Control Sample	RQ2103000-04	60	57	84
Duplicate Lab Control Sample	RQ2103000-05	63	63	89
Lab Control Sample	RQ2103049-02	49	41	97
Duplicate Lab Control Sample	RQ2103049-03	62	57	100
Lab Control Sample	RQ2103107-02	70	71	110*
Duplicate Lab Control Sample	RQ2103107-03	71	71	110*

Client: Leader Professional Services, Inc. **Service Request:** R2102621

Project: Former Bisonite/235.198A

Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D

Extraction Method: EPA 3546

Sample Name	Lab Code	2-Fluorobiphenyl 10-102	Nitrobenzene-d5 10-95	p-Terphenyl-d14 10-106
Lab Control Sample	RQ2103266-04	75	67	86
Duplicate Lab Control Sample	RQ2103266-05	72	66	84
SSA-1 0-2 MS	RQ2103049-04	52	55	88
SSA-1 0-2 DMS	RQ2103049-05	47	50	77
SSB-3 12 MS	RQ2103266-01	54	49	72
SSB-3 12 DMS	RQ2103266-02	50	46	66

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21
Sample Matrix:	Soil	**Date Received:**	03/19/21
		Date Analyzed:	03/27/21
		Date Extracted:	03/25/21

Duplicate Matrix Spike Summary
Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Sample Name:	SSA-1 0-2	**Units:**	ug/Kg
Lab Code:	R2102621-017	**Basis:**	Dry
Analysis Method:	8270D		
Prep Method:	EPA 3546		

		Matrix Spike			Duplicate Matrix Spike					
		RQ2103049-04			RQ2103049-05					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
2-Methylnaphthalene	420 U	2060	4240	49 *	1810	3960	46 *	50-86	13	30
Acenaphthene	110 J	2080	4240	47 *	2000	3960	48 *	52-91	4	30
Acenaphthylene	420 U	2300	4240	54	2000	3960	50 *	53-97	14	30
Anthracene	270 J	2730	4240	58 *	2540	3960	57 *	63-98	7	30
Benz(a)anthracene	1500	4110	4240	61	4140	3960	67	59-99	<1	30
Benzo(a)pyrene	2400	5400	4240	71	5260	3960	73	71-129	3	30
Benzo(b)fluoranthene	3400	6440	4240	72	6450	3960	78	59-101	<1	30
Benzo(g,h,i)perylene	1600	4440	4240	66 *	4170	3960	64 *	67-113	6	30
Benzo(k)fluoranthene	1200	4070	4240	68	3980	3960	71	64-107	2	30
Chrysene	2500	5090	4240	61 *	5170	3960	67	62-103	2	30
Dibenz(a,h)anthracene	300 J	2610	4240	54 *	2240	3960	49 *	58-119	15	30
Fluoranthene	4800	7110	4240	55 *	7470	3960	68	59-104	5	30
Fluorene	140 J	2200	4240	49 *	2060	3960	49 *	54-93	7	30
Indeno(1,2,3-cd)pyrene	1600	4280	4240	64	4000	3960	61 *	64-114	7	30
Naphthalene	420 U	2010	4240	47 *	1790	3960	45 *	48-85	11	30
Phenanthrene	2300	3820	4240	36 *	4250	3960	50 *	60-95	11	30
Pyrene	3800	6230	4240	57 *	6720	3960	73	65-107	8	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21
Sample Matrix:	Soil	**Date Received:**	03/19/21
		Date Analyzed:	04/2/21
		Date Extracted:	03/30/21

Duplicate Matrix Spike Summary
Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Sample Name:	SSB-3 12	**Units:**	ug/Kg
Lab Code:	R2102621-003	**Basis:**	Dry
Analysis Method:	8270D		
Prep Method:	EPA 3546		

		Matrix Spike			Duplicate Matrix Spike					
		RQ2103266-01			RQ2103266-02					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
2-Methylnaphthalene	1100 U	1970	3590	55	1910	3770	51	50-86	3	30
Acenaphthene	510 J	2140	3590	45 *	2390	3770	50 *	52-91	11	30
Acenaphthylene	1100 U	2230	3590	62	2150	3770	57	53-97	4	30
Anthracene	1400	3160	3590	48 *	3610	3770	58 *	63-98	13	30
Benz(a)anthracene	7100	7890	3590	22 *	7830	3770	19 *	59-99	<1	30
Benzo(a)pyrene	10000	11300	3590	35 *	10900	3770	23 *	71-129	4	30
Benzo(b)fluoranthene	13000	13300	3590	10 *	12600	3770	-12 *	59-101	6	30
Benzo(g,h,i)perylene	7800	9520	3590	46 *	8860	3770	27 *	67-113	7	30
Benzo(k)fluoranthene	4800	6500	3590	46 *	6510	3770	44 *	64-107	<1	30
Chrysene	10000	11000	3590	24 *	10400	3770	8 *	62-103	5	30
Dibenz(a,h)anthracene	1500	3750	3590	61	3540	3770	53 *	58-119	6	30
Fluoranthene	18000	18100	3590	0 #	17800	3770	-7 #	59-104	2	30
Fluorene	580 J	2480	3590	53 *	2760	3770	58	54-93	11	30
Indeno(1,2,3-cd)pyrene	7500	8570	3590	28 *	8090	3770	14 *	64-114	6	30
Naphthalene	1100 U	1860	3590	52	1830	3770	49	48-85	2	30
Phenanthrene	8000	8080	3590	2 *	9760	3770	46 *	60-95	19	30
Pyrene	15000	15000	3590	0 #	14600	3770	-11 *	65-107	3	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ2103000-03	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	330 U	330	55	1	03/25/21 18:17	3/24/21	
Acenaphthene	330 U	330	63	1	03/25/21 18:17	3/24/21	
Acenaphthylene	330 U	330	67	1	03/25/21 18:17	3/24/21	
Anthracene	330 U	330	55	1	03/25/21 18:17	3/24/21	
Benz(a)anthracene	330 U	330	49	1	03/25/21 18:17	3/24/21	
Benzo(a)pyrene	330 U	330	88	1	03/25/21 18:17	3/24/21	
Benzo(b)fluoranthene	330 U	330	55	1	03/25/21 18:17	3/24/21	
Benzo(g,h,i)perylene	330 U	330	76	1	03/25/21 18:17	3/24/21	
Benzo(k)fluoranthene	330 U	330	54	1	03/25/21 18:17	3/24/21	
Chrysene	330 U	330	49	1	03/25/21 18:17	3/24/21	
Dibenz(a,h)anthracene	330 U	330	72	1	03/25/21 18:17	3/24/21	
Fluoranthene	330 U	330	83	1	03/25/21 18:17	3/24/21	
Fluorene	330 U	330	62	1	03/25/21 18:17	3/24/21	
Indeno(1,2,3-cd)pyrene	330 U	330	110	1	03/25/21 18:17	3/24/21	
Naphthalene	330 U	330	62	1	03/25/21 18:17	3/24/21	
Phenanthrene	330 U	330	47	1	03/25/21 18:17	3/24/21	
Pyrene	330 U	330	55	1	03/25/21 18:17	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	64	10 - 102	03/25/21 18:17	
Nitrobenzene-d5	65	10 - 95	03/25/21 18:17	
p-Terphenyl-d14	101	10 - 106	03/25/21 18:17	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ2103049-01	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	350 U	350	58	1	03/26/21 21:21	3/25/21	
Acenaphthene	350 U	350	66	1	03/26/21 21:21	3/25/21	
Acenaphthylene	350 U	350	70	1	03/26/21 21:21	3/25/21	
Anthracene	350 U	350	58	1	03/26/21 21:21	3/25/21	
Benz(a)anthracene	350 U	350	52	1	03/26/21 21:21	3/25/21	
Benzo(a)pyrene	350 U	350	92	1	03/26/21 21:21	3/25/21	
Benzo(b)fluoranthene	350 U	350	58	1	03/26/21 21:21	3/25/21	
Benzo(g,h,i)perylene	350 U	350	80	1	03/26/21 21:21	3/25/21	
Benzo(k)fluoranthene	350 U	350	56	1	03/26/21 21:21	3/25/21	
Chrysene	350 U	350	51	1	03/26/21 21:21	3/25/21	
Dibenz(a,h)anthracene	350 U	350	76	1	03/26/21 21:21	3/25/21	
Fluoranthene	350 U	350	87	1	03/26/21 21:21	3/25/21	
Fluorene	350 U	350	65	1	03/26/21 21:21	3/25/21	
Indeno(1,2,3-cd)pyrene	350 U	350	120	1	03/26/21 21:21	3/25/21	
Naphthalene	350 U	350	65	1	03/26/21 21:21	3/25/21	
Phenanthrene	350 U	350	49	1	03/26/21 21:21	3/25/21	
Pyrene	350 U	350	58	1	03/26/21 21:21	3/25/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	56	10 - 102	03/26/21 21:21	
Nitrobenzene-d5	54	10 - 95	03/26/21 21:21	
p-Terphenyl-d14	130 *	10 - 106	03/26/21 21:21	*

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ2103107-01	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	330 U	330	55	1	03/29/21 16:18	3/26/21	
Acenaphthene	330 U	330	63	1	03/29/21 16:18	3/26/21	
Acenaphthylene	330 U	330	67	1	03/29/21 16:18	3/26/21	
Anthracene	330 U	330	55	1	03/29/21 16:18	3/26/21	
Benz(a)anthracene	330 U	330	49	1	03/29/21 16:18	3/26/21	
Benzo(a)pyrene	330 U	330	88	1	03/29/21 16:18	3/26/21	
Benzo(b)fluoranthene	330 U	330	55	1	03/29/21 16:18	3/26/21	
Benzo(g,h,i)perylene	330 U	330	76	1	03/29/21 16:18	3/26/21	
Benzo(k)fluoranthene	330 U	330	54	1	03/29/21 16:18	3/26/21	
Chrysene	330 U	330	49	1	03/29/21 16:18	3/26/21	
Dibenz(a,h)anthracene	330 U	330	72	1	03/29/21 16:18	3/26/21	
Fluoranthene	330 U	330	83	1	03/29/21 16:18	3/26/21	
Fluorene	330 U	330	62	1	03/29/21 16:18	3/26/21	
Indeno(1,2,3-cd)pyrene	330 U	330	110	1	03/29/21 16:18	3/26/21	
Naphthalene	330 U	330	62	1	03/29/21 16:18	3/26/21	
Phenanthrene	330 U	330	47	1	03/29/21 16:18	3/26/21	
Pyrene	330 U	330	55	1	03/29/21 16:18	3/26/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	73	10 - 102	03/29/21 16:18	
Nitrobenzene-d5	77	10 - 95	03/29/21 16:18	
p-Terphenyl-d14	132 *	10 - 106	03/29/21 16:18	*

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ2103266-03	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	330 U	330	55	1	04/01/21 20:03	3/30/21	
Acenaphthene	330 U	330	63	1	04/01/21 20:03	3/30/21	
Acenaphthylene	330 U	330	67	1	04/01/21 20:03	3/30/21	
Anthracene	330 U	330	56	1	04/01/21 20:03	3/30/21	
Benz(a)anthracene	330 U	330	50	1	04/01/21 20:03	3/30/21	
Benzo(a)pyrene	330 U	330	88	1	04/01/21 20:03	3/30/21	
Benzo(b)fluoranthene	330 U	330	56	1	04/01/21 20:03	3/30/21	
Benzo(g,h,i)perylene	330 U	330	76	1	04/01/21 20:03	3/30/21	
Benzo(k)fluoranthene	330 U	330	54	1	04/01/21 20:03	3/30/21	
Chrysene	330 U	330	49	1	04/01/21 20:03	3/30/21	
Dibenz(a,h)anthracene	330 U	330	72	1	04/01/21 20:03	3/30/21	
Fluoranthene	330 U	330	83	1	04/01/21 20:03	3/30/21	
Fluorene	330 U	330	62	1	04/01/21 20:03	3/30/21	
Indeno(1,2,3-cd)pyrene	330 U	330	110	1	04/01/21 20:03	3/30/21	
Naphthalene	330 U	330	62	1	04/01/21 20:03	3/30/21	
Phenanthrene	330 U	330	47	1	04/01/21 20:03	3/30/21	
Pyrene	330 U	330	55	1	04/01/21 20:03	3/30/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	70	10 - 102	04/01/21 20:03	
Nitrobenzene-d5	67	10 - 95	04/01/21 20:03	
p-Terphenyl-d14	93	10 - 106	04/01/21 20:03	

Client: Leader Professional Services, Inc. **Service Request:** R2102621
Project: Former Bisonite/235.198A **Date Analyzed:** 03/25/21
Sample Matrix: Soil

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Units:ug/Kg
Basis: Dry

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2103000-04			RQ2103000-05					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
2-Methylnaphthalene	8270D	1790	3290	54	1940	3280	59	50-86	8	30
Acenaphthene	8270D	2010	3290	61	2110	3280	64	52-91	5	30
Acenaphthylene	8270D	2210	3290	67	2320	3280	71	53-97	5	30
Anthracene	8270D	2590	3290	79	2650	3280	81	63-98	2	30
Benz(a)anthracene	8270D	2630	3290	80	2710	3280	82	59-99	3	30
Benzo(a)pyrene	8270D	3400	3290	103	3570	3280	109	71-129	5	30
Benzo(b)fluoranthene	8270D	2560	3290	78	2650	3280	81	59-101	3	30
Benzo(g,h,i)perylene	8270D	3280	3290	100	3430	3280	105	67-113	5	30
Benzo(k)fluoranthene	8270D	2760	3290	84	2910	3280	89	64-107	5	30
Chrysene	8270D	2680	3290	81	2770	3280	84	62-103	3	30
Dibenz(a,h)anthracene	8270D	2850	3290	87	2980	3280	91	58-119	4	30
Fluoranthene	8270D	2770	3290	84	2800	3280	85	59-104	1	30
Fluorene	8270D	2240	3290	68	2280	3280	70	54-93	2	30
Indeno(1,2,3-cd)pyrene	8270D	2930	3290	89	3050	3280	93	64-114	4	30
Naphthalene	8270D	1710	3290	52	1880	3280	57	48-85	9	30
Phenanthrene	8270D	2440	3290	74	2490	3280	76	60-95	2	30
Pyrene	8270D	2670	3290	81	2730	3280	83	65-107	2	30

Client: Leader Professional Services, Inc. **Service Request:** R2102621
Project: Former Bisonite/235.198A **Date Analyzed:** 03/26/21
Sample Matrix: Soil

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Units:ug/Kg
Basis: Dry

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2103049-02			RQ2103049-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
2-Methylnaphthalene	8270D	1390	3290	42 *	1900	3440	55	50-86	31*	30
Acenaphthene	8270D	1610	3290	49 *	2030	3440	59	52-91	23	30
Acenaphthylene	8270D	1750	3290	53	2250	3440	65	53-97	25	30
Anthracene	8270D	2260	3290	69	2600	3440	76	63-98	14	30
Benz(a)anthracene	8270D	2350	3290	72	2570	3440	75	59-99	9	30
Benzo(a)pyrene	8270D	2860	3290	87	3190	3440	93	71-129	11	30
Benzo(b)fluoranthene	8270D	2330	3290	71	2570	3440	75	59-101	10	30
Benzo(g,h,i)perylene	8270D	2760	3290	84	3030	3440	88	67-113	9	30
Benzo(k)fluoranthene	8270D	2620	3290	80	2930	3440	85	64-107	11	30
Chrysene	8270D	2440	3290	74	2690	3440	78	62-103	9	30
Dibenz(a,h)anthracene	8270D	2560	3290	78	2850	3440	83	58-119	11	30
Fluoranthene	8270D	2550	3290	77	2770	3440	80	59-104	8	30
Fluorene	8270D	1780	3290	54	2160	3440	63	54-93	20	30
Indeno(1,2,3-cd)pyrene	8270D	2510	3290	76	2760	3440	80	64-114	10	30
Naphthalene	8270D	1280	3290	39 *	1880	3440	55	48-85	38*	30
Phenanthrene	8270D	2070	3290	63	2410	3440	70	60-95	15	30
Pyrene	8270D	2300	3290	70	2640	3440	77	65-107	14	30

Client: Leader Professional Services, Inc. **Service Request:** R2102621
Project: Former Bisonite/235.198A **Date Analyzed:** 03/29/21
Sample Matrix: Soil

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Units:ug/Kg
Basis: Dry

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2103107-02			RQ2103107-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
2-Methylnaphthalene	8270D	2160	3400	63	2100	3330	63	50-86	3	30
Acenaphthene	8270D	2240	3400	66	2200	3330	66	52-91	2	30
Acenaphthylene	8270D	2500	3400	74	2460	3330	74	53-97	1	30
Anthracene	8270D	2600	3400	76	2530	3330	76	63-98	2	30
Benz(a)anthracene	8270D	2620	3400	77	2540	3330	76	59-99	3	30
Benzo(a)pyrene	8270D	3430	3400	101	3300	3330	99	71-129	4	30
Benzo(b)fluoranthene	8270D	2620	3400	77	2510	3330	76	59-101	4	30
Benzo(g,h,i)perylene	8270D	3280	3400	97	3280	3330	99	67-113	<1	30
Benzo(k)fluoranthene	8270D	2720	3400	80	2650	3330	80	64-107	3	30
Chrysene	8270D	2680	3400	79	2630	3330	79	62-103	2	30
Dibenz(a,h)anthracene	8270D	3010	3400	89	2950	3330	89	58-119	2	30
Fluoranthene	8270D	2660	3400	78	2600	3330	78	59-104	2	30
Fluorene	8270D	2390	3400	70	2350	3330	71	54-93	2	30
Indeno(1,2,3-cd)pyrene	8270D	3010	3400	89	2980	3330	90	64-114	1	30
Naphthalene	8270D	2120	3400	62	2030	3330	61	48-85	4	30
Phenanthrene	8270D	2440	3400	72	2380	3330	72	60-95	2	30
Pyrene	8270D	2690	3400	79	2620	3330	79	65-107	2	30

Client: Leader Professional Services, Inc. **Service Request:** R2102621
Project: Former Bisonite/235.198A **Date Analyzed:** 04/01/21
Sample Matrix: Soil

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Units:ug/Kg
Basis: Dry

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2103266-04			RQ2103266-05					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
2-Methylnaphthalene	8270D	2350	3400	69	2230	3220	69	50-86	5	30
Acenaphthene	8270D	2460	3400	72	2320	3220	72	52-91	6	30
Acenaphthylene	8270D	2650	3400	78	2500	3220	78	53-97	6	30
Anthracene	8270D	2750	3400	81	2600	3220	81	63-98	6	30
Benz(a)anthracene	8270D	2660	3400	78	2560	3220	79	59-99	4	30
Benzo(a)pyrene	8270D	3290	3400	97	3080	3220	96	71-129	7	30
Benzo(b)fluoranthene	8270D	2670	3400	78	2500	3220	78	59-101	7	30
Benzo(g,h,i)perylene	8270D	3010	3400	89	2820	3220	88	67-113	7	30
Benzo(k)fluoranthene	8270D	2880	3400	85	2720	3220	85	64-107	6	30
Chrysene	8270D	2740	3400	81	2590	3220	80	62-103	6	30
Dibenz(a,h)anthracene	8270D	2800	3400	82	2660	3220	83	58-119	5	30
Fluoranthene	8270D	2700	3400	79	2560	3220	80	59-104	5	30
Fluorene	8270D	2550	3400	75	2420	3220	75	54-93	5	30
Indeno(1,2,3-cd)pyrene	8270D	2620	3400	77	2530	3220	78	64-114	4	30
Naphthalene	8270D	2310	3400	68	2190	3220	68	48-85	5	30
Phenanthrene	8270D	2640	3400	78	2480	3220	77	60-95	6	30
Pyrene	8270D	2830	3400	83	2680	3220	83	65-107	5	30

General Chemistry

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
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ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project	Former Bisonite/235.198A	**Date Collected:**	03/18/21
Sample Matrix:	Soil	**Date Received:**	03/19/21
		Date Analyzed:	03/23/21

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	SSB-3 0-2	**Units:**	Percent
Lab Code:	R2102621-001	**Basis:**	As Received

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample R2102621-001DUP Result	Average	RPD	RPD Limit
Total Solids	ALS SOP	-	67.8	74.6	71.2	9	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project	Former Bisonite/235.198A	**Date Collected:**	03/18/21
Sample Matrix:	Soil	**Date Received:**	03/19/21
		Date Analyzed:	04/02/21

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	SSA-2 6	**Units:**	Percent
Lab Code:	R2102621-010	**Basis:**	As Received

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample R2102621-010DUP Result	Average	RPD	RPD Limit
Total Solids	ALS SOP	-	69.4	66.3	67.8	5	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project	Former Bisonite/235.198A	**Date Collected:**	03/18/21
Sample Matrix:	Soil	**Date Received:**	03/19/21
		Date Analyzed:	04/02/21

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	SSB-2 12	**Units:**	Percent
Lab Code:	R2102621-015	**Basis:**	As Received

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample R2102621-015DUP Result	Average	RPD	RPD Limit
Total Solids	ALS SOP	-	86.4	86.9	86.7	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

April 02, 2021 Service Request No:R2102620

Frank Thomas
Leader Professional Services, Inc.
271 Marsh Road
Suite 2
Pittsford, NY 14534

Laboratory Results for: Former Bisonite

Dear Frank,

Enclosed are the results of the sample(s) submitted to our laboratory March 19, 2021
For your reference, these analyses have been assigned our service request number **R2102620.**

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Janice Jaeger
Project Manager

CC: Peter von
Schondorf

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Narrative Documents

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Client: Leader Professional Services, Inc.
Project: Former Bisonite
Sample Matrix: Soil

Service Request: R2102620
Date Received: 03/19/2021

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

Seventeen soil samples were received for analysis at ALS Environmental on 03/19/2021. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Semivolatiles by GC/MS:

Method 8270D, 03/26/2021: The matrix spike recovery of one or more of the spiked analytes was outside of control limits because of sample matrix. The LCS/LCSD are within limits for all analytes. No further corrective action was required.

General Chemistry:

No significant anomalies were noted with this analysis.

Approved by _____ Date 04/02/2021

SAMPLE DETECTION SUMMARY

CLIENT ID: SSA-6 0-2			Lab ID: R2102620-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	80.7				Percent	ALS SOP
Acenaphthene	920	J	790	4200	ug/Kg	8270D
Anthracene	4100	J	700	4200	ug/Kg	8270D
Benz(a)anthracene	30000		620	4200	ug/Kg	8270D
Benzo(a)pyrene	48000		1200	4200	ug/Kg	8270D
Benzo(b)fluoranthene	59000		700	4200	ug/Kg	8270D
Benzo(g,h,i)perylene	38000		960	4200	ug/Kg	8270D
Benzo(k)fluoranthene	21000		680	4200	ug/Kg	8270D
Chrysene	43000		620	4200	ug/Kg	8270D
Dibenz(a,h)anthracene	6800		910	4200	ug/Kg	8270D
Fluoranthene	81000		1100	4200	ug/Kg	8270D
Fluorene	1200	J	780	4200	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	38000		1400	4200	ug/Kg	8270D
Phenanthrene	30000		590	4200	ug/Kg	8270D
Pyrene	66000		700	4200	ug/Kg	8270D

CLIENT ID: SSA-6 6			Lab ID: R2102620-002			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	77.2				Percent	ALS SOP
Anthracene	240	J	70	420	ug/Kg	8270D
Benz(a)anthracene	2000		62	420	ug/Kg	8270D
Benzo(a)pyrene	3500		120	420	ug/Kg	8270D
Benzo(b)fluoranthene	4000		70	420	ug/Kg	8270D
Benzo(g,h,i)perylene	3000		96	420	ug/Kg	8270D
Benzo(k)fluoranthene	1400		67	420	ug/Kg	8270D
Chrysene	3100		61	420	ug/Kg	8270D
Dibenz(a,h)anthracene	480		90	420	ug/Kg	8270D
Fluoranthene	5500		110	420	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	2900		140	420	ug/Kg	8270D
Phenanthrene	1800		59	420	ug/Kg	8270D
Pyrene	4200		69	420	ug/Kg	8270D

CLIENT ID: SSA-6 12			Lab ID: R2102620-003			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	79.2				Percent	ALS SOP

CLIENT ID: SSA-6 23			Lab ID: R2102620-004			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	79.7				Percent	ALS SOP
Anthracene	350	J	68	400	ug/Kg	8270D
Benz(a)anthracene	2800		60	400	ug/Kg	8270D
Benzo(a)pyrene	4800		110	400	ug/Kg	8270D
Benzo(b)fluoranthene	5800		67	400	ug/Kg	8270D

SAMPLE DETECTION SUMMARY

CLIENT ID: SSA-6 23			Lab ID: R2102620-004			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Benzo(g,h,i)perylene	4300		93	400	ug/Kg	8270D
Benzo(k)fluoranthene	2000		65	400	ug/Kg	8270D
Chrysene	4300		60	400	ug/Kg	8270D
Dibenz(a,h)anthracene	690		88	400	ug/Kg	8270D
Fluoranthene	7200		110	400	ug/Kg	8270D
Fluorene	95	J	76	400	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	4100		130	400	ug/Kg	8270D
Phenanthrene	2300		57	400	ug/Kg	8270D
Pyrene	5600		67	400	ug/Kg	8270D

CLIENT ID: SSB-4 0-2			Lab ID: R2102620-005			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	75.3				Percent	ALS SOP
2-Methylnaphthalene	630	J	150	880	ug/Kg	8270D
Acenaphthene	840	J	170	880	ug/Kg	8270D
Acenaphthylene	300	J	180	880	ug/Kg	8270D
Anthracene	2500		150	880	ug/Kg	8270D
Benz(a)anthracene	15000		140	880	ug/Kg	8270D
Benzo(a)pyrene	24000	E	240	880	ug/Kg	8270D
Benzo(b)fluoranthene	31000	E	150	880	ug/Kg	8270D
Benzo(g,h,i)perylene	15000		210	880	ug/Kg	8270D
Benzo(k)fluoranthene	9900		150	880	ug/Kg	8270D
Chrysene	21000	E	130	880	ug/Kg	8270D
Dibenz(a,h)anthracene	3000		200	880	ug/Kg	8270D
Fluoranthene	30000	E	230	880	ug/Kg	8270D
Fluorene	950		170	880	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	16000		290	880	ug/Kg	8270D
Naphthalene	390	J	170	880	ug/Kg	8270D
Phenanthrene	15000		130	880	ug/Kg	8270D
Pyrene	26000	E	150	880	ug/Kg	8270D
2-Methylnaphthalene	690	DJ	370	2200	ug/Kg	8270D
Acenaphthene	910	DJ	420	2200	ug/Kg	8270D
Anthracene	2600	D	370	2200	ug/Kg	8270D
Benz(a)anthracene	16000	D	330	2200	ug/Kg	8270D
Benzo(a)pyrene	26000	D	590	2200	ug/Kg	8270D
Benzo(b)fluoranthene	32000	D	370	2200	ug/Kg	8270D
Benzo(g,h,i)perylene	18000	D	510	2200	ug/Kg	8270D
Benzo(k)fluoranthene	11000	D	360	2200	ug/Kg	8270D
Chrysene	23000	D	330	2200	ug/Kg	8270D
Dibenz(a,h)anthracene	3600	D	480	2200	ug/Kg	8270D
Fluoranthene	42000	D	560	2200	ug/Kg	8270D
Fluorene	1000	DJ	420	2200	ug/Kg	8270D

SAMPLE DETECTION SUMMARY

CLIENT ID: SSB-4 0-2			Lab ID: R2102620-005			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Indeno(1,2,3-cd)pyrene	19000	D	710	2200	ug/Kg	8270D
Phenanthrene	18000	D	320	2200	ug/Kg	8270D
Pyrene	35000	D	370	2200	ug/Kg	8270D

CLIENT ID: SSB-4 5			Lab ID: R2102620-006			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	73.3				Percent	ALS SOP
2-Methylnaphthalene	220	J	150	900	ug/Kg	8270D
Acenaphthene	1800		170	900	ug/Kg	8270D
Acenaphthylene	280	J	190	900	ug/Kg	8270D
Anthracene	4500		160	900	ug/Kg	8270D
Benz(a)anthracene	16000		140	900	ug/Kg	8270D
Benzo(a)pyrene	24000	E	240	900	ug/Kg	8270D
Benzo(b)fluoranthene	30000	E	150	900	ug/Kg	8270D
Benzo(g,h,i)perylene	14000		210	900	ug/Kg	8270D
Benzo(k)fluoranthene	10000		150	900	ug/Kg	8270D
Chrysene	21000	E	140	900	ug/Kg	8270D
Dibenz(a,h)anthracene	2900		200	900	ug/Kg	8270D
Fluoranthene	31000	E	230	900	ug/Kg	8270D
Fluorene	1900		170	900	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	15000		290	900	ug/Kg	8270D
Phenanthrene	19000	E	130	900	ug/Kg	8270D
Pyrene	27000	E	150	900	ug/Kg	8270D
Acenaphthene	2100	DJ	850	4500	ug/Kg	8270D
Anthracene	5400	D	760	4500	ug/Kg	8270D
Benz(a)anthracene	20000	D	670	4500	ug/Kg	8270D
Benzo(a)pyrene	29000	D	1200	4500	ug/Kg	8270D
Benzo(b)fluoranthene	34000	D	750	4500	ug/Kg	8270D
Benzo(g,h,i)perylene	21000	D	1100	4500	ug/Kg	8270D
Benzo(k)fluoranthene	12000	D	730	4500	ug/Kg	8270D
Chrysene	26000	D	670	4500	ug/Kg	8270D
Dibenz(a,h)anthracene	3800	DJ	980	4500	ug/Kg	8270D
Fluoranthene	57000	D	1200	4500	ug/Kg	8270D
Fluorene	2300	DJ	850	4500	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	21000	D	1500	4500	ug/Kg	8270D
Phenanthrene	28000	D	640	4500	ug/Kg	8270D
Pyrene	42000	D	750	4500	ug/Kg	8270D

CLIENT ID: SSB-4 10			Lab ID: R2102620-007			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	78.3				Percent	ALS SOP
Acenaphthene	590	J	160	840	ug/Kg	8270D

SAMPLE DETECTION SUMMARY

CLIENT ID: SSB-4 10			Lab ID: R2102620-007			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Acenaphthylene	280	J	170	840	ug/Kg	8270D
Anthracene	2100		140	840	ug/Kg	8270D
Benz(a)anthracene	13000		130	840	ug/Kg	8270D
Benzo(a)pyrene	21000	E	230	840	ug/Kg	8270D
Benzo(b)fluoranthene	27000	E	140	840	ug/Kg	8270D
Benzo(g,h,i)perylene	14000		200	840	ug/Kg	8270D
Benzo(k)fluoranthene	8700		140	840	ug/Kg	8270D
Chrysene	18000	E	130	840	ug/Kg	8270D
Dibenz(a,h)anthracene	2700		190	840	ug/Kg	8270D
Fluoranthene	26000	E	210	840	ug/Kg	8270D
Fluorene	710	J	160	840	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	14000		270	840	ug/Kg	8270D
Phenanthrene	12000		120	840	ug/Kg	8270D
Pyrene	22000	E	140	840	ug/Kg	8270D
Acenaphthene	660	DJ	400	2100	ug/Kg	8270D
Anthracene	2200	D	350	2100	ug/Kg	8270D
Benz(a)anthracene	14000	D	310	2100	ug/Kg	8270D
Benzo(a)pyrene	23000	D	560	2100	ug/Kg	8270D
Benzo(b)fluoranthene	29000	D	350	2100	ug/Kg	8270D
Benzo(g,h,i)perylene	15000	D	480	2100	ug/Kg	8270D
Benzo(k)fluoranthene	11000	D	340	2100	ug/Kg	8270D
Chrysene	20000	D	310	2100	ug/Kg	8270D
Dibenz(a,h)anthracene	3000	D	460	2100	ug/Kg	8270D
Fluoranthene	37000	D	530	2100	ug/Kg	8270D
Fluorene	790	DJ	390	2100	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	16000	D	680	2100	ug/Kg	8270D
Phenanthrene	14000	D	300	2100	ug/Kg	8270D
Pyrene	30000	D	350	2100	ug/Kg	8270D

CLIENT ID: SSB-4 18			Lab ID: R2102620-008			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	88.8				Percent	ALS SOP
Benz(a)anthracene	87	J	55	370	ug/Kg	8270D
Benzo(a)pyrene	120	J	99	370	ug/Kg	8270D
Benzo(b)fluoranthene	150	J	62	370	ug/Kg	8270D
Benzo(g,h,i)perylene	110	J	86	370	ug/Kg	8270D
Chrysene	120	J	55	370	ug/Kg	8270D
Fluoranthene	240	J	93	370	ug/Kg	8270D
Phenanthrene	110	J	53	370	ug/Kg	8270D
Pyrene	180	J	62	370	ug/Kg	8270D

SAMPLE DETECTION SUMMARY

CLIENT ID: SSA-5 21 DUP	Lab ID: R2102620-009					
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	83.4				Percent	ALS SOP

CLIENT ID: SSA-5 0.2	Lab ID: R2102620-010					
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	88.4				Percent	ALS SOP
Anthracene	210	J	63	370	ug/Kg	8270D
Benz(a)anthracene	1800		56	370	ug/Kg	8270D
Benzo(a)pyrene	3300		99	370	ug/Kg	8270D
Benzo(b)fluoranthene	4100		63	370	ug/Kg	8270D
Benzo(g,h,i)perylene	2300		86	370	ug/Kg	8270D
Benzo(k)fluoranthene	1400		61	370	ug/Kg	8270D
Chrysene	2900		55	370	ug/Kg	8270D
Dibenz(a,h)anthracene	440		81	370	ug/Kg	8270D
Fluoranthene	5000		94	370	ug/Kg	8270D
Fluorene	80	J	70	370	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	2300		120	370	ug/Kg	8270D
Phenanthrene	1600		53	370	ug/Kg	8270D
Pyrene	3900		62	370	ug/Kg	8270D

CLIENT ID: SSA-5 6	Lab ID: R2102620-011					
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	78.1				Percent	ALS SOP
Benz(a)anthracene	280	J	62	420	ug/Kg	8270D
Benzo(a)pyrene	460		120	420	ug/Kg	8270D
Benzo(b)fluoranthene	570		70	420	ug/Kg	8270D
Benzo(g,h,i)perylene	430		96	420	ug/Kg	8270D
Benzo(k)fluoranthene	200	J	68	420	ug/Kg	8270D
Chrysene	430		62	420	ug/Kg	8270D
Fluoranthene	740		110	420	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	380	J	140	420	ug/Kg	8270D
Phenanthrene	230	J	59	420	ug/Kg	8270D
Pyrene	580		70	420	ug/Kg	8270D

CLIENT ID: SSA-5 12	Lab ID: R2102620-012					
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	78.6				Percent	ALS SOP
Benz(a)anthracene	490		61	410	ug/Kg	8270D
Benzo(a)pyrene	830		110	410	ug/Kg	8270D
Benzo(b)fluoranthene	980		69	410	ug/Kg	8270D
Benzo(g,h,i)perylene	710		95	410	ug/Kg	8270D
Benzo(k)fluoranthene	360	J	67	410	ug/Kg	8270D
Chrysene	770		61	410	ug/Kg	8270D
Dibenz(a,h)anthracene	110	J	89	410	ug/Kg	8270D

SAMPLE DETECTION SUMMARY

CLIENT ID: SSA-5 12			Lab ID: R2102620-012			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Fluoranthene	1400		110	410	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	660		140	410	ug/Kg	8270D
Phenanthrene	450		58	410	ug/Kg	8270D
Pyrene	1100		69	410	ug/Kg	8270D

CLIENT ID: SSA-5 21			Lab ID: R2102620-013			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	82.3				Percent	ALS SOP

CLIENT ID: SSA-4 0-2			Lab ID: R2102620-014			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	66.7				Percent	ALS SOP
Acenaphthene	1300	J	930	4900	ug/Kg	8270D
Anthracene	6500		820	4900	ug/Kg	8270D
Benz(a)anthracene	53000		730	4900	ug/Kg	8270D
Benzo(a)pyrene	89000		1400	4900	ug/Kg	8270D
Benzo(b)fluoranthene	120000	E	820	4900	ug/Kg	8270D
Benzo(g,h,i)perylene	61000		1200	4900	ug/Kg	8270D
Benzo(k)fluoranthene	45000		800	4900	ug/Kg	8270D
Chrysene	88000		720	4900	ug/Kg	8270D
Dibenz(a,h)anthracene	12000		1100	4900	ug/Kg	8270D
Fluoranthene	140000	E	1300	4900	ug/Kg	8270D
Fluorene	2000	J	920	4900	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	61000		1600	4900	ug/Kg	8270D
Phenanthrene	58000		700	4900	ug/Kg	8270D
Pyrene	120000	E	820	4900	ug/Kg	8270D
Anthracene	6400	DJ	1700	9800	ug/Kg	8270D
Benz(a)anthracene	53000	D	1500	9800	ug/Kg	8270D
Benzo(a)pyrene	89000	D	2700	9800	ug/Kg	8270D
Benzo(b)fluoranthene	120000	D	1700	9800	ug/Kg	8270D
Benzo(g,h,i)perylene	60000	D	2300	9800	ug/Kg	8270D
Benzo(k)fluoranthene	42000	D	1600	9800	ug/Kg	8270D
Chrysene	91000	D	1500	9800	ug/Kg	8270D
Dibenz(a,h)anthracene	12000	D	2200	9800	ug/Kg	8270D
Fluoranthene	170000	D	2500	9800	ug/Kg	8270D
Fluorene	2000	DJ	1900	9800	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	62000	D	3200	9800	ug/Kg	8270D
Phenanthrene	62000	D	1400	9800	ug/Kg	8270D
Pyrene	130000	D	1700	9800	ug/Kg	8270D

CLIENT ID: SSA-4 5			Lab ID: R2102620-015			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	78.6				Percent	ALS SOP

SAMPLE DETECTION SUMMARY

CLIENT ID: SSA-4 5			Lab ID: R2102620-015			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Acenaphthene	130	J	80	420	ug/Kg	8270D
Acenaphthylene	110	J	86	420	ug/Kg	8270D
Anthracene	660		71	420	ug/Kg	8270D
Benz(a)anthracene	5800		63	420	ug/Kg	8270D
Benzo(a)pyrene	9800	E	120	420	ug/Kg	8270D
Benzo(b)fluoranthene	13000	E	71	420	ug/Kg	8270D
Benzo(g,h,i)perylene	7000		97	420	ug/Kg	8270D
Benzo(k)fluoranthene	4400		68	420	ug/Kg	8270D
Chrysene	8800	E	62	420	ug/Kg	8270D
Dibenz(a,h)anthracene	1300		92	420	ug/Kg	8270D
Fluoranthene	12000	E	110	420	ug/Kg	8270D
Fluorene	200	J	79	420	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	6900		140	420	ug/Kg	8270D
Phenanthrene	4900		60	420	ug/Kg	8270D
Pyrene	10000	E	70	420	ug/Kg	8270D
Anthracene	690	DJ	150	840	ug/Kg	8270D
Benz(a)anthracene	6200	D	130	840	ug/Kg	8270D
Benzo(a)pyrene	11000	D	230	840	ug/Kg	8270D
Benzo(b)fluoranthene	14000	D	150	840	ug/Kg	8270D
Benzo(g,h,i)perylene	6900	D	200	840	ug/Kg	8270D
Benzo(k)fluoranthene	4800	D	140	840	ug/Kg	8270D
Chrysene	9900	D	130	840	ug/Kg	8270D
Dibenz(a,h)anthracene	1400	D	190	840	ug/Kg	8270D
Fluoranthene	17000	D	220	840	ug/Kg	8270D
Fluorene	200	DJ	160	840	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	7200	D	280	840	ug/Kg	8270D
Phenanthrene	5700	D	120	840	ug/Kg	8270D
Pyrene	13000	D	140	840	ug/Kg	8270D

CLIENT ID: SSA-4 8			Lab ID: R2102620-016			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	73.9				Percent	ALS SOP
Acenaphthene	120	J	84	450	ug/Kg	8270D
Acenaphthylene	91	J	90	450	ug/Kg	8270D
Anthracene	610		75	450	ug/Kg	8270D
Benz(a)anthracene	4400		66	450	ug/Kg	8270D
Benzo(a)pyrene	7600		120	450	ug/Kg	8270D
Benzo(b)fluoranthene	10000	E	75	450	ug/Kg	8270D
Benzo(g,h,i)perylene	5500		110	450	ug/Kg	8270D
Benzo(k)fluoranthene	3300		72	450	ug/Kg	8270D
Chrysene	7100		66	450	ug/Kg	8270D
Dibenz(a,h)anthracene	1000		97	450	ug/Kg	8270D

SAMPLE DETECTION SUMMARY

CLIENT ID: SSA-4 8			Lab ID: R2102620-016			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Fluoranthene	11000	E	120	450	ug/Kg	8270D
Fluorene	190	J	84	450	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	5300		150	450	ug/Kg	8270D
Phenanthrene	4400		63	450	ug/Kg	8270D
Pyrene	9100	E	74	450	ug/Kg	8270D
Anthracene	640	DJ	150	890	ug/Kg	8270D
Benz(a)anthracene	4900	D	140	890	ug/Kg	8270D
Benzo(a)pyrene	8100	D	240	890	ug/Kg	8270D
Benzo(b)fluoranthene	11000	D	150	890	ug/Kg	8270D
Benzo(g,h,i)perylene	5300	D	210	890	ug/Kg	8270D
Benzo(k)fluoranthene	3700	D	150	890	ug/Kg	8270D
Chrysene	7700	D	140	890	ug/Kg	8270D
Dibenz(a,h)anthracene	1000	D	200	890	ug/Kg	8270D
Fluoranthene	14000	D	230	890	ug/Kg	8270D
Fluorene	210	DJ	170	890	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	5200	D	290	890	ug/Kg	8270D
Phenanthrene	4900	D	130	890	ug/Kg	8270D
Pyrene	11000	D	150	890	ug/Kg	8270D

CLIENT ID: SSA-4 18			Lab ID: R2102620-017			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	76.1				Percent	ALS SOP
Acenaphthene	88	J	82	430	ug/Kg	8270D
Anthracene	420	J	73	430	ug/Kg	8270D
Benz(a)anthracene	3100		65	430	ug/Kg	8270D
Benzo(a)pyrene	5200		120	430	ug/Kg	8270D
Benzo(b)fluoranthene	6800		73	430	ug/Kg	8270D
Benzo(g,h,i)perylene	3800		100	430	ug/Kg	8270D
Benzo(k)fluoranthene	2300		70	430	ug/Kg	8270D
Chrysene	5000		64	430	ug/Kg	8270D
Dibenz(a,h)anthracene	690		95	430	ug/Kg	8270D
Fluoranthene	8700		110	430	ug/Kg	8270D
Fluorene	140	J	82	430	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	3800		140	430	ug/Kg	8270D
Phenanthrene	3200		62	430	ug/Kg	8270D
Pyrene	7100		73	430	ug/Kg	8270D

Sample Receipt Information

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Client: Leader Professional Services, Inc. **Service Request:**R2102620

Project: Former Bisonite/235.198A

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R2102620-001	SSA-6 0-2	3/18/2021	0955
R2102620-002	SSA-6 6	3/18/2021	1012
R2102620-003	SSA-6 12	3/18/2021	1015
R2102620-004	SSA-6 23	3/18/2021	1020
R2102620-005	SSB-4 0-2	3/18/2021	1100
R2102620-006	SSB-4 5	3/18/2021	1103
R2102620-007	SSB-4 10	3/18/2021	1104
R2102620-008	SSB-4 18	3/18/2021	1105
R2102620-009	SSA-5 21 DUP	3/18/2021	1145
R2102620-010	SSA-5 0.2	3/18/2021	1135
R2102620-011	SSA-5 6	3/18/2021	1138
R2102620-012	SSA-5 12	3/18/2021	1140
R2102620-013	SSA-5 21	3/18/2021	1145
R2102620-014	SSA-4 0-2	3/18/2021	1200
R2102620-015	SSA-4 5	3/18/2021	1215
R2102620-016	SSA-4 8	3/18/2021	1220
R2102620-017	SSA-4 18	3/18/2021	1230

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

004560

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 5

Project Name: Former Bisonite	Project Number: 235.198A
Project Manager: Frank Thomas	Report CC: Pete Vonschondorf, Rob Murphy
Company/Address: Leader Professional Services, 271 Marsh Road, Ste. 2, Pittsford, Ny 14534	
Phone #: 585 248-2413	Email: fthomas@leaderdrive.com
Sampler's Signature:	Sampler's Printed Name: Frank Thomas

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 4oC

NUMBER OF CONTAINERS

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	GC/MS VOAs • 8260 • 624 • CLP	GC/MS SVOAs • 8270 • 625	GC VOAs • 8021 • 601/602	PESTICIDES • 8081 • 608	PCBs • 8082 • 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	8270 PAH							
SSA-6 0-2"		3/18/21	9:55	SO								X							
SSA-6 6"		3/18/21	10:12	SO								X							
SSA-6 12"		3/18/21	10:15	SO								X							
SSA-6 23"		3/18/21	10:20	SO								X							
SSB-4 0-2"		3/18/21	11:00	SO								X							
SSB-4 5"			11:03	SO								X							
SSB-4 10"			11:04	SO								X							
SSB-4 18"			11:05	SO								X							
SSA-5 21" DUP			11:45	SO								X							
SSA-5 21" MS/MSD			11:45	SO															

Preservative Key: 0. NONE; 1. HCL; 2. HNO_3; 3. H_2SO_4; 4. NaOH; 5. Zn. Acetate; 6. MeOH; 7. $NaHSO_4$; 8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

SPECIAL INSTRUCTIONS/COMMENTS
Metals

Cat B Deliverables

See QAPP ☐

TURNAROUND REQUIREMENTS
___ RUSH (SURCHARGES APPLY)
___ 1 day ___ 2 day ___ 3 day
___ 4 day ___ 5 day
✓ Standard (10 business days-No Surcharge)

REQUESTED REPORT DATE: _____

REPORT REQUIREMENTS
___ I. Results Only
✓ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data

Edata ✓ Yes ___ No

INVOICE INFORMATION
PO # 235.198A
BILL TO: Leader

STATE WHERE SAMPLES WERE COLLECTED

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature	Signature	
Printed Name: Alec Minaris	Printed Name: Daniel Wahl C	Printed Name	Printed Name	Printed Name	
Firm: Leader	Firm: ALS	Firm	Firm	Firm	
Date/Time: 3/19/21 16:30	Date/Time: 3/19/21 16:50	Date/Time	Date/Time	Date/Time	

R2102620
Leader Professional Services, Inc.
Former Bisonite
5

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

004561

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Project Name: Former Bisonite	Project Number: 235.198A
Project Manager:	Report CC: Pete Voulschoondorf, Rob Murphy
Company/Address: Leader Professional Services, 271 Marsh Road, Pittsford, NY 14534	
Phone #: 585 248-2413	Email: FThomas@leaderlive.com
Sampler's Signature:	Sampler's Printed Name: Frank Thomas

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: 40°

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	8270 PAH
SSA-5 0-2"		3/18/21	11:35	SO		X
SSA-5 6"			11:38			X
SSA-5 12"			11:40			X
SSA-5 21"			11:45			X
SSA-4 0-2"			12:00			X
SSA-4 5"			12:15			X
SSA-4 8"			12:20			X
SSA-4 18"			12:30			X

Preservative Key: 0. NONE; 1. HCl; 2. HNO_3; 3. H_2SO_4; 4. NaOH; 5. Zn. Acetate; 6. MeOH; 7. $NaHSO_4$; 8. Other

REMARKS/ALTERNATE DESCRIPTION

SPECIAL INSTRUCTIONS/COMMENTS: Metals

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED

TURNAROUND REQUIREMENTS
- ___ RUSH (SURCHARGES APPLY)
- ___ 1 day ___ 2 day ___ 3 day
- ___ 4 day ___ 5 day
- ✓ Standard (10 business days-No Surcharge)

REQUESTED REPORT DATE: ___

REPORT REQUIREMENTS
- ___ I. Results Only
- ✓ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
- ___ III. Results + QC and Calibration Summaries
- ___ IV. Data Validation Report with Raw Data

Edata ✓ Yes ___ No

INVOICE INFORMATION
- PO # 235.198A
- BILL TO: Leader

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name	Printed Name: Daniel Ward	Printed Name	Printed Name	Printed Name	Printed Name
Firm	Firm: ALS	Firm	Firm	Firm	Firm
Date/Time	Date/Time: 3/19/21 / 17:45	Date/Time	Date/Time	Date/Time	Date/Time

R2102620 5
Leader Professional Services, Inc.
Former Bisonite

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R2102620 5
Leader Professional Services, Inc.
Former Bisonite

Cooler Receipt and Preservation Check Form

Project/Client Leader Folder Number

Cooler received on 3/19/21 by: SW

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y (N)
2	Custody papers properly completed (ink, signed)?	(Y) N
3	Did all bottles arrive in good condition (unbroken)?	(Y) N
4	Circle: Wet Ice Dry Ice Gel packs present?	(Y) N

5a	Perchlorate samples have required headspace?	Y N (NA)
5b	Did VOA vials, Alk,or Sulfide have sig* bubbles?	Y N (NA)
6	Where did the bottles originate?	ALS/ROC CLIENT
7	Soil VOA received as:	Bulk Encore 5035set (NA)

8. Temperature Readings Date: 3/19/21 Time: 1705 ID: IR#7 IR#11 From: Temp Blank Sample Bottle

Observed Temp (°C)	6.9						
Within 0-6°C?	Y N*	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below)* Same Day Rule

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R02 by SW on 3/19/21 at 1705
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 3/22/21 Time: 1326 by: _____

9. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
10. Did all bottle labels and tags agree with custody papers? (YES) NO
11. Were correct containers used for the tests indicated? (YES) NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO (N/A)
13. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated (N/A)

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2		HNO_3								
≤2		H_2SO_4								
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add $Na_2S_7O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-						
		HCl	**	**						

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 101920-15R

Explain all Discrepancies/ Other Comments:

* Not enough gel packs provided to each samples down.

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: _____

PC Secondary Review: _____ 3/23/21

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

Client: Leader Professional Services, Inc. **Service Request:** R2102620
Project: Former Bisonite/235.198A

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2102620-001.01					
	8270D,ALS SOP				
		3/22/2021	1329	SMO / GLAFORCE	
		3/22/2021	1332	R-002 / GLAFORCE	
R2102620-002.01					
	ALS SOP,8270D				
		3/22/2021	1329	SMO / GLAFORCE	
		3/22/2021	1332	R-002 / GLAFORCE	
R2102620-003.01					
	ALS SOP,8270D				
		3/22/2021	1329	SMO / GLAFORCE	
		3/22/2021	1332	R-002 / GLAFORCE	
R2102620-004.01					
	ALS SOP,8270D				
		3/22/2021	1329	SMO / GLAFORCE	
		3/22/2021	1332	R-002 / GLAFORCE	
R2102620-005.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1329	SMO / GLAFORCE	
		3/22/2021	1332	R-002 / GLAFORCE	
R2102620-006.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1329	SMO / GLAFORCE	
		3/22/2021	1332	R-002 / GLAFORCE	
R2102620-007.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1329	SMO / GLAFORCE	
		3/22/2021	1332	R-002 / GLAFORCE	
R2102620-008.01					
	ALS SOP,8270D				
		3/22/2021	1329	SMO / GLAFORCE	
		3/22/2021	1332	R-002 / GLAFORCE	
R2102620-009.01					
	ALS SOP,8270D				
		3/22/2021	1329	SMO / GLAFORCE	
		3/22/2021	1332	R-002 / GLAFORCE	
R2102620-010.01					
	ALS SOP,8270D				
		3/22/2021	1329	SMO / GLAFORCE	
		3/22/2021	1332	R-002 / GLAFORCE	

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Internal Chain of Custody Report

Client: Leader Professional Services, Inc. **Service Request:** R2102620
Project: Former Bisonite/235.198A

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2102620-011.01					
	ALS SOP,8270D				
		3/22/2021	1329	SMO / GLAFORCE	
		3/22/2021	1332	R-002 / GLAFORCE	
R2102620-012.01					
	ALS SOP,8270D				
		3/22/2021	1329	SMO / GLAFORCE	
		3/22/2021	1332	R-002 / GLAFORCE	
R2102620-013.01					
	ALS SOP,8270D				
		3/22/2021	1329	SMO / GLAFORCE	
		3/22/2021	1332	R-002 / GLAFORCE	
R2102620-013.02					
		3/22/2021	1332	SMO / GLAFORCE	
		3/22/2021	1332	R-002 / GLAFORCE	
R2102620-014.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1329	SMO / GLAFORCE	
		3/22/2021	1332	R-002 / GLAFORCE	
R2102620-015.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1329	SMO / GLAFORCE	
		3/22/2021	1332	R-002 / GLAFORCE	
R2102620-016.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1329	SMO / GLAFORCE	
		3/22/2021	1332	R-002 / GLAFORCE	
R2102620-017.01					
	ALS SOP,8270D				
		3/22/2021	1329	SMO / GLAFORCE	
		3/22/2021	1332	R-002 / GLAFORCE	

Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.

J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).

B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.

E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.

E Organics- Concentration has exceeded the calibration range for that specific analysis.

D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.

* Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.

H Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.

Spike was diluted out.

\+ Correlation coefficient for MSA is <0.995.

N Inorganics- Matrix spike recovery was outside laboratory limits.

N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.

S Concentration has been determined using Method of Standard Additions (MSA).

W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.

P Concentration >40% difference between the two GC columns.

C Confirmed by GC/MS

Q DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).

X See Case Narrative for discussion.

MRL Method Reporting Limit. Also known as:
LOQ Limit of Quantitation (LOQ)
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.

MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).

LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.

ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

[1] Analyses were performed according to our laboratoryôs NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: Leader Professional Services, Inc. **Service Request:** R2102620
Project: Former Bisonite/235.198A

Sample Name: SSA-6 0-2 **Date Collected:** 03/18/21
Lab Code: R2102620-001 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name: SSA-6 6 **Date Collected:** 03/18/21
Lab Code: R2102620-002 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name: SSA-6 12 **Date Collected:** 03/18/21
Lab Code: R2102620-003 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name: SSA-6 23 **Date Collected:** 03/18/21
Lab Code: R2102620-004 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Client: Leader Professional Services, Inc. **Service Request:** R2102620
Project: Former Bisonite/235.198A

Sample Name: SSB-4 0-2 **Date Collected:** 03/18/21
Lab Code: R2102620-005 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	BALLGEIER
ALS SOP		KAWONG

Sample Name: SSB-4 0-2 **Date Collected:** 03/18/21
Lab Code: R2102620-005.R01 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name: SSB-4 5 **Date Collected:** 03/18/21
Lab Code: R2102620-006 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name: SSB-4 5 **Date Collected:** 03/18/21
Lab Code: R2102620-006.R01 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Client: Leader Professional Services, Inc. **Service Request:** R2102620
Project: Former Bisonite/235.198A

Sample Name: SSB-4 10 **Date Collected:** 03/18/21
Lab Code: R2102620-007 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	BALLGEIER
ALS SOP		KAWONG

Sample Name: SSB-4 10 **Date Collected:** 03/18/21
Lab Code: R2102620-007.R01 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name: SSB-4 18 **Date Collected:** 03/18/21
Lab Code: R2102620-008 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name: SSA-5 21 DUP **Date Collected:** 03/18/21
Lab Code: R2102620-009 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Client: Leader Professional Services, Inc. **Service Request:** R2102620
Project: Former Bisonite/235.198A

Sample Name: SSA-5 0.2 **Date Collected:** 03/18/21
Lab Code: R2102620-010 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name: SSA-5 6 **Date Collected:** 03/18/21
Lab Code: R2102620-011 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name: SSA-5 12 **Date Collected:** 03/18/21
Lab Code: R2102620-012 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name: SSA-5 21 **Date Collected:** 03/18/21
Lab Code: R2102620-013 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Client: Leader Professional Services, Inc. **Service Request:** R2102620
Project: Former Bisonite/235.198A

Sample Name: SSA-4 0-2 **Date Collected:** 03/18/21
Lab Code: R2102620-014 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	BALLGEIER
ALS SOP		KAWONG

Sample Name: SSA-4 0-2 **Date Collected:** 03/18/21
Lab Code: R2102620-014.R01 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name: SSA-4 5 **Date Collected:** 03/18/21
Lab Code: R2102620-015 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	BALLGEIER
ALS SOP		KAWONG

Sample Name: SSA-4 5 **Date Collected:** 03/18/21
Lab Code: R2102620-015.R01 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Client: Leader Professional Services, Inc. **Service Request:** R2102620
Project: Former Bisonite/235.198A

Sample Name: SSA-4 8 **Date Collected:** 03/18/21
Lab Code: R2102620-016 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	BALLGEIER
ALS SOP		KAWONG

Sample Name: SSA-4 8 **Date Collected:** 03/18/21
Lab Code: R2102620-016.R01 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name: SSA-4 18 **Date Collected:** 03/18/21
Lab Code: R2102620-017 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	

Sample Results

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 09:55
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-6 0-2	**Units:**	ug/Kg
Lab Code:	R2102620-001	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	4200 U	4200	690	10	03/26/21 18:02	3/24/21	
Acenaphthene	**920 J**	4200	790	10	03/26/21 18:02	3/24/21	
Acenaphthylene	4200 U	4200	850	10	03/26/21 18:02	3/24/21	
Anthracene	**4100 J**	4200	700	10	03/26/21 18:02	3/24/21	
Benz(a)anthracene	**30000**	4200	620	10	03/26/21 18:02	3/24/21	
Benzo(a)pyrene	**48000**	4200	1200	10	03/26/21 18:02	3/24/21	
Benzo(b)fluoranthene	**59000**	4200	700	10	03/26/21 18:02	3/24/21	
Benzo(g,h,i)perylene	**38000**	4200	960	10	03/26/21 18:02	3/24/21	
Benzo(k)fluoranthene	**21000**	4200	680	10	03/26/21 18:02	3/24/21	
Chrysene	**43000**	4200	620	10	03/26/21 18:02	3/24/21	
Dibenz(a,h)anthracene	**6800**	4200	910	10	03/26/21 18:02	3/24/21	
Fluoranthene	**81000**	4200	1100	10	03/26/21 18:02	3/24/21	
Fluorene	**1200 J**	4200	780	10	03/26/21 18:02	3/24/21	
Indeno(1,2,3-cd)pyrene	**38000**	4200	1400	10	03/26/21 18:02	3/24/21	
Naphthalene	4200 U	4200	780	10	03/26/21 18:02	3/24/21	
Phenanthrene	**30000**	4200	590	10	03/26/21 18:02	3/24/21	
Pyrene	**66000**	4200	700	10	03/26/21 18:02	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	43	10 - 102	03/26/21 18:02	
Nitrobenzene-d5	43	10 - 95	03/26/21 18:02	
p-Terphenyl-d14	64	10 - 106	03/26/21 18:02	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 10:12
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-6 6	**Units:**	ug/Kg
Lab Code:	R2102620-002	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	420 U	420	69	1	03/25/21 19:44	3/24/21	
Acenaphthene	420 U	420	79	1	03/25/21 19:44	3/24/21	
Acenaphthylene	420 U	420	84	1	03/25/21 19:44	3/24/21	
Anthracene	**240 J**	420	70	1	03/25/21 19:44	3/24/21	
Benz(a)anthracene	**2000**	420	62	1	03/25/21 19:44	3/24/21	
Benzo(a)pyrene	**3500**	420	120	1	03/25/21 19:44	3/24/21	
Benzo(b)fluoranthene	**4000**	420	70	1	03/25/21 19:44	3/24/21	
Benzo(g,h,i)perylene	**3000**	420	96	1	03/25/21 19:44	3/24/21	
Benzo(k)fluoranthene	**1400**	420	67	1	03/25/21 19:44	3/24/21	
Chrysene	**3100**	420	61	1	03/25/21 19:44	3/24/21	
Dibenz(a,h)anthracene	**480**	420	90	1	03/25/21 19:44	3/24/21	
Fluoranthene	**5500**	420	110	1	03/25/21 19:44	3/24/21	
Fluorene	420 U	420	78	1	03/25/21 19:44	3/24/21	
Indeno(1,2,3-cd)pyrene	**2900**	420	140	1	03/25/21 19:44	3/24/21	
Naphthalene	420 U	420	78	1	03/25/21 19:44	3/24/21	
Phenanthrene	**1800**	420	59	1	03/25/21 19:44	3/24/21	
Pyrene	**4200**	420	69	1	03/25/21 19:44	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	48	10 - 102	03/25/21 19:44	
Nitrobenzene-d5	48	10 - 95	03/25/21 19:44	
p-Terphenyl-d14	73	10 - 106	03/25/21 19:44	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 10:15
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-6 12	**Units:**	ug/Kg
Lab Code:	R2102620-003	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	420 U	420	70	1	03/25/21 20:13	3/24/21	
Acenaphthene	420 U	420	80	1	03/25/21 20:13	3/24/21	
Acenaphthylene	420 U	420	86	1	03/25/21 20:13	3/24/21	
Anthracene	420 U	420	71	1	03/25/21 20:13	3/24/21	
Benz(a)anthracene	420 U	420	63	1	03/25/21 20:13	3/24/21	
Benzo(a)pyrene	420 U	420	120	1	03/25/21 20:13	3/24/21	
Benzo(b)fluoranthene	420 U	420	71	1	03/25/21 20:13	3/24/21	
Benzo(g,h,i)perylene	420 U	420	98	1	03/25/21 20:13	3/24/21	
Benzo(k)fluoranthene	420 U	420	69	1	03/25/21 20:13	3/24/21	
Chrysene	420 U	420	63	1	03/25/21 20:13	3/24/21	
Dibenz(a,h)anthracene	420 U	420	92	1	03/25/21 20:13	3/24/21	
Fluoranthene	420 U	420	110	1	03/25/21 20:13	3/24/21	
Fluorene	420 U	420	80	1	03/25/21 20:13	3/24/21	
Indeno(1,2,3-cd)pyrene	420 U	420	140	1	03/25/21 20:13	3/24/21	
Naphthalene	420 U	420	80	1	03/25/21 20:13	3/24/21	
Phenanthrene	420 U	420	60	1	03/25/21 20:13	3/24/21	
Pyrene	420 U	420	71	1	03/25/21 20:13	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	31	10 - 102	03/25/21 20:13	
Nitrobenzene-d5	34	10 - 95	03/25/21 20:13	
p-Terphenyl-d14	53	10 - 106	03/25/21 20:13	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 10:20
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-6 23	**Units:**	ug/Kg
Lab Code:	R2102620-004	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	400 U	400	67	1	03/26/21 14:05	3/24/21	
Acenaphthene	400 U	400	76	1	03/26/21 14:05	3/24/21	
Acenaphthylene	400 U	400	82	1	03/26/21 14:05	3/24/21	
Anthracene	**350 J**	400	68	1	03/26/21 14:05	3/24/21	
Benz(a)anthracene	**2800**	400	60	1	03/26/21 14:05	3/24/21	
Benzo(a)pyrene	**4800**	400	110	1	03/26/21 14:05	3/24/21	
Benzo(b)fluoranthene	**5800**	400	67	1	03/26/21 14:05	3/24/21	
Benzo(g,h,i)perylene	**4300**	400	93	1	03/26/21 14:05	3/24/21	
Benzo(k)fluoranthene	**2000**	400	65	1	03/26/21 14:05	3/24/21	
Chrysene	**4300**	400	60	1	03/26/21 14:05	3/24/21	
Dibenz(a,h)anthracene	**690**	400	88	1	03/26/21 14:05	3/24/21	
Fluoranthene	**7200**	400	110	1	03/26/21 14:05	3/24/21	
Fluorene	**95 J**	400	76	1	03/26/21 14:05	3/24/21	
Indeno(1,2,3-cd)pyrene	**4100**	400	130	1	03/26/21 14:05	3/24/21	
Naphthalene	400 U	400	76	1	03/26/21 14:05	3/24/21	
Phenanthrene	**2300**	400	57	1	03/26/21 14:05	3/24/21	
Pyrene	**5600**	400	67	1	03/26/21 14:05	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	23	10 - 102	03/26/21 14:05	
Nitrobenzene-d5	21	10 - 95	03/26/21 14:05	
p-Terphenyl-d14	41	10 - 106	03/26/21 14:05	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:00
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-4 0-2	**Units:**	ug/Kg
Lab Code:	R2102620-005	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	**690**	**DJ**	2200	370	5	03/29/21 19:10	3/24/21	
Acenaphthene	**910**	**DJ**	2200	420	5	03/29/21 19:10	3/24/21	
Acenaphthylene	2200	U	2200	450	5	03/29/21 19:10	3/24/21	
Anthracene	**2600**	**D**	2200	370	5	03/29/21 19:10	3/24/21	
Benz(a)anthracene	**16000**	**D**	2200	330	5	03/29/21 19:10	3/24/21	
Benzo(a)pyrene	**26000**	**D**	2200	590	5	03/29/21 19:10	3/24/21	
Benzo(b)fluoranthene	**32000**	**D**	2200	370	5	03/29/21 19:10	3/24/21	
Benzo(g,h,i)perylene	**18000**	**D**	2200	510	5	03/29/21 19:10	3/24/21	
Benzo(k)fluoranthene	**11000**	**D**	2200	360	5	03/29/21 19:10	3/24/21	
Chrysene	**23000**	**D**	2200	330	5	03/29/21 19:10	3/24/21	
Dibenz(a,h)anthracene	**3600**	**D**	2200	480	5	03/29/21 19:10	3/24/21	
Fluoranthene	**42000**	**D**	2200	560	5	03/29/21 19:10	3/24/21	
Fluorene	**1000**	**DJ**	2200	420	5	03/29/21 19:10	3/24/21	
Indeno(1,2,3-cd)pyrene	**19000**	**D**	2200	710	5	03/29/21 19:10	3/24/21	
Naphthalene	2200	U	2200	420	5	03/29/21 19:10	3/24/21	
Phenanthrene	**18000**	**D**	2200	320	5	03/29/21 19:10	3/24/21	
Pyrene	**35000**	**D**	2200	370	5	03/29/21 19:10	3/24/21	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:00
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-4 0-2	**Units:**	ug/Kg
Lab Code:	R2102620-005	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	51	10 - 102	03/29/21 19:10	
Nitrobenzene-d5	55	10 - 95	03/29/21 19:10	
p-Terphenyl-d14	66	10 - 106	03/29/21 19:10	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:00
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-4 0-2	**Units:**	ug/Kg
Lab Code:	R2102620-005	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	**630**	**J**	880	150	2	03/26/21 18:31	3/24/21	
Acenaphthene	**840**	**J**	880	170	2	03/26/21 18:31	3/24/21	
Acenaphthylene	**300**	**J**	880	180	2	03/26/21 18:31	3/24/21	
Anthracene	**2500**		880	150	2	03/26/21 18:31	3/24/21	
Benz(a)anthracene	**15000**		880	140	2	03/26/21 18:31	3/24/21	
Benzo(a)pyrene	**24000**	**E**	880	240	2	03/26/21 18:31	3/24/21	
Benzo(b)fluoranthene	**31000**	**E**	880	150	2	03/26/21 18:31	3/24/21	
Benzo(g,h,i)perylene	**15000**		880	210	2	03/26/21 18:31	3/24/21	
Benzo(k)fluoranthene	**9900**		880	150	2	03/26/21 18:31	3/24/21	
Chrysene	**21000**	**E**	880	130	2	03/26/21 18:31	3/24/21	
Dibenz(a,h)anthracene	**3000**		880	200	2	03/26/21 18:31	3/24/21	
Fluoranthene	**30000**	**E**	880	230	2	03/26/21 18:31	3/24/21	
Fluorene	**950**		880	170	2	03/26/21 18:31	3/24/21	
Indeno(1,2,3-cd)pyrene	**16000**		880	290	2	03/26/21 18:31	3/24/21	
Naphthalene	**390**	**J**	880	170	2	03/26/21 18:31	3/24/21	
Phenanthrene	**15000**		880	130	2	03/26/21 18:31	3/24/21	
Pyrene	**26000**	**E**	880	150	2	03/26/21 18:31	3/24/21	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:00
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-4 0-2	**Units:**	ug/Kg
Lab Code:	R2102620-005	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	47	10 - 102	03/26/21 18:31	
Nitrobenzene-d5	49	10 - 95	03/26/21 18:31	
p-Terphenyl-d14	62	10 - 106	03/26/21 18:31	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:03
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-4 5	**Units:**	ug/Kg
Lab Code:	R2102620-006	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	4500 U	4500	750	10	03/31/21 20:31	3/24/21	
Acenaphthene	**2100 DJ**	4500	850	10	03/31/21 20:31	3/24/21	
Acenaphthylene	4500 U	4500	910	10	03/31/21 20:31	3/24/21	
Anthracene	**5400 D**	4500	760	10	03/31/21 20:31	3/24/21	
Benz(a)anthracene	**20000 D**	4500	670	10	03/31/21 20:31	3/24/21	
Benzo(a)pyrene	**29000 D**	4500	1200	10	03/31/21 20:31	3/24/21	
Benzo(b)fluoranthene	**34000 D**	4500	750	10	03/31/21 20:31	3/24/21	
Benzo(g,h,i)perylene	**21000 D**	4500	1100	10	03/31/21 20:31	3/24/21	
Benzo(k)fluoranthene	**12000 D**	4500	730	10	03/31/21 20:31	3/24/21	
Chrysene	**26000 D**	4500	670	10	03/31/21 20:31	3/24/21	
Dibenz(a,h)anthracene	**3800 DJ**	4500	980	10	03/31/21 20:31	3/24/21	
Fluoranthene	**57000 D**	4500	1200	10	03/31/21 20:31	3/24/21	
Fluorene	**2300 DJ**	4500	850	10	03/31/21 20:31	3/24/21	
Indeno(1,2,3-cd)pyrene	**21000 D**	4500	1500	10	03/31/21 20:31	3/24/21	
Naphthalene	4500 U	4500	850	10	03/31/21 20:31	3/24/21	
Phenanthrene	**28000 D**	4500	640	10	03/31/21 20:31	3/24/21	
Pyrene	**42000 D**	4500	750	10	03/31/21 20:31	3/24/21	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:03
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-4 5	**Units:**	ug/Kg
Lab Code:	R2102620-006	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	56	10 - 102	03/31/21 20:31	
Nitrobenzene-d5	56	10 - 95	03/31/21 20:31	
p-Terphenyl-d14	74	10 - 106	03/31/21 20:31	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:03
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-4 5	**Units:**	ug/Kg
Lab Code:	R2102620-006	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	**220**	**J**	900	150	2	03/26/21 19:01	3/24/21	
Acenaphthene	**1800**		900	170	2	03/26/21 19:01	3/24/21	
Acenaphthylene	**280**	**J**	900	190	2	03/26/21 19:01	3/24/21	
Anthracene	**4500**		900	160	2	03/26/21 19:01	3/24/21	
Benz(a)anthracene	**16000**		900	140	2	03/26/21 19:01	3/24/21	
Benzo(a)pyrene	**24000**	**E**	900	240	2	03/26/21 19:01	3/24/21	
Benzo(b)fluoranthene	**30000**	**E**	900	150	2	03/26/21 19:01	3/24/21	
Benzo(g,h,i)perylene	**14000**		900	210	2	03/26/21 19:01	3/24/21	
Benzo(k)fluoranthene	**10000**		900	150	2	03/26/21 19:01	3/24/21	
Chrysene	**21000**	**E**	900	140	2	03/26/21 19:01	3/24/21	
Dibenz(a,h)anthracene	**2900**		900	200	2	03/26/21 19:01	3/24/21	
Fluoranthene	**31000**	**E**	900	230	2	03/26/21 19:01	3/24/21	
Fluorene	**1900**		900	170	2	03/26/21 19:01	3/24/21	
Indeno(1,2,3-cd)pyrene	**15000**		900	290	2	03/26/21 19:01	3/24/21	
Naphthalene	900	U	900	170	2	03/26/21 19:01	3/24/21	
Phenanthrene	**19000**	**E**	900	130	2	03/26/21 19:01	3/24/21	
Pyrene	**27000**	**E**	900	150	2	03/26/21 19:01	3/24/21	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:03
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-4 5	**Units:**	ug/Kg
Lab Code:	R2102620-006	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	46	10 - 102	03/26/21 19:01	
Nitrobenzene-d5	48	10 - 95	03/26/21 19:01	
p-Terphenyl-d14	62	10 - 106	03/26/21 19:01	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:04
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-4 10	**Units:**	ug/Kg
Lab Code:	R2102620-007	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	2100 U	2100	350	5	03/29/21 20:06	3/24/21	
Acenaphthene	**660 DJ**	2100	400	5	03/29/21 20:06	3/24/21	
Acenaphthylene	2100 U	2100	430	5	03/29/21 20:06	3/24/21	
Anthracene	**2200 D**	2100	350	5	03/29/21 20:06	3/24/21	
Benz(a)anthracene	**14000 D**	2100	310	5	03/29/21 20:06	3/24/21	
Benzo(a)pyrene	**23000 D**	2100	560	5	03/29/21 20:06	3/24/21	
Benzo(b)fluoranthene	**29000 D**	2100	350	5	03/29/21 20:06	3/24/21	
Benzo(g,h,i)perylene	**15000 D**	2100	480	5	03/29/21 20:06	3/24/21	
Benzo(k)fluoranthene	**11000 D**	2100	340	5	03/29/21 20:06	3/24/21	
Chrysene	**20000 D**	2100	310	5	03/29/21 20:06	3/24/21	
Dibenz(a,h)anthracene	**3000 D**	2100	460	5	03/29/21 20:06	3/24/21	
Fluoranthene	**37000 D**	2100	530	5	03/29/21 20:06	3/24/21	
Fluorene	**790 DJ**	2100	390	5	03/29/21 20:06	3/24/21	
Indeno(1,2,3-cd)pyrene	**16000 D**	2100	680	5	03/29/21 20:06	3/24/21	
Naphthalene	2100 U	2100	400	5	03/29/21 20:06	3/24/21	
Phenanthrene	**14000 D**	2100	300	5	03/29/21 20:06	3/24/21	
Pyrene	**30000 D**	2100	350	5	03/29/21 20:06	3/24/21	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:04
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-4 10	**Units:**	ug/Kg
Lab Code:	R2102620-007	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	50	10 - 102	03/29/21 20:06	
Nitrobenzene-d5	52	10 - 95	03/29/21 20:06	
p-Terphenyl-d14	72	10 - 106	03/29/21 20:06	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:04
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-4 10	**Units:**	ug/Kg
Lab Code:	R2102620-007	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	840	U	840	140	2	03/26/21 19:29	3/24/21	
Acenaphthene	**590**	**J**	840	160	2	03/26/21 19:29	3/24/21	
Acenaphthylene	**280**	**J**	840	170	2	03/26/21 19:29	3/24/21	
Anthracene	**2100**		840	140	2	03/26/21 19:29	3/24/21	
Benz(a)anthracene	**13000**		840	130	2	03/26/21 19:29	3/24/21	
Benzo(a)pyrene	**21000**	**E**	840	230	2	03/26/21 19:29	3/24/21	
Benzo(b)fluoranthene	**27000**	**E**	840	140	2	03/26/21 19:29	3/24/21	
Benzo(g,h,i)perylene	**14000**		840	200	2	03/26/21 19:29	3/24/21	
Benzo(k)fluoranthene	**8700**		840	140	2	03/26/21 19:29	3/24/21	
Chrysene	**18000**	**E**	840	130	2	03/26/21 19:29	3/24/21	
Dibenz(a,h)anthracene	**2700**		840	190	2	03/26/21 19:29	3/24/21	
Fluoranthene	**26000**	**E**	840	210	2	03/26/21 19:29	3/24/21	
Fluorene	**710**	**J**	840	160	2	03/26/21 19:29	3/24/21	
Indeno(1,2,3-cd)pyrene	**14000**		840	270	2	03/26/21 19:29	3/24/21	
Naphthalene	840	U	840	160	2	03/26/21 19:29	3/24/21	
Phenanthrene	**12000**		840	120	2	03/26/21 19:29	3/24/21	
Pyrene	**22000**	**E**	840	140	2	03/26/21 19:29	3/24/21	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:04
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-4 10	**Units:**	ug/Kg
Lab Code:	R2102620-007	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	45	10 - 102	03/26/21 19:29	
Nitrobenzene-d5	48	10 - 95	03/26/21 19:29	
p-Terphenyl-d14	66	10 - 106	03/26/21 19:29	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:05
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-4 18	**Units:**	ug/Kg
Lab Code:	R2102620-008	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	370 U	370	62	1	03/26/21 14:34	3/24/21	
Acenaphthene	370 U	370	70	1	03/26/21 14:34	3/24/21	
Acenaphthylene	370 U	370	75	1	03/26/21 14:34	3/24/21	
Anthracene	370 U	370	62	1	03/26/21 14:34	3/24/21	
Benz(a)anthracene	**87 J**	370	55	1	03/26/21 14:34	3/24/21	
Benzo(a)pyrene	**120 J**	370	99	1	03/26/21 14:34	3/24/21	
Benzo(b)fluoranthene	**150 J**	370	62	1	03/26/21 14:34	3/24/21	
Benzo(g,h,i)perylene	**110 J**	370	86	1	03/26/21 14:34	3/24/21	
Benzo(k)fluoranthene	370 U	370	60	1	03/26/21 14:34	3/24/21	
Chrysene	**120 J**	370	55	1	03/26/21 14:34	3/24/21	
Dibenz(a,h)anthracene	370 U	370	81	1	03/26/21 14:34	3/24/21	
Fluoranthene	**240 J**	370	93	1	03/26/21 14:34	3/24/21	
Fluorene	370 U	370	70	1	03/26/21 14:34	3/24/21	
Indeno(1,2,3-cd)pyrene	370 U	370	120	1	03/26/21 14:34	3/24/21	
Naphthalene	370 U	370	70	1	03/26/21 14:34	3/24/21	
Phenanthrene	**110 J**	370	53	1	03/26/21 14:34	3/24/21	
Pyrene	**180 J**	370	62	1	03/26/21 14:34	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	29	10 - 102	03/26/21 14:34	
Nitrobenzene-d5	32	10 - 95	03/26/21 14:34	
p-Terphenyl-d14	60	10 - 106	03/26/21 14:34	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:45
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-5 21 DUP	**Units:**	ug/Kg
Lab Code:	R2102620-009	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	390 U	390	65	1	03/26/21 15:03	3/24/21	
Acenaphthene	390 U	390	74	1	03/26/21 15:03	3/24/21	
Acenaphthylene	390 U	390	80	1	03/26/21 15:03	3/24/21	
Anthracene	390 U	390	66	1	03/26/21 15:03	3/24/21	
Benz(a)anthracene	390 U	390	59	1	03/26/21 15:03	3/24/21	
Benzo(a)pyrene	390 U	390	110	1	03/26/21 15:03	3/24/21	
Benzo(b)fluoranthene	390 U	390	66	1	03/26/21 15:03	3/24/21	
Benzo(g,h,i)perylene	390 U	390	90	1	03/26/21 15:03	3/24/21	
Benzo(k)fluoranthene	390 U	390	64	1	03/26/21 15:03	3/24/21	
Chrysene	390 U	390	58	1	03/26/21 15:03	3/24/21	
Dibenz(a,h)anthracene	390 U	390	85	1	03/26/21 15:03	3/24/21	
Fluoranthene	390 U	390	99	1	03/26/21 15:03	3/24/21	
Fluorene	390 U	390	74	1	03/26/21 15:03	3/24/21	
Indeno(1,2,3-cd)pyrene	390 U	390	130	1	03/26/21 15:03	3/24/21	
Naphthalene	390 U	390	74	1	03/26/21 15:03	3/24/21	
Phenanthrene	390 U	390	56	1	03/26/21 15:03	3/24/21	
Pyrene	390 U	390	65	1	03/26/21 15:03	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	37	10 - 102	03/26/21 15:03	
Nitrobenzene-d5	41	10 - 95	03/26/21 15:03	
p-Terphenyl-d14	62	10 - 106	03/26/21 15:03	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:35
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-5 0.2	**Units:**	ug/Kg
Lab Code:	R2102620-010	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	370	U	370	62	1	03/26/21 19:57	3/24/21	
Acenaphthene	370	U	370	71	1	03/26/21 19:57	3/24/21	
Acenaphthylene	370	U	370	76	1	03/26/21 19:57	3/24/21	
Anthracene	**210**	**J**	370	63	1	03/26/21 19:57	3/24/21	
Benz(a)anthracene	**1800**		370	56	1	03/26/21 19:57	3/24/21	
Benzo(a)pyrene	**3300**		370	99	1	03/26/21 19:57	3/24/21	
Benzo(b)fluoranthene	**4100**		370	63	1	03/26/21 19:57	3/24/21	
Benzo(g,h,i)perylene	**2300**		370	86	1	03/26/21 19:57	3/24/21	
Benzo(k)fluoranthene	**1400**		370	61	1	03/26/21 19:57	3/24/21	
Chrysene	**2900**		370	55	1	03/26/21 19:57	3/24/21	
Dibenz(a,h)anthracene	**440**		370	81	1	03/26/21 19:57	3/24/21	
Fluoranthene	**5000**		370	94	1	03/26/21 19:57	3/24/21	
Fluorene	**80**	**J**	370	70	1	03/26/21 19:57	3/24/21	
Indeno(1,2,3-cd)pyrene	**2300**		370	120	1	03/26/21 19:57	3/24/21	
Naphthalene	370	U	370	70	1	03/26/21 19:57	3/24/21	
Phenanthrene	**1600**		370	53	1	03/26/21 19:57	3/24/21	
Pyrene	**3900**		370	62	1	03/26/21 19:57	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	42	10 - 102	03/26/21 19:57	
Nitrobenzene-d5	45	10 - 95	03/26/21 19:57	
p-Terphenyl-d14	62	10 - 106	03/26/21 19:57	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:38
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-5 6	**Units:**	ug/Kg
Lab Code:	R2102620-011	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	420 U	420	69	1	03/26/21 15:36	3/24/21	
Acenaphthene	420 U	420	79	1	03/26/21 15:36	3/24/21	
Acenaphthylene	420 U	420	85	1	03/26/21 15:36	3/24/21	
Anthracene	420 U	420	70	1	03/26/21 15:36	3/24/21	
Benz(a)anthracene	**280 J**	420	62	1	03/26/21 15:36	3/24/21	
Benzo(a)pyrene	**460**	420	120	1	03/26/21 15:36	3/24/21	
Benzo(b)fluoranthene	**570**	420	70	1	03/26/21 15:36	3/24/21	
Benzo(g,h,i)perylene	**430**	420	96	1	03/26/21 15:36	3/24/21	
Benzo(k)fluoranthene	**200 J**	420	68	1	03/26/21 15:36	3/24/21	
Chrysene	**430**	420	62	1	03/26/21 15:36	3/24/21	
Dibenz(a,h)anthracene	420 U	420	91	1	03/26/21 15:36	3/24/21	
Fluoranthene	**740**	420	110	1	03/26/21 15:36	3/24/21	
Fluorene	420 U	420	78	1	03/26/21 15:36	3/24/21	
Indeno(1,2,3-cd)pyrene	**380 J**	420	140	1	03/26/21 15:36	3/24/21	
Naphthalene	420 U	420	78	1	03/26/21 15:36	3/24/21	
Phenanthrene	**230 J**	420	59	1	03/26/21 15:36	3/24/21	
Pyrene	**580**	420	70	1	03/26/21 15:36	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	32	10 - 102	03/26/21 15:36	
Nitrobenzene-d5	33	10 - 95	03/26/21 15:36	
p-Terphenyl-d14	54	10 - 106	03/26/21 15:36	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:40
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-5 12	**Units:**	ug/Kg
Lab Code:	R2102620-012	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	410 U	410	68	1	03/26/21 16:05	3/24/21	
Acenaphthene	410 U	410	78	1	03/26/21 16:05	3/24/21	
Acenaphthylene	410 U	410	83	1	03/26/21 16:05	3/24/21	
Anthracene	410 U	410	69	1	03/26/21 16:05	3/24/21	
Benz(a)anthracene	**490**	410	61	1	03/26/21 16:05	3/24/21	
Benzo(a)pyrene	**830**	410	110	1	03/26/21 16:05	3/24/21	
Benzo(b)fluoranthene	**980**	410	69	1	03/26/21 16:05	3/24/21	
Benzo(g,h,i)perylene	**710**	410	95	1	03/26/21 16:05	3/24/21	
Benzo(k)fluoranthene	**360 J**	410	67	1	03/26/21 16:05	3/24/21	
Chrysene	**770**	410	61	1	03/26/21 16:05	3/24/21	
Dibenz(a,h)anthracene	**110 J**	410	89	1	03/26/21 16:05	3/24/21	
Fluoranthene	**1400**	410	110	1	03/26/21 16:05	3/24/21	
Fluorene	410 U	410	77	1	03/26/21 16:05	3/24/21	
Indeno(1,2,3-cd)pyrene	**660**	410	140	1	03/26/21 16:05	3/24/21	
Naphthalene	410 U	410	77	1	03/26/21 16:05	3/24/21	
Phenanthrene	**450**	410	58	1	03/26/21 16:05	3/24/21	
Pyrene	**1100**	410	69	1	03/26/21 16:05	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	32	10 - 102	03/26/21 16:05	
Nitrobenzene-d5	32	10 - 95	03/26/21 16:05	
p-Terphenyl-d14	52	10 - 106	03/26/21 16:05	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:45
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-5 21	**Units:**	ug/Kg
Lab Code:	R2102620-013	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	400 U	400	67	1	03/26/21 16:34	3/24/21	
Acenaphthene	400 U	400	76	1	03/26/21 16:34	3/24/21	
Acenaphthylene	400 U	400	82	1	03/26/21 16:34	3/24/21	
Anthracene	400 U	400	68	1	03/26/21 16:34	3/24/21	
Benz(a)anthracene	400 U	400	60	1	03/26/21 16:34	3/24/21	
Benzo(a)pyrene	400 U	400	110	1	03/26/21 16:34	3/24/21	
Benzo(b)fluoranthene	400 U	400	67	1	03/26/21 16:34	3/24/21	
Benzo(g,h,i)perylene	400 U	400	93	1	03/26/21 16:34	3/24/21	
Benzo(k)fluoranthene	400 U	400	65	1	03/26/21 16:34	3/24/21	
Chrysene	400 U	400	59	1	03/26/21 16:34	3/24/21	
Dibenz(a,h)anthracene	400 U	400	88	1	03/26/21 16:34	3/24/21	
Fluoranthene	400 U	400	110	1	03/26/21 16:34	3/24/21	
Fluorene	400 U	400	76	1	03/26/21 16:34	3/24/21	
Indeno(1,2,3-cd)pyrene	400 U	400	130	1	03/26/21 16:34	3/24/21	
Naphthalene	400 U	400	76	1	03/26/21 16:34	3/24/21	
Phenanthrene	400 U	400	57	1	03/26/21 16:34	3/24/21	
Pyrene	400 U	400	67	1	03/26/21 16:34	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	36	10 - 102	03/26/21 16:34	
Nitrobenzene-d5	40	10 - 95	03/26/21 16:34	
p-Terphenyl-d14	60	10 - 106	03/26/21 16:34	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:00
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-4 0-2	**Units:**	ug/Kg
Lab Code:	R2102620-014	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	9800	U	9800	1700	20	03/29/21 20:34	3/24/21	
Acenaphthene	9800	U	9800	1900	20	03/29/21 20:34	3/24/21	
Acenaphthylene	9800	U	9800	2000	20	03/29/21 20:34	3/24/21	
Anthracene	**6400**	**DJ**	9800	1700	20	03/29/21 20:34	3/24/21	
Benz(a)anthracene	**53000**	**D**	9800	1500	20	03/29/21 20:34	3/24/21	
Benzo(a)pyrene	**89000**	**D**	9800	2700	20	03/29/21 20:34	3/24/21	
Benzo(b)fluoranthene	**120000**	**D**	9800	1700	20	03/29/21 20:34	3/24/21	
Benzo(g,h,i)perylene	**60000**	**D**	9800	2300	20	03/29/21 20:34	3/24/21	
Benzo(k)fluoranthene	**42000**	**D**	9800	1600	20	03/29/21 20:34	3/24/21	
Chrysene	**91000**	**D**	9800	1500	20	03/29/21 20:34	3/24/21	
Dibenz(a,h)anthracene	**12000**	**D**	9800	2200	20	03/29/21 20:34	3/24/21	
Fluoranthene	**170000**	**D**	9800	2500	20	03/29/21 20:34	3/24/21	
Fluorene	**2000**	**DJ**	9800	1900	20	03/29/21 20:34	3/24/21	
Indeno(1,2,3-cd)pyrene	**62000**	**D**	9800	3200	20	03/29/21 20:34	3/24/21	
Naphthalene	9800	U	9800	1900	20	03/29/21 20:34	3/24/21	
Phenanthrene	**62000**	**D**	9800	1400	20	03/29/21 20:34	3/24/21	
Pyrene	**130000**	**D**	9800	1700	20	03/29/21 20:34	3/24/21	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:00
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-4 0-2	**Units:**	ug/Kg
Lab Code:	R2102620-014	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	0 *	10 - 102	03/29/21 20:34	D
Nitrobenzene-d5	0 *	10 - 95	03/29/21 20:34	D
p-Terphenyl-d14	0 *	10 - 106	03/29/21 20:34	D

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:00
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-4 0-2	**Units:**	ug/Kg
Lab Code:	R2102620-014	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	4900	U	4900	810	10	03/26/21 20:25	3/24/21	
Acenaphthene	**1300**	**J**	4900	930	10	03/26/21 20:25	3/24/21	
Acenaphthylene	4900	U	4900	990	10	03/26/21 20:25	3/24/21	
Anthracene	**6500**		4900	820	10	03/26/21 20:25	3/24/21	
Benz(a)anthracene	**53000**		4900	730	10	03/26/21 20:25	3/24/21	
Benzo(a)pyrene	**89000**		4900	1400	10	03/26/21 20:25	3/24/21	
Benzo(b)fluoranthene	**120000**	**E**	4900	820	10	03/26/21 20:25	3/24/21	
Benzo(g,h,i)perylene	**61000**		4900	1200	10	03/26/21 20:25	3/24/21	
Benzo(k)fluoranthene	**45000**		4900	800	10	03/26/21 20:25	3/24/21	
Chrysene	**88000**		4900	720	10	03/26/21 20:25	3/24/21	
Dibenz(a,h)anthracene	**12000**		4900	1100	10	03/26/21 20:25	3/24/21	
Fluoranthene	**140000**	**E**	4900	1300	10	03/26/21 20:25	3/24/21	
Fluorene	**2000**	**J**	4900	920	10	03/26/21 20:25	3/24/21	
Indeno(1,2,3-cd)pyrene	**61000**		4900	1600	10	03/26/21 20:25	3/24/21	
Naphthalene	4900	U	4900	920	10	03/26/21 20:25	3/24/21	
Phenanthrene	**58000**		4900	700	10	03/26/21 20:25	3/24/21	
Pyrene	**120000**	**E**	4900	820	10	03/26/21 20:25	3/24/21	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:00
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-4 0-2	**Units:**	ug/Kg
Lab Code:	R2102620-014	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	46	10 - 102	03/26/21 20:25	
Nitrobenzene-d5	47	10 - 95	03/26/21 20:25	
p-Terphenyl-d14	55	10 - 106	03/26/21 20:25	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:15
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-4 5	**Units:**	ug/Kg
Lab Code:	R2102620-015	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	840	U	840	140	2	03/29/21 21:02	3/24/21	
Acenaphthene	840	U	840	160	2	03/29/21 21:02	3/24/21	
Acenaphthylene	840	U	840	180	2	03/29/21 21:02	3/24/21	
Anthracene	**690**	**DJ**	840	150	2	03/29/21 21:02	3/24/21	
Benz(a)anthracene	**6200**	**D**	840	130	2	03/29/21 21:02	3/24/21	
Benzo(a)pyrene	**11000**	**D**	840	230	2	03/29/21 21:02	3/24/21	
Benzo(b)fluoranthene	**14000**	**D**	840	150	2	03/29/21 21:02	3/24/21	
Benzo(g,h,i)perylene	**6900**	**D**	840	200	2	03/29/21 21:02	3/24/21	
Benzo(k)fluoranthene	**4800**	**D**	840	140	2	03/29/21 21:02	3/24/21	
Chrysene	**9900**	**D**	840	130	2	03/29/21 21:02	3/24/21	
Dibenz(a,h)anthracene	**1400**	**D**	840	190	2	03/29/21 21:02	3/24/21	
Fluoranthene	**17000**	**D**	840	220	2	03/29/21 21:02	3/24/21	
Fluorene	**200**	**DJ**	840	160	2	03/29/21 21:02	3/24/21	
Indeno(1,2,3-cd)pyrene	**7200**	**D**	840	280	2	03/29/21 21:02	3/24/21	
Naphthalene	840	U	840	160	2	03/29/21 21:02	3/24/21	
Phenanthrene	**5700**	**D**	840	120	2	03/29/21 21:02	3/24/21	
Pyrene	**13000**	**D**	840	140	2	03/29/21 21:02	3/24/21	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:15
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-4 5	**Units:**	ug/Kg
Lab Code:	R2102620-015	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	45	10 - 102	03/29/21 21:02	
Nitrobenzene-d5	46	10 - 95	03/29/21 21:02	
p-Terphenyl-d14	56	10 - 106	03/29/21 21:02	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:15
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-4 5	**Units:**	ug/Kg
Lab Code:	R2102620-015	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	420	U	420	70	1	03/26/21 20:53	3/24/21	
Acenaphthene	**130**	**J**	420	80	1	03/26/21 20:53	3/24/21	
Acenaphthylene	**110**	**J**	420	86	1	03/26/21 20:53	3/24/21	
Anthracene	**660**		420	71	1	03/26/21 20:53	3/24/21	
Benz(a)anthracene	**5800**		420	63	1	03/26/21 20:53	3/24/21	
Benzo(a)pyrene	**9800**	**E**	420	120	1	03/26/21 20:53	3/24/21	
Benzo(b)fluoranthene	**13000**	**E**	420	71	1	03/26/21 20:53	3/24/21	
Benzo(g,h,i)perylene	**7000**		420	97	1	03/26/21 20:53	3/24/21	
Benzo(k)fluoranthene	**4400**		420	68	1	03/26/21 20:53	3/24/21	
Chrysene	**8800**	**E**	420	62	1	03/26/21 20:53	3/24/21	
Dibenz(a,h)anthracene	**1300**		420	92	1	03/26/21 20:53	3/24/21	
Fluoranthene	**12000**	**E**	420	110	1	03/26/21 20:53	3/24/21	
Fluorene	**200**	**J**	420	79	1	03/26/21 20:53	3/24/21	
Indeno(1,2,3-cd)pyrene	**6900**		420	140	1	03/26/21 20:53	3/24/21	
Naphthalene	420	U	420	79	1	03/26/21 20:53	3/24/21	
Phenanthrene	**4900**		420	60	1	03/26/21 20:53	3/24/21	
Pyrene	**10000**	**E**	420	70	1	03/26/21 20:53	3/24/21	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:15
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-4 5	**Units:**	ug/Kg
Lab Code:	R2102620-015	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	41	10 - 102	03/26/21 20:53	
Nitrobenzene-d5	42	10 - 95	03/26/21 20:53	
p-Terphenyl-d14	53	10 - 106	03/26/21 20:53	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:20
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-4 8	**Units:**	ug/Kg
Lab Code:	R2102620-016	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	890 U	890	150	2	03/29/21 21:29	3/24/21	
Acenaphthene	890 U	890	170	2	03/29/21 21:29	3/24/21	
Acenaphthylene	890 U	890	180	2	03/29/21 21:29	3/24/21	
Anthracene	**640 DJ**	890	150	2	03/29/21 21:29	3/24/21	
Benz(a)anthracene	**4900 D**	890	140	2	03/29/21 21:29	3/24/21	
Benzo(a)pyrene	**8100 D**	890	240	2	03/29/21 21:29	3/24/21	
Benzo(b)fluoranthene	**11000 D**	890	150	2	03/29/21 21:29	3/24/21	
Benzo(g,h,i)perylene	**5300 D**	890	210	2	03/29/21 21:29	3/24/21	
Benzo(k)fluoranthene	**3700 D**	890	150	2	03/29/21 21:29	3/24/21	
Chrysene	**7700 D**	890	140	2	03/29/21 21:29	3/24/21	
Dibenz(a,h)anthracene	**1000 D**	890	200	2	03/29/21 21:29	3/24/21	
Fluoranthene	**14000 D**	890	230	2	03/29/21 21:29	3/24/21	
Fluorene	**210 DJ**	890	170	2	03/29/21 21:29	3/24/21	
Indeno(1,2,3-cd)pyrene	**5200 D**	890	290	2	03/29/21 21:29	3/24/21	
Naphthalene	**890 DU**	890	170	2	03/29/21 21:29	3/24/21	
Phenanthrene	**4900 D**	890	130	2	03/29/21 21:29	3/24/21	
Pyrene	**11000 D**	890	150	2	03/29/21 21:29	3/24/21	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:20
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-4 8	**Units:**	ug/Kg
Lab Code:	R2102620-016	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	36	10 - 102	03/29/21 21:29	
Nitrobenzene-d5	37	10 - 95	03/29/21 21:29	
p-Terphenyl-d14	46	10 - 106	03/29/21 21:29	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:20
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-4 8	**Units:**	ug/Kg
Lab Code:	R2102620-016	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	450	U	450	74	1	03/26/21 21:21	3/24/21	
Acenaphthene	**120**	**J**	450	84	1	03/26/21 21:21	3/24/21	
Acenaphthylene	**91**	**J**	450	90	1	03/26/21 21:21	3/24/21	
Anthracene	**610**		450	75	1	03/26/21 21:21	3/24/21	
Benz(a)anthracene	**4400**		450	66	1	03/26/21 21:21	3/24/21	
Benzo(a)pyrene	**7600**		450	120	1	03/26/21 21:21	3/24/21	
Benzo(b)fluoranthene	**10000**	**E**	450	75	1	03/26/21 21:21	3/24/21	
Benzo(g,h,i)perylene	**5500**		450	110	1	03/26/21 21:21	3/24/21	
Benzo(k)fluoranthene	**3300**		450	72	1	03/26/21 21:21	3/24/21	
Chrysene	**7100**		450	66	1	03/26/21 21:21	3/24/21	
Dibenz(a,h)anthracene	**1000**		450	97	1	03/26/21 21:21	3/24/21	
Fluoranthene	**11000**	**E**	450	120	1	03/26/21 21:21	3/24/21	
Fluorene	**190**	**J**	450	84	1	03/26/21 21:21	3/24/21	
Indeno(1,2,3-cd)pyrene	**5300**		450	150	1	03/26/21 21:21	3/24/21	
Naphthalene	450	U	450	84	1	03/26/21 21:21	3/24/21	
Phenanthrene	**4400**		450	63	1	03/26/21 21:21	3/24/21	
Pyrene	**9100**	**E**	450	74	1	03/26/21 21:21	3/24/21	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:20
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-4 8	**Units:**	ug/Kg
Lab Code:	R2102620-016	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	33	10 - 102	03/26/21 21:21	
Nitrobenzene-d5	35	10 - 95	03/26/21 21:21	
p-Terphenyl-d14	43	10 - 106	03/26/21 21:21	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:30
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-4 18	**Units:**	ug/Kg
Lab Code:	R2102620-017	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	430 U	430	72	1	03/26/21 21:50	3/24/21	
Acenaphthene	**88 J**	430	82	1	03/26/21 21:50	3/24/21	
Acenaphthylene	430 U	430	88	1	03/26/21 21:50	3/24/21	
Anthracene	**420 J**	430	73	1	03/26/21 21:50	3/24/21	
Benz(a)anthracene	**3100**	430	65	1	03/26/21 21:50	3/24/21	
Benzo(a)pyrene	**5200**	430	120	1	03/26/21 21:50	3/24/21	
Benzo(b)fluoranthene	**6800**	430	73	1	03/26/21 21:50	3/24/21	
Benzo(g,h,i)perylene	**3800**	430	100	1	03/26/21 21:50	3/24/21	
Benzo(k)fluoranthene	**2300**	430	70	1	03/26/21 21:50	3/24/21	
Chrysene	**5000**	430	64	1	03/26/21 21:50	3/24/21	
Dibenz(a,h)anthracene	**690**	430	95	1	03/26/21 21:50	3/24/21	
Fluoranthene	**8700**	430	110	1	03/26/21 21:50	3/24/21	
Fluorene	**140 J**	430	82	1	03/26/21 21:50	3/24/21	
Indeno(1,2,3-cd)pyrene	**3800**	430	140	1	03/26/21 21:50	3/24/21	
Naphthalene	430 U	430	82	1	03/26/21 21:50	3/24/21	
Phenanthrene	**3200**	430	62	1	03/26/21 21:50	3/24/21	
Pyrene	**7100**	430	73	1	03/26/21 21:50	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	49	10 - 102	03/26/21 21:50	
Nitrobenzene-d5	51	10 - 95	03/26/21 21:50	
p-Terphenyl-d14	65	10 - 106	03/26/21 21:50	

General Chemistry

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
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Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 09:55
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-6 0-2	**Basis:**	As Received
Lab Code:	R2102620-001		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**80.7**	Percent	-	1	03/23/21 06:05	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 10:12
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-6 6	**Basis:**	As Received
Lab Code:	R2102620-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**77.2**	Percent	-	1	03/23/21 06:05	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 10:15
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-6 12	**Basis:**	As Received
Lab Code:	R2102620-003		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**79.2**	Percent	-	1	03/23/21 06:05	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 10:20
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-6 23	**Basis:**	As Received
Lab Code:	R2102620-004		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**79.7**	Percent	-	1	03/23/21 06:05	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:00
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-4 0-2	**Basis:**	As Received
Lab Code:	R2102620-005		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**75.3**	Percent	-	1	03/23/21 06:05	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:03
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-4 5	**Basis:**	As Received
Lab Code:	R2102620-006		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**73.3**	Percent	-	1	03/23/21 06:05	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:04
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-4 10	**Basis:**	As Received
Lab Code:	R2102620-007		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**78.3**	Percent	-	1	03/23/21 06:05	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:05
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-4 18	**Basis:**	As Received
Lab Code:	R2102620-008		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**88.8**	Percent	-	1	03/23/21 06:05	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:45
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-5 21 DUP	**Basis:**	As Received
Lab Code:	R2102620-009		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**83.4**	Percent	-	1	03/23/21 06:05	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:35
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-5 0.2	**Basis:**	As Received
Lab Code:	R2102620-010		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**88.4**	Percent	-	1	03/23/21 06:05	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:38
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-5 6	**Basis:**	As Received
Lab Code:	R2102620-011		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**78.1**	Percent	-	1	03/23/21 06:05	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:40
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-5 12	**Basis:**	As Received
Lab Code:	R2102620-012		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**78.6**	Percent	-	1	03/23/21 06:05	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:45
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-5 21	**Basis:**	As Received
Lab Code:	R2102620-013		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**82.3**	Percent	-	1	03/23/21 06:05	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:00
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-4 0-2	**Basis:**	As Received
Lab Code:	R2102620-014		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**66.7**	Percent	-	1	03/23/21 06:05	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:15
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-4 5	**Basis:**	As Received
Lab Code:	R2102620-015		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**78.6**	Percent	-	1	03/23/21 06:05	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:20
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-4 8	**Basis:**	As Received
Lab Code:	R2102620-016		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**73.9**	Percent	-	1	03/23/21 06:05	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:30
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-4 18	**Basis:**	As Received
Lab Code:	R2102620-017		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**76.1**	Percent	-	1	03/23/21 06:05	

QC Summary Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Leader Professional Services, Inc. **Service Request:** R2102620

Project: Former Bisonite/235.198A

Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D

Extraction Method: EPA 3546

Sample Name	Lab Code	2-Fluorobiphenyl 10-102	Nitrobenzene-d5 10-95	p-Terphenyl-d14 10-106
SSA-6 0-2	R2102620-001	43	43	64
SSA-6 6	R2102620-002	48	48	73
SSA-6 12	R2102620-003	31	34	53
SSA-6 23	R2102620-004	23	21	41
SSB-4 0-2	R2102620-005	47	49	62
SSB-4 0-2 DL	R2102620-005	51	55	66
SSB-4 5	R2102620-006	46	48	62
SSB-4 5 DL	R2102620-006	56	56	74
SSB-4 10	R2102620-007	45	48	66
SSB-4 10 DL	R2102620-007	50	52	72
SSB-4 18	R2102620-008	29	32	60
SSA-5 21 DUP	R2102620-009	37	41	62
SSA-5 0.2	R2102620-010	42	45	62
SSA-5 6	R2102620-011	32	33	54
SSA-5 12	R2102620-012	32	32	52
SSA-5 21	R2102620-013	36	40	60
SSA-4 0-2	R2102620-014	46	47	55
SSA-4 0-2 DL	R2102620-014	0*	0*	0*
SSA-4 5	R2102620-015	41	42	53
SSA-4 5 DL	R2102620-015	45	46	56
SSA-4 8	R2102620-016	33	35	43
SSA-4 8 DL	R2102620-016	36	37	46
SSA-4 18	R2102620-017	49	51	65
Method Blank	RQ2103000-03	64	65	101
Lab Control Sample	RQ2103000-04	60	57	84
Duplicate Lab Control Sample	RQ2103000-05	63	63	89
SSA-5 21 MS	RQ2103000-01	40	43	60
SSA-5 21 DMS	RQ2103000-02	43	47	62

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21
Sample Matrix:	Soil	**Date Received:**	03/19/21
		Date Analyzed:	03/26/21
		Date Extracted:	03/24/21

Duplicate Matrix Spike Summary
Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Sample Name:	SSA-5 21	**Units:**	ug/Kg
Lab Code:	R2102620-013	**Basis:**	Dry
Analysis Method:	8270D		
Prep Method:	EPA 3546		

		Matrix Spike			Duplicate Matrix Spike					
		RQ2103000-01			RQ2103000-02					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
2-Methylnaphthalene	410 U	1570	4100	38 *	1640	3950	42 *	50-86	4	30
Acenaphthene	410 U	1600	4100	39 *	1680	3950	42 *	52-91	4	30
Acenaphthylene	410 U	1790	4100	44 *	1880	3950	48 *	53-97	5	30
Anthracene	410 U	2140	4100	52 *	2210	3950	56 *	63-98	3	30
Benz(a)anthracene	410 U	2500	4100	61	2560	3950	65	59-99	2	30
Benzo(a)pyrene	410 U	3220	4100	79	3300	3950	84	71-129	2	30
Benzo(b)fluoranthene	410 U	2490	4100	61	2480	3950	63	59-101	<1	30
Benzo(g,h,i)perylene	410 U	3330	4100	81	3370	3950	85	67-113	<1	30
Benzo(k)fluoranthene	410 U	2570	4100	63 *	2630	3950	67	64-107	2	30
Chrysene	410 U	2570	4100	63	2640	3950	67	62-103	3	30
Dibenz(a,h)anthracene	410 U	2760	4100	67	2920	3950	74	58-119	6	30
Fluoranthene	410 U	2770	4100	68	2720	3950	69	59-104	2	30
Fluorene	410 U	1700	4100	42 *	1830	3950	46 *	54-93	7	30
Indeno(1,2,3-cd)pyrene	410 U	2940	4100	72	2990	3950	76	64-114	2	30
Naphthalene	410 U	1560	4100	38 *	1650	3950	42 *	48-85	5	30
Phenanthrene	410 U	2010	4100	49 *	2080	3950	53 *	60-95	3	30
Pyrene	410 U	2530	4100	62 *	2580	3950	65	65-107	2	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ2103000-03	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	330 U	330	55	1	03/25/21 18:17	3/24/21	
Acenaphthene	330 U	330	63	1	03/25/21 18:17	3/24/21	
Acenaphthylene	330 U	330	67	1	03/25/21 18:17	3/24/21	
Anthracene	330 U	330	55	1	03/25/21 18:17	3/24/21	
Benz(a)anthracene	330 U	330	49	1	03/25/21 18:17	3/24/21	
Benzo(a)pyrene	330 U	330	88	1	03/25/21 18:17	3/24/21	
Benzo(b)fluoranthene	330 U	330	55	1	03/25/21 18:17	3/24/21	
Benzo(g,h,i)perylene	330 U	330	76	1	03/25/21 18:17	3/24/21	
Benzo(k)fluoranthene	330 U	330	54	1	03/25/21 18:17	3/24/21	
Chrysene	330 U	330	49	1	03/25/21 18:17	3/24/21	
Dibenz(a,h)anthracene	330 U	330	72	1	03/25/21 18:17	3/24/21	
Fluoranthene	330 U	330	83	1	03/25/21 18:17	3/24/21	
Fluorene	330 U	330	62	1	03/25/21 18:17	3/24/21	
Indeno(1,2,3-cd)pyrene	330 U	330	110	1	03/25/21 18:17	3/24/21	
Naphthalene	330 U	330	62	1	03/25/21 18:17	3/24/21	
Phenanthrene	330 U	330	47	1	03/25/21 18:17	3/24/21	
Pyrene	330 U	330	55	1	03/25/21 18:17	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	64	10 - 102	03/25/21 18:17	
Nitrobenzene-d5	65	10 - 95	03/25/21 18:17	
p-Terphenyl-d14	101	10 - 106	03/25/21 18:17	

Client: Leader Professional Services, Inc. **Service Request:** R2102620
Project: Former Bisonite/235.198A **Date Analyzed:** 03/25/21
Sample Matrix: Soil

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Units:ug/Kg
Basis: Dry

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2103000-04			RQ2103000-05					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
2-Methylnaphthalene	8270D	1790	3290	54	1940	3280	59	50-86	8	30
Acenaphthene	8270D	2010	3290	61	2110	3280	64	52-91	5	30
Acenaphthylene	8270D	2210	3290	67	2320	3280	71	53-97	5	30
Anthracene	8270D	2590	3290	79	2650	3280	81	63-98	2	30
Benz(a)anthracene	8270D	2630	3290	80	2710	3280	82	59-99	3	30
Benzo(a)pyrene	8270D	3400	3290	103	3570	3280	109	71-129	5	30
Benzo(b)fluoranthene	8270D	2560	3290	78	2650	3280	81	59-101	3	30
Benzo(g,h,i)perylene	8270D	3280	3290	100	3430	3280	105	67-113	5	30
Benzo(k)fluoranthene	8270D	2760	3290	84	2910	3280	89	64-107	5	30
Chrysene	8270D	2680	3290	81	2770	3280	84	62-103	3	30
Dibenz(a,h)anthracene	8270D	2850	3290	87	2980	3280	91	58-119	4	30
Fluoranthene	8270D	2770	3290	84	2800	3280	85	59-104	1	30
Fluorene	8270D	2240	3290	68	2280	3280	70	54-93	2	30
Indeno(1,2,3-cd)pyrene	8270D	2930	3290	89	3050	3280	93	64-114	4	30
Naphthalene	8270D	1710	3290	52	1880	3280	57	48-85	9	30
Phenanthrene	8270D	2440	3290	74	2490	3280	76	60-95	2	30
Pyrene	8270D	2670	3290	81	2730	3280	83	65-107	2	30

General Chemistry

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project	Former Bisonite/235.198A	**Date Collected:**	03/18/21
Sample Matrix:	Soil	**Date Received:**	03/19/21
		Date Analyzed:	03/23/21

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	SSA-6 23	**Units:**	Percent
Lab Code:	R2102620-004	**Basis:**	As Received

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample R2102620-004DUP Result	Average	RPD	RPD Limit
Total Solids	ALS SOP	-	79.7	86.4	83.1	8	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project	Former Bisonite/235.198A	**Date Collected:**	03/18/21
Sample Matrix:	Soil	**Date Received:**	03/19/21
		Date Analyzed:	03/23/21

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	SSA-5 21	**Units:**	Percent
Lab Code:	R2102620-013	**Basis:**	As Received

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample R2102620-013DUP Result	Average	RPD	RPD Limit
Total Solids	ALS SOP	-	82.3	83.1	82.7	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Appendix B

Air Sample Laboratory Results

SGS GALSON

Mr. Alec Minavio
Leader Professional Services, Inc.
271 Marsh Road
Suite 2
Pittsford, NY 14534

April 13, 2021

Account# 14935

Login# L531971

Dear Alec Minavio:

Enclosed are the revised analytical results for the samples received by our laboratory on March 23, 2021. All samples on the chain of custody were received in good condition unless otherwise noted. Any additional observations will be noted on the chain of custody.

Please contact client services at (888) 432-5227 if you would like any additional information regarding this report. Thank you for using SGS Galson.

Sincerely,

SGS Galson

Lisa Swab

Lisa Swab
Laboratory Director

Enclosure(s)

SGS GALSON

Account: 14935
Login No.: L531971

COMMENT ANNEX

Please note that this revision cancels and supersedes L531971 (report reference:1) dated March 26, 2021 issued by SGS Galson.

Per your request, the report has been updated to include units in ug/m3.

Terms and Conditions & General Disclaimers

- This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.
- Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Analytical Disclaimers

- Unless otherwise noted within the report, all quality control results associated with the samples were within established control limits or did not impact reported results.
- Note: The findings recorded within this report were drawn from analysis of the sample(s) provided to the laboratory by the Client (or a third party acting at the Client's direction). The laboratory does not have control over the sampling process, including but not limited to the use of field equipment and collection media, as well as the sampling duration, collection volume or any other collection parameter used by the Client. The findings herein constitute no warranty of the sample's representativeness of any sampled environment, and strictly relate to the samples as they were presented to the laboratory. For recommended sampling collection parameters, please refer to the Sampling and Analysis Guide at www.sgsgalson.com.
- Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceding the final result column may have been rounded and therefore, if carried through the calculations, may not yield an identical final result to the one reported.
- The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).
- Unless otherwise noted within the report, results have not been blank corrected for any field blank or method blank data.

Accreditations SGS Galson holds a variety of accreditations and recognitions. Our quality management system conforms with the requirements of ISO/IEC 17025. Where applicable, samples may also be analyzed in accordance with the requirements of ELAP, NELAC, or LELAP under one of the state accrediting bodies listed below. Current Scopes of Accreditation can be viewed at http://www.sgsgalson.com in the accreditations section of the "About" page. To determine if the analyte tested falls under our scope of accreditation, please visit our website or call Client Services at (888) 432-5227.

National/International	Accreditation/Recognition	Lab ID#	Program/Sector
AIHA-LAP, LLC - IHLAP, ELLAP, EMLAP	ISO/IEC 17025 and USEPA NLLAP	Lab ID 100324	Industrial Hygiene, Environmental Lead, Environmental Microbiology

State	Accreditation/Recognition	Lab ID#	Program/Sector
New York (NYSDOH)	ELAP and NELAC (TNI)	Lab ID: 11626	Air Analysis, Solid and Hazardous Waste
New Jersey (NJDEP)	NELAC (TNI)	Lab ID: NY024	Air Analysis
Louisiana (LDEQ)	LELAP	Lab ID: 04083	Air Analysis, Solid Chemical Materials
Texas	Texas Dept. of Licensing and Regulation	Lab ID: 1042	Mold Analysis Laboratory license

Legend

< - Less than	mg - Milligrams	MDL - Method Detection Limit	ppb - Parts per Billion
> - Greater than	ug - Micrograms	NA - Not Applicable	ppm - Parts per Million
l - Liters	m3 - Cubic Meters	NS - Not Specified	ppbv - ppb Volume
LOQ - Limit of Quantitation	kg - Kilograms	ND - Not Detected	ppmv - ppm Volume
ft2 - Square Feet	cm2 - Square Centimeters	in2 - Square Inches	ng - Nanograms

SGS GALSON

6601 Kirkville Road
East Syracuse, NY 13057
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FAX: (315) 437-0571
www.sgsgalson.com

LELAP Lab ID #04083

LABORATORY ANALYSIS REPORT

Client : Leader Professional Services,
Site : NS
Project No. : 235.198
Date Sampled : 18-MAR-21
Date Received : 23-MAR-21

Account No.: 14935
Login No. : L531971

Date Analyzed : 24-MAR-21
Report ID : 1236521

TO15 List

Galson ID:			L531971-1		L531971-2		L531971-3	
Client ID:			IA-1		SS-1		SS-2	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Propylene	5.0	8.6	<5.0	<8.6	240	410	100	180
Freon-12	0.80	4.0	<0.80	<4.0	<0.80	<4.0	<0.80	<4.0
Chloromethane	0.80	1.7	<0.80	<1.7	<0.80	<1.7	<0.80	<1.7
Freon-114	0.80	5.6	<0.80	<5.6	<0.80	<5.6	<0.80	<5.6
Vinyl Chloride	0.80	2.0	<0.80	<2.0	<0.80	<2.0	<0.80	<2.0
1,3-Butadiene	0.80	1.8	<0.80	<1.8	<0.80	<1.8	<0.80	<1.8
n-Butane	0.80	1.9	2.4	5.6	570	1400	220	530
Bromomethane	0.80	3.1	<0.80	<3.1	<0.80	<3.1	<0.80	<3.1
Chloroethane	0.80	2.1	<0.80	<2.1	<0.80	<2.1	<0.80	<2.1
Acetonitrile	5.0	8.4	<5.0	<8.4	<5.0	<8.4	<5.0	<8.4
Vinyl Bromide	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5
Acrolein	0.80	1.8	<0.80	<1.8	<0.80	<1.8	<0.80	<1.8
Acetone	5.0	12	24	58	180	420	100	240

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : BLD

Approved by : JMR
Date : 13-APR-21

Supervisor: SAP

SGS GALSON

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East Syracuse, NY 13057
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www.sgsgalson.com

LELAP Lab ID #04083

LABORATORY ANALYSIS REPORT

Client : Leader Professional Services,
Site : NS
Project No. : 235.198
Date Sampled : 18-MAR-21
Date Received : 23-MAR-21

Account No.: 14935
Login No. : L531971

Date Analyzed : 24-MAR-21
Report ID : 1236521

TO15 List

Galson ID:			L531971-1		L531971-2		L531971-3	
Client ID:			IA-1		SS-1		SS-2	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Freon-11	0.80	4.5	<0.80	<4.5	<0.80	<4.5	<0.80	<4.5
Isopropyl Alcohol	5.0	12	<5.0	<12	13	33	17	42
Acrylonitrile	0.80	1.7	<0.80	<1.7	<0.80	<1.7	<0.80	<1.7
Pentane	0.80	2.4	2.0	5.8	260	760	110	320
Ethyl Bromide	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
1,1-Dichloroethene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
tert-Butyl Alcohol	5.0	15	<5.0	<15	<5.0	<15	<5.0	<15
Methylene Chloride	0.80	2.8	7.0	24	<0.80	<2.8	<0.80	<2.8
Freon-113	0.80	6.1	<0.80	<6.1	<0.80	<6.1	<0.80	<6.1
Carbon Disulfide	5.0	16	<5.0	<16	16	50	8.1	25
Allyl Chloride	0.80	2.5	<0.80	<2.5	<0.80	<2.5	<0.80	<2.5
trans-1,2-Dichloroethene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
1,1-Dichloroethane	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : BLD

Approved by : JMR
Date : 13-APR-21

Supervisor: SAP

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LELAP Lab ID #04083

LABORATORY ANALYSIS REPORT

Client : Leader Professional Services,
Site : NS
Project No. : 235.198
Date Sampled : 18-MAR-21
Date Received : 23-MAR-21

Account No.: 14935
Login No. : L531971

Date Analyzed : 24-MAR-21
Report ID : 1236521

TO15 List

Galson ID:			L531971-1		L531971-2		L531971-3	
Client ID:			IA-1		SS-1		SS-2	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Methyl tert-Butyl Ether	0.80	2.9	<0.80	<2.9	<0.80	<2.9	<0.80	<2.9
Vinyl Acetate	0.80	2.8	<0.80	<2.8	67	240	41	140
Methyl Ethyl Ketone	0.80	2.4	1.7	5.0	9.9	29	1.2	3.5
cis-1,2-Dichloroethylene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
Hexane	0.80	2.8	<0.80	<2.8	91	320	42	150
Ethyl Acetate	0.80	2.9	7.9	28	45	160	110	380
Chloroform	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
Tetrahydrofuran	0.80	2.4	<0.80	<2.4	<0.80	<2.4	<0.80	<2.4
1,2-Dichloroethane	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
1,1,1-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4	<0.80	<4.4
Benzene	0.80	2.6	<0.80	<2.6	1.8	5.7	0.90	2.8
Carbon Tetrachloride	0.80	5.0	<0.80	<5.0	<0.80	<5.0	<0.80	<5.0
Cyclohexane	0.80	2.8	<0.80	<2.8	12	41	8.8	30

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : BLD

Approved by : JMR
Date : 13-APR-21

Supervisor: SAP

SGS GALSON

LELAP Lab ID #04083

LABORATORY ANALYSIS REPORT

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Client : Leader Professional Services,
Site : NS
Project No. : 235.198
Date Sampled : 18-MAR-21
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Account No.: 14935
Login No. : L531971

Date Analyzed : 24-MAR-21
Report ID : 1236521

TO15 List

Galson ID:			L531971-1		L531971-2		L531971-3	
Client ID:			IA-1		SS-1		SS-2	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
1,2-Dichloropropane	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Bromodichloromethane	0.80	5.4	<0.80	<5.4	<0.80	<5.4	<0.80	<5.4
1,4-Dioxane	0.80	2.9	<0.80	<2.9	<0.80	<2.9	<0.80	<2.9
Trichloroethylene	0.80	4.3	<0.80	<4.3	<0.80	<4.3	<0.80	<4.3
2,2,4-Trimethylpentane	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Methyl Methacrylate	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
Heptane	0.80	3.3	<0.80	<3.3	20	83	6.1	25
cis-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
trans-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
1,1,2-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4	<0.80	<4.4
Methyl Isobutyl Ketone	0.80	3.3	<0.80	<3.3	1.6	6.4	<0.80	<3.3
Toluene	0.80	3.0	3.0	11	29	110	1.3	5.0
Methyl Butyl Ketone	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : BLD

Supervisor: SAP
Approved by : JMR
Date : 13-APR-21

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Project No. : 235.198
Date Sampled : 18-MAR-21
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Account No.: 14935
Login No. : L531971

Date Analyzed : 24-MAR-21
Report ID : 1236521

TO15 List

Galson ID:			L531971-1		L531971-2		L531971-3	
Client ID:			IA-1		SS-1		SS-2	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Dibromochloromethane	0.80	6.8	<0.80	<6.8	<0.80	<6.8	<0.80	<6.8
1,2-Dibromoethane	0.80	6.1	<0.80	<6.1	<0.80	<6.1	<0.80	<6.1
Tetrachloroethylene	0.80	5.4	<0.80	<5.4	<0.80	<5.4	<0.80	<5.4
Chlorobenzene	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Ethylbenzene	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5
m & p-Xylene	1.6	6.9	<1.6	<6.9	<1.6	<6.9	<1.6	<6.9
Bromoform	0.80	8.3	<0.80	<8.3	<0.80	<8.3	<0.80	<8.3
Styrene	0.80	3.4	<0.80	<3.4	<0.80	<3.4	<0.80	<3.4
1,1,2,2-Tetrachloroethane	0.80	5.5	<0.80	<5.5	<0.80	<5.5	<0.80	<5.5
o-Xylene	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5
Nonane	0.80	4.2	<0.80	<4.2	10	54	<0.80	<4.2
Cumene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
2-Chlorotoluene	0.80	4.1	<0.80	<4.1	<0.80	<4.1	<0.80	<4.1

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : BLD

Approved by : JMR
Date : 13-APR-21

Supervisor: SAP

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LELAP Lab ID #04083

LABORATORY ANALYSIS REPORT

Client	: Leader Professional Services,	Account No.:	14935
Site	: NS	Login No.	: L531971
Project No.	: 235.198		
Date Sampled	: 18-MAR-21	Date Analyzed	: 24-MAR-21
Date Received	: 23-MAR-21	Report ID	: 1236521

TO15 List

Galson ID:			L531971-1		L531971-2		L531971-3	
Client ID:			IA-1		SS-1		SS-2	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
n-Propylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
4-Ethyltoluene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
1,3,5-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
1,2,4-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
Benzyl Chloride	0.80	4.1	<0.80	<4.1	<0.80	<4.1	<0.80	<4.1
1,3-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
1,4-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
1,2-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
Naphthalene	0.80	4.2	<0.80	<4.2	<0.80	<4.2	<0.80	<4.2

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : BLD

Supervisor: SAP
Approved by : JMR
Date : 13-APR-21

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Report ID : 1236521

TO15 List

Galson ID:			L531971-4		L531971-5	
Client ID:			IA-2		OA-1	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3
Propylene	5.0	8.6	<5.0	<8.6	<5.0	<8.6
Freon-12	0.80	4.0	<0.80	<4.0	<0.80	<4.0
Chloromethane	0.80	1.7	<0.80	<1.7	<0.80	<1.7
Freon-114	0.80	5.6	<0.80	<5.6	<0.80	<5.6
Vinyl Chloride	0.80	2.0	<0.80	<2.0	<0.80	<2.0
1,3-Butadiene	0.80	1.8	<0.80	<1.8	<0.80	<1.8
n-Butane	0.80	1.9	2.0	4.7	<0.80	<1.9
Bromomethane	0.80	3.1	<0.80	<3.1	<0.80	<3.1
Chloroethane	0.80	2.1	<0.80	<2.1	<0.80	<2.1
Acetonitrile	5.0	8.4	<5.0	<8.4	<5.0	<8.4
Vinyl Bromide	0.80	3.5	<0.80	<3.5	<0.80	<3.5
Acrolein	0.80	1.8	<0.80	<1.8	<0.80	<1.8
Acetone	5.0	12	20	49	<5.0	<12

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : BLD

Approved by : JMR
Date : 13-APR-21

Supervisor: SAP

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LABORATORY ANALYSIS REPORT

Client : Leader Professional Services, Account No.: 14935
Site : NS Login No. : L531971
Project No. : 235.198
Date Sampled : 18-MAR-21 Date Analyzed : 24-MAR-21
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TO15 List

Galson ID:			L531971-4		L531971-5	
Client ID:			IA-2		OA-1	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3
Freon-11	0.80	4.5	<0.80	<4.5	<0.80	<4.5
Isopropyl Alcohol	5.0	12	<5.0	<12	<5.0	<12
Acrylonitrile	0.80	1.7	<0.80	<1.7	<0.80	<1.7
Pentane	0.80	2.4	1.2	3.6	<0.80	<2.4
Ethyl Bromide	0.80	3.6	<0.80	<3.6	<0.80	<3.6
1,1-Dichloroethene	0.80	3.2	<0.80	<3.2	<0.80	<3.2
tert-Butyl Alcohol	5.0	15	<5.0	<15	<5.0	<15
Methylene Chloride	0.80	2.8	4.6	16	<0.80	<2.8
Freon-113	0.80	6.1	<0.80	<6.1	<0.80	<6.1
Carbon Disulfide	5.0	16	<5.0	<16	<5.0	<16
Allyl Chloride	0.80	2.5	<0.80	<2.5	<0.80	<2.5
trans-1,2-Dichloroethene	0.80	3.2	<0.80	<3.2	<0.80	<3.2
1,1-Dichloroethane	0.80	3.2	<0.80	<3.2	<0.80	<3.2

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS Supervisor: SAP
Collection Media : Mini Can Approved by : JMR
Submitted by : BLD Date : 13-APR-21

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TO15 List

Galson ID:			L531971-4		L531971-5	
Client ID:			IA-2		OA-1	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3
Methyl tert-Butyl Ether	0.80	2.9	<0.80	<2.9	<0.80	<2.9
Vinyl Acetate	0.80	2.8	<0.80	<2.8	<0.80	<2.8
Methyl Ethyl Ketone	0.80	2.4	1.4	4.2	<0.80	<2.4
cis-1,2-Dichloroethylene	0.80	3.2	<0.80	<3.2	<0.80	<3.2
Hexane	0.80	2.8	<0.80	<2.8	<0.80	<2.8
Ethyl Acetate	0.80	2.9	7.4	27	1.6	5.7
Chloroform	0.80	3.9	<0.80	<3.9	<0.80	<3.9
Tetrahydrofuran	0.80	2.4	<0.80	<2.4	<0.80	<2.4
1,2-Dichloroethane	0.80	3.2	<0.80	<3.2	<0.80	<3.2
1,1,1-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4
Benzene	0.80	2.6	<0.80	<2.6	<0.80	<2.6
Carbon Tetrachloride	0.80	5.0	<0.80	<5.0	<0.80	<5.0
Cyclohexane	0.80	2.8	<0.80	<2.8	<0.80	<2.8

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : BLD

Approved by : JMR
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TO15 List

Galson ID:			L531971-4		L531971-5	
Client ID:			IA-2		OA-1	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3
1,2-Dichloropropane	0.80	3.7	<0.80	<3.7	<0.80	<3.7
Bromodichloromethane	0.80	5.4	<0.80	<5.4	<0.80	<5.4
1,4-Dioxane	0.80	2.9	<0.80	<2.9	<0.80	<2.9
Trichloroethylene	0.80	4.3	<0.80	<4.3	<0.80	<4.3
2,2,4-Trimethylpentane	0.80	3.7	<0.80	<3.7	<0.80	<3.7
Methyl Methacrylate	0.80	3.3	<0.80	<3.3	<0.80	<3.3
Heptane	0.80	3.3	<0.80	<3.3	<0.80	<3.3
cis-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6
trans-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6
1,1,2-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4
Methyl Isobutyl Ketone	0.80	3.3	<0.80	<3.3	<0.80	<3.3
Toluene	0.80	3.0	2.2	8.4	<0.80	<3.0
Methyl Butyl Ketone	0.80	3.3	<0.80	<3.3	<0.80	<3.3

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Collection Media : Mini Can
Submitted by : BLD

Approved by : JMR
Date : 13-APR-21

Supervisor: SAP

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TO15 List

Galson ID:			L531971-4		L531971-5	
Client ID:			IA-2		OA-1	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3
Dibromochloromethane	0.80	6.8	<0.80	<6.8	<0.80	<6.8
1,2-Dibromoethane	0.80	6.1	<0.80	<6.1	<0.80	<6.1
Tetrachloroethylene	0.80	5.4	<0.80	<5.4	<0.80	<5.4
Chlorobenzene	0.80	3.7	<0.80	<3.7	<0.80	<3.7
Ethylbenzene	0.80	3.5	<0.80	<3.5	<0.80	<3.5
m & p-Xylene	1.6	6.9	<1.6	<6.9	<1.6	<6.9
Bromoform	0.80	8.3	<0.80	<8.3	<0.80	<8.3
Styrene	0.80	3.4	<0.80	<3.4	<0.80	<3.4
1,1,2,2-Tetrachloroethane	0.80	5.5	<0.80	<5.5	<0.80	<5.5
o-Xylene	0.80	3.5	<0.80	<3.5	<0.80	<3.5
Nonane	0.80	4.2	<0.80	<4.2	<0.80	<4.2
Cumene	0.80	3.9	<0.80	<3.9	<0.80	<3.9
2-Chlorotoluene	0.80	4.1	<0.80	<4.1	<0.80	<4.1

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS Supervisor: SAP
Collection Media : Mini Can Approved by : JMR
Submitted by : BLD Date : 13-APR-21

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TO15 List

Galson ID:			L531971-4		L531971-5	
Client ID:			IA-2		OA-1	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3
n-Propylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9
4-Ethyltoluene	0.80	3.9	<0.80	<3.9	<0.80	<3.9
1,3,5-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9
1,2,4-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9
Benzyl Chloride	0.80	4.1	<0.80	<4.1	<0.80	<4.1
1,3-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8
1,4-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8
1,2-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8
Naphthalene	0.80	4.2	<0.80	<4.2	<0.80	<4.2

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : BLD

Approved by : JMR
Date : 13-APR-21

Supervisor: SAP

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LABORATORY FOOTNOTE REPORT

Client Name : Leader Professional Services, Inc.
Site :
Project No. : 235.198

Date Sampled : 18-MAR-21
Date Received: 23-MAR-21
Date Analyzed: 24-MAR-21

Account No.: 14935
Login No. : L531971

L531971 (Report ID: 1236521):
NYSDOH does not offer a certification for the following compounds:
Propylene, Ethyl Acetate, Tetrahydrofuran, Methyl n-Butyl Ketone, 4-Ethyl Toluene, n-Butane, Pentane, Ethyl Bromide, Nonane, and n-Propylbenzene.
SOPs: in-vocs(40)

L531971-1-4 (Report ID: 1236521):
Acetone results may be biased high due to co-elution with 2-methylbutane.

L531971-2-3 (Report ID: 1236521):
Propylene results may be biased high due to co-elution with Propane.
Vinyl Acetate results may be biased high due to co-elution with 2-methylpentane.

L531971 (Report ID: 1236521):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated accuracy applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process. The accuracy is based solely on spike recovery data from internal quality control samples. Where N/A appears below, insufficient data is available to provide statistical accuracy and mean recovery values for the associated analyte.

Parameter	Accuracy	Mean Recovery
1,1,2,2-Tetrachloroethane	+/-13.1%	102%
1,1,2-Trichloroethane	+/-10.9%	101%
1,1-Dichloroethane	+/-13.1%	99.7%
1,1-Dichloroethene	+/-13.5%	102%
1,2,4-Trimethylbenzene	+/-14.6%	108%
1,2-Dibromoethane	+/-12.9%	103%
1,2-Dichlorobenzene	+/-12.2%	105%
1,2-Dichloroethane	+/-14.9%	102%
1,2-Dichloropropane	+/-13.1%	99.7%
1,3,5-Trimethylbenzene	+/-13.1%	105%
1,3-Dichlorobenzene	+/-12.3%	104%
1,4-Dichlorobenzene	+/-13.6%	104%
2,2,4-Trimethylpentane	+/-13.9%	102%
2-Chlorotoluene	+/-13.1%	104%
4-Ethyltoluene	+/-14%	106%
Acrolein	+/-17.1%	100%
Acrylonitrile	+/-14.2%	99%
Allyl Chloride	+/-16.4%	101%
Acetonitrile	+/-23%	103%
Acetone	+/-15.4%	102%
Bromodichloromethane	+/-11.3%	103%
Bromoform	+/-14.1%	107%
1,3-Butadiene	+/-17.1%	100%

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LABORATORY FOOTNOTE REPORT

Client Name : Leader Professional Services, Inc.
Site :
Project No. : 235.198

Date Sampled : 18-MAR-21
Date Received: 23-MAR-21
Date Analyzed: 24-MAR-21

Account No.: 14935
Login No. : L531971

n-Butane	+/-19.2%	99%
Benzene	+/-11.6%	100%
Benzyl Chloride	+/-15.6%	113%
Carbon Disulfide	+/-12.7%	99.7%
Carbon Tetrachloride	+/-13.4%	104%
cis-1,2-Dichloroethylene	+/-13.7%	101%
cis-1,3-Dichloropropene	+/-13.2%	104%
Chlorobenzene	+/-12.4%	100%
Dibromochloromethane	+/-12.9%	105%
Chloroform	+/-11.8%	100%
Cumene	+/-13.1%	104%
Cyclohexane	+/-14.5%	101%
1,4-Dioxane	+/-13.3%	104%
Ethyl Acetate	+/-16.2%	102%
Ethylbenzene	+/-14%	104%
Chloroethane	+/-19.3%	99.3%
Ethyl Bromide	+/-11.4%	99.5%
Freon-11	+/-16.7%	103%
Freon-113	+/-11.3%	99.9%
Freon-114	+/-14.3%	102%
Freon-12	+/-14.8%	104%
Heptane	+/-16.2%	102%
Isopropyl Alcohol	+/-15.4%	103%
1,1,1-Trichloroethane	+/-13.1%	103%
Bromomethane	+/-12.7%	99.2%
Chloromethane	+/-17.5%	98.6%
Methylene Chloride	+/-12.3%	97.6%
Methyl Ethyl Ketone	+/-15.9%	101%
Methyl Methacrylate	+/-15.6%	104%
Methyl Isobutyl Ketone	+/-18.1%	103%
Methyl Butyl Ketone	+/-18.8%	107%
m & p-Xylene	+/-13.2%	103%
Methyl tert-Butyl Ether	+/-14.6%	102%
Naphthalene	+/-20.2%	114%
Hexane	+/-15.2%	100%
Nonane	+/-15.7%	102%
n-Propylbenzene	+/-12.8%	104%
o-Xylene	+/-13.2%	104%
Propylene	+/-16.8%	101%
Pentane	+/-16.5%	98.6%
Styrene	+/-14.8%	106%
Trichloroethylene	+/-11.1%	102%
tert-Butyl Alcohol	+/-13.8%	103%
Tetrachloroethylene	+/-12%	102%
Tetrahydrofuran	+/-18.7%	102%

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LABORATORY FOOTNOTE REPORT

Client Name : Leader Professional Services, Inc.
Site :
Project No. : 235.198

Date Sampled : 18-MAR-21
Date Received: 23-MAR-21
Date Analyzed: 24-MAR-21

Account No.: 14935
Login No. : L531971

Toluene	+/-14.3%	102%
trans-1,2-Dichloroethene	+/-13.8%	101%
trans-1,3-Dichloropropene	+/-13.7%	106%
Vinyl Acetate	+/-17.1%	102%
Vinyl Bromide	+/-14.5%	102%
Vinyl Chloride	+/-15.2%	100%

Sample: WG497676-6 **Spikelot:** IH702388

QC Type: CCV **Raw File:**

Analysis date 03/24/21 10:20:00 **Approval Status:** YES

Instrument: MS J **Samp Join ID:** SJ12803015

Parameter	Found	True	Rec.	Limits	DE Rec.	Limits	RPD	Limits
Propylene	51.853	50	104	70.0 to 130.				
Freon-12	51.956	50	104	70.0 to 130.				
Chloromethane	55.075	50	110	70.0 to 130.				
Freon-114	52.7	50	105	70.0 to 130.				
Vinyl Chloride	53.179	50	106	70.0 to 130.				
1,3-Butadiene	53.944	50	108	70.0 to 130.				
n-Butane	53.178	50	106	70.0 to 130.				
Bromomethane	51.422	50	103	70.0 to 130.				
Chloroethane	53.578	50	107	70.0 to 130.				
Acetonitrile	50.904	50	102	70.0 to 130.				
Vinyl Bromide	51.576	50	103	70.0 to 130.				
Acrolein	51.81	50	104	70.0 to 130.				
Acetone	51.033	50	102	70.0 to 130.				
Freon-11	51.993	50	104	70.0 to 130.				
Isopropyl Alcohol	53.252	50	107	70.0 to 130.				
Acrylonitrile	52.183	50	104	70.0 to 130.				
Pentane	52.136	50	104	70.0 to 130.				
Ethyl Bromide	50.96	50	102	70.0 to 130.				
1,1-Dichloroethene	51.836	50	104	70.0 to 130.				
tert-Butyl Alcohol	52.574	50	105	70.0 to 130.				
Methylene Chloride	49.17	50	98.3	70.0 to 130.				
Freon-113	50.676	50	101	70.0 to 130.				
Carbon Disulfide	50.695	50	101	70.0 to 130.				
Allyl Chloride	51.817	50	104	70.0 to 130.				
trans-1,2-Dichloroethene	51.57	50	103	70.0 to 130.				
1,1-Dichloroethane	51.226	50	102	70.0 to 130.				
Methyl tert-Butyl Ether	51.042	50	102	70.0 to 130.				
Vinyl Acetate	51.764	50	104	70.0 to 130.				
Methyl Ethyl Ketone	51.822	50	104	70.0 to 130.				
cis-1,2-Dichloroethylene	52.077	50	104	70.0 to 130.				
Hexane	51.931	50	104	70.0 to 130.				
Ethyl Acetate	53.578	50	107	70.0 to 130.				
Chloroform	51.48	50	103	70.0 to 130.				
Tetrahydrofuran	51.756	50	104	70.0 to 130.				
1,2-Dichloroethane	52.149	50	104	70.0 to 130.				
1,1,1-Trichloroethane	51.747	50	103	70.0 to 130.				
Benzene	50.539	50	101	70.0 to 130.				

Sample: WG497676-6 **Spikelot:** IH702388

QC Type: CCV **Raw File:**

Analysis date 03/24/21 10:20:00 **Approval Status:** YES

Instrument: MS J **Samp Join ID:** SJ12803015

Parameter	Found	True	Rec.	Limits	DE Rec. Limits	RPD	Limits
Carbon Tetrachloride	52.366	50	105	70.0 to 130.			
Cyclohexane	51.558	50	103	70.0 to 130.			
1,2-Dichloropropane	50.674	50	101	70.0 to 130.			
Bromodichloromethane	52.068	50	104	70.0 to 130.			
1,4-Dioxane	52.728	50	105	70.0 to 130.			
Trichloroethylene	51.791	50	104	70.0 to 130.			
2,2,4-Trimethylpentane	51.615	50	103	70.0 to 130.			
Methyl Methacrylate	52.973	50	106	70.0 to 130.			
Heptane	52.573	50	105	70.0 to 130.			
cis-1,3-Dichloropropene	52.147	50	104	70.0 to 130.			
trans-1,3-Dichloropropene	52.757	50	106	70.0 to 130.			
1,1,2-Trichloroethane	51.081	50	102	70.0 to 130.			
Methyl Isobutyl Ketone	51.337	50	103	70.0 to 130.			
Toluene	50.256	50	101	70.0 to 130.			
Methyl Butyl Ketone	54.327	50	109	70.0 to 130.			
Dibromochloromethane	52.68	50	105	70.0 to 130.			
1,2-Dibromoethane	51.59	50	103	70.0 to 130.			
Tetrachloroethylene	51.255	50	103	70.0 to 130.			
Chlorobenzene	50.608	50	101	70.0 to 130.			
Ethylbenzene	51.025	50	102	70.0 to 130.			
m & p-Xylene	102.772	100	103	70.0 to 130.			
Bromoform	53.182	50	106	70.0 to 130.			
Styrene	51.918	50	104	70.0 to 130.			
1,1,2,2-Tetrachloroethane	52.295	50	105	70.0 to 130.			
o-Xylene	52.419	50	105	70.0 to 130.			
Nonane	52.793	50	106	70.0 to 130.			
Cumene	51.766	50	104	70.0 to 130.			
2-Chlorotoluene	52.332	50	105	70.0 to 130.			
n-Propylbenzene	52.408	50	105	70.0 to 130.			
4-Ethyltoluene	52.825	50	106	70.0 to 130.			
1,3,5-Trimethylbenzene	52.695	50	105	70.0 to 130.			
1,2,4-Trimethylbenzene	53.551	50	107	70.0 to 130.			
Benzyl Chloride	56.025	50	112	70.0 to 130.			
1,3-Dichlorobenzene	53.413	50	107	70.0 to 130.			
1,4-Dichlorobenzene	52.614	50	105	70.0 to 130.			
1,2-Dichlorobenzene	54.371	50	109	70.0 to 130.			
Naphthalene	56.462	50	113	70.0 to 130.			

Sample: WG497676-2 **Spikelot:** IH702523

QC Type: LCS **Raw File:**

Analysis date 03/24/21 11:00:00 **Approval Status:** YES

Instrument: MS J **Samp Join ID:** SJ12803016

Parameter	Found	True	Rec.	Limits	DE Rec. Limits	RPD	Limits
Propylene	52.056	50	104	70.0 to 130.			
Freon-12	52.098	50	104	70.0 to 130.			
Chloromethane	55.541	50	111	70.0 to 130.			
Freon-114	53.736	50	107	70.0 to 130.			
Vinyl Chloride	54.434	50	109	70.0 to 130.			
1,3-Butadiene	55.526	50	111	70.0 to 130.			
n-Butane	54.258	50	109	70.0 to 130.			
Bromomethane	51.818	50	104	70.0 to 130.			
Chloroethane	54.61	50	109	70.0 to 130.			
Acetonitrile	51.488	50	103	70.0 to 130.			
Vinyl Bromide	51.525	50	103	70.0 to 130.			
Acrolein	51.667	50	103	70.0 to 130.			
Acetone	50.383	50	101	70.0 to 130.			
Freon-11	51.298	50	103	70.0 to 130.			
Isopropyl Alcohol	53.4	50	107	70.0 to 130.			
Acrylonitrile	52.045	50	104	70.0 to 130.			
Pentane	51.7	50	103	70.0 to 130.			
Ethyl Bromide	51.265	50	103	70.0 to 130.			
1,1-Dichloroethene	51.526	50	103	70.0 to 130.			
tert-Butyl Alcohol	52.343	50	105	70.0 to 130.			
Methylene Chloride	49.278	50	98.6	70.0 to 130.			
Freon-113	50.785	50	102	70.0 to 130.			
Carbon Disulfide	50.882	50	102	70.0 to 130.			
Allyl Chloride	50.87	50	102	70.0 to 130.			
trans-1,2-Dichloroethene	51.727	50	103	70.0 to 130.			
1,1-Dichloroethane	51.198	50	102	70.0 to 130.			
Methyl tert-Butyl Ether	51.334	50	103	70.0 to 130.			
Vinyl Acetate	51.841	50	104	70.0 to 130.			
Methyl Ethyl Ketone	51.746	50	103	70.0 to 130.			
cis-1,2-Dichloroethylene	51.636	50	103	70.0 to 130.			
Hexane	51.571	50	103	70.0 to 130.			
Ethyl Acetate	52.221	50	104	70.0 to 130.			
Chloroform	50.731	50	101	70.0 to 130.			
Tetrahydrofuran	51.509	50	103	70.0 to 130.			
1,2-Dichloroethane	51.562	50	103	70.0 to 130.			
1,1,1-Trichloroethane	51.952	50	104	70.0 to 130.			
Benzene	50.512	50	101	70.0 to 130.			

Sample: WG497676-2 **Spikelot:** IH702523

QC Type: LCS **Raw File:**

Analysis date 03/24/21 11:00:00 **Approval Status:** YES

Instrument: MS J **Samp Join ID:** SJ12803016

Parameter	Found	True	Rec.	Limits	DE Rec. Limits	RPD	Limits
Carbon Tetrachloride	51.854	50	104	70.0 to 130.			
Cyclohexane	52.296	50	105	70.0 to 130.			
1,2-Dichloropropane	51.188	50	102	70.0 to 130.			
Bromodichloromethane	51.918	50	104	70.0 to 130.			
1,4-Dioxane	53.954	50	108	70.0 to 130.			
Trichloroethylene	52.136	50	104	70.0 to 130.			
2,2,4-Trimethylpentane	52.276	50	105	70.0 to 130.			
Methyl Methacrylate	53.784	50	108	70.0 to 130.			
Heptane	52.114	50	104	70.0 to 130.			
cis-1,3-Dichloropropene	52.765	50	106	70.0 to 130.			
trans-1,3-Dichloropropene	53.108	50	106	70.0 to 130.			
1,1,2-Trichloroethane	51.544	50	103	70.0 to 130.			
Methyl Isobutyl Ketone	52.139	50	104	70.0 to 130.			
Toluene	50.982	50	102	70.0 to 130.			
Methyl Butyl Ketone	54.875	50	110	70.0 to 130.			
Dibromochloromethane	53.041	50	106	70.0 to 130.			
1,2-Dibromoethane	51.668	50	103	70.0 to 130.			
Tetrachloroethylene	51.409	50	103	70.0 to 130.			
Chlorobenzene	51.605	50	103	70.0 to 130.			
Ethylbenzene	51.731	50	103	70.0 to 130.			
m & p-Xylene	103.487	100	103	70.0 to 130.			
Bromoform	53.991	50	108	70.0 to 130.			
Styrene	52.616	50	105	70.0 to 130.			
1,1,2,2-Tetrachloroethane	52.693	50	105	70.0 to 130.			
o-Xylene	52.501	50	105	70.0 to 130.			
Nonane	53.085	50	106	70.0 to 130.			
Cumene	52.803	50	106	70.0 to 130.			
2-Chlorotoluene	52.841	50	106	70.0 to 130.			
n-Propylbenzene	52.525	50	105	70.0 to 130.			
4-Ethyltoluene	53.036	50	106	70.0 to 130.			
1,3,5-Trimethylbenzene	52.855	50	106	70.0 to 130.			
1,2,4-Trimethylbenzene	53.482	50	107	70.0 to 130.			
Benzyl Chloride	57.322	50	115	70.0 to 130.			
1,3-Dichlorobenzene	53.539	50	107	70.0 to 130.			
1,4-Dichlorobenzene	52.523	50	105	70.0 to 130.			
1,2-Dichlorobenzene	53.732	50	107	70.0 to 130.			
Naphthalene	59.294	50	119	70.0 to 130.			

Sample: WG497676-3 **Spikelot:** IH702523

QC Type: LCSD **Raw File:**

Analysis date 03/24/21 11:40:00 **Approval Status:** YES

Instrument: MS J **Samp Join ID:** SJ12803017

Parameter	Found	True	Rec.	Limits	DE Rec. Limits	RPD	Limits
Propylene	50.756	50	102	70.0 to 130.		2.53	-25 to 25.0
Freon-12	51.388	50	103	70.0 to 130.		1.37	-25 to 25.0
Chloromethane	55.083	50	110	70.0 to 130.		.828	-25 to 25.0
Freon-114	53.312	50	107	70.0 to 130.		.792	-25 to 25.0
Vinyl Chloride	53.404	50	107	70.0 to 130.		1.91	-25 to 25.0
1,3-Butadiene	53.164	50	106	70.0 to 130.		4.35	-25 to 25.0
n-Butane	51.998	50	104	70.0 to 130.		4.25	-25 to 25.0
Bromomethane	50.872	50	102	70.0 to 130.		1.84	-25 to 25.0
Chloroethane	53.615	50	107	70.0 to 130.		1.84	-25 to 25.0
Acetonitrile	50.373	50	101	70.0 to 130.		2.19	-25 to 25.0
Vinyl Bromide	51.041	50	102	70.0 to 130.		.944	-25 to 25.0
Acrolein	50.877	50	102	70.0 to 130.		1.54	-25 to 25.0
Acetone	50.099	50	100	70.0 to 130.		.565	-25 to 25.0
Freon-11	50.45	50	101	70.0 to 130.		1.67	-25 to 25.0
Isopropyl Alcohol	52.947	50	106	70.0 to 130.		.852	-25 to 25.0
Acrylonitrile	51.219	50	102	70.0 to 130.		1.6	-25 to 25.0
Pentane	50.887	50	102	70.0 to 130.		1.58	-25 to 25.0
Ethyl Bromide	50.853	50	102	70.0 to 130.		.807	-25 to 25.0
1,1-Dichloroethene	51.179	50	102	70.0 to 130.		.676	-25 to 25.0
tert-Butyl Alcohol	51.662	50	103	70.0 to 130.		1.31	-25 to 25.0
Methylene Chloride	48.336	50	96.7	70.0 to 130.		1.93	-25 to 25.0
Freon-113	50.429	50	101	70.0 to 130.		.703	-25 to 25.0
Carbon Disulfide	50.698	50	101	70.0 to 130.		.362	-25 to 25.0
Allyl Chloride	50.306	50	101	70.0 to 130.		1.11	-25 to 25.0
trans-1,2-Dichloroethene	50.881	50	102	70.0 to 130.		1.65	-25 to 25.0
1,1-Dichloroethane	50.614	50	101	70.0 to 130.		1.15	-25 to 25.0
Methyl tert-Butyl Ether	51.41	50	103	70.0 to 130.		-.148	-25 to 25.0
Vinyl Acetate	51.404	50	103	70.0 to 130.		.847	-25 to 25.0
Methyl Ethyl Ketone	51.251	50	103	70.0 to 130.		.961	-25 to 25.0
cis-1,2-Dichloroethylene	51.445	50	103	70.0 to 130.		.371	-25 to 25.0
Hexane	51.439	50	103	70.0 to 130.		.256	-25 to 25.0
Ethyl Acetate	52.441	50	105	70.0 to 130.		-.42	-25 to 25.0
Chloroform	50.506	50	101	70.0 to 130.		.445	-25 to 25.0
Tetrahydrofuran	51.051	50	102	70.0 to 130.		.893	-25 to 25.0
1,2-Dichloroethane	50.979	50	102	70.0 to 130.		1.14	-25 to 25.0
1,1,1-Trichloroethane	51.153	50	102	70.0 to 130.		1.55	-25 to 25.0
Benzene	50.954	50	102	70.0 to 130.		-.871	-25 to 25.0

Sample: WG497676-3 **Spikelot:** IH702523

QC Type: LCSD **Raw File:**

Analysis date 03/24/21 11:40:00 **Approval Status:** YES

Instrument: MS J **Samp Join ID:** SJ12803017

Parameter	Found	True	Rec.	Limits	DE Rec. Limits	RPD	Limits
Carbon Tetrachloride	50.705	50	101	70.0 to 130.		2.24	-25 to 25.0
Cyclohexane	51.81	50	104	70.0 to 130.		.934	-25 to 25.0
1,2-Dichloropropane	51.149	50	102	70.0 to 130.		.0762	-25 to 25.0
Bromodichloromethane	51.463	50	103	70.0 to 130.		.88	-25 to 25.0
1,4-Dioxane	53.218	50	106	70.0 to 130.		1.37	-25 to 25.0
Trichloroethylene	51.534	50	103	70.0 to 130.		1.16	-25 to 25.0
2,2,4-Trimethylpentane	51.808	50	104	70.0 to 130.		.899	-25 to 25.0
Methyl Methacrylate	53.716	50	107	70.0 to 130.		.127	-25 to 25.0
Heptane	51.59	50	103	70.0 to 130.		1.01	-25 to 25.0
cis-1,3-Dichloropropene	52.17	50	104	70.0 to 130.		1.13	-25 to 25.0
trans-1,3-Dichloropropene	52.444	50	105	70.0 to 130.		1.26	-25 to 25.0
1,1,2-Trichloroethane	51.222	50	102	70.0 to 130.		.627	-25 to 25.0
Methyl Isobutyl Ketone	51.815	50	104	70.0 to 130.		.623	-25 to 25.0
Toluene	51.017	50	102	70.0 to 130.		-.0686	-25 to 25.0
Methyl Butyl Ketone	54.717	50	109	70.0 to 130.		.288	-25 to 25.0
Dibromochloromethane	53.254	50	107	70.0 to 130.		-.401	-25 to 25.0
1,2-Dibromoethane	51.911	50	104	70.0 to 130.		-.469	-25 to 25.0
Tetrachloroethylene	51.148	50	102	70.0 to 130.		.509	-25 to 25.0
Chlorobenzene	51.59	50	103	70.0 to 130.		.0291	-25 to 25.0
Ethylbenzene	51.399	50	103	70.0 to 130.		.644	-25 to 25.0
m & p-Xylene	103.016	100	103	70.0 to 130.		.456	-25 to 25.0
Bromoform	53.547	50	107	70.0 to 130.		.826	-25 to 25.0
Styrene	52.517	50	105	70.0 to 130.		.188	-25 to 25.0
1,1,2,2-Tetrachloroethane	52.186	50	104	70.0 to 130.		.967	-25 to 25.0
o-Xylene	51.906	50	104	70.0 to 130.		1.14	-25 to 25.0
Nonane	52.826	50	106	70.0 to 130.		.489	-25 to 25.0
Cumene	52.031	50	104	70.0 to 130.		1.47	-25 to 25.0
2-Chlorotoluene	52.179	50	104	70.0 to 130.		1.26	-25 to 25.0
n-Propylbenzene	51.898	50	104	70.0 to 130.		1.2	-25 to 25.0
4-Ethyltoluene	52.653	50	105	70.0 to 130.		.725	-25 to 25.0
1,3,5-Trimethylbenzene	52.187	50	104	70.0 to 130.		1.27	-25 to 25.0
1,2,4-Trimethylbenzene	52.53	50	105	70.0 to 130.		1.8	-25 to 25.0
Benzyl Chloride	56.848	50	114	70.0 to 130.		.83	-25 to 25.0
1,3-Dichlorobenzene	52.764	50	106	70.0 to 130.		1.46	-25 to 25.0
1,4-Dichlorobenzene	51.557	50	103	70.0 to 130.		1.86	-25 to 25.0
1,2-Dichlorobenzene	53.077	50	106	70.0 to 130.		1.23	-25 to 25.0
Naphthalene	58.514	50	117	70.0 to 130.		1.32	-25 to 25.0

Sample: WG497676-4 **Spikelot:** IH702835

QC Type: DLS **Raw File:**

Analysis date 03/24/21 13:02:00 **Approval Status:** YES

Instrument: MS J **Samp Join ID:** SJ12803018

Parameter	Found	True	Rec.	Limits	DE Rec. Limits	RPD	Limits
Freon-12	.889	.8	111	60.0 to 140.			
Chloromethane	.964	.8	121	60.0 to 140.			
Freon-114	.916	.8	115	60.0 to 140.			
Vinyl Chloride	.856	.8	107	60.0 to 140.			
1,3-Butadiene	.951	.8	119	60.0 to 140.			
n-Butane	.969	.8	121	60.0 to 140.			
Bromomethane	.99	.8	124	60.0 to 140.			
Chloroethane	.917	.8	115	60.0 to 140.			
Vinyl Bromide	.856	.8	107	60.0 to 140.			
Acrolein	.851	.8	106	60.0 to 140.			
Freon-11	.852	.8	107	60.0 to 140.			
Acrylonitrile	.89	.8	111	60.0 to 140.			
Pentane	.924	.8	116	60.0 to 140.			
Ethyl Bromide	.863	.8	108	60.0 to 140.			
1,1-Dichloroethene	.867	.8	108	60.0 to 140.			
Methylene Chloride	.994	.8	124	60.0 to 140.			
Freon-113	.886	.8	111	60.0 to 140.			
Allyl Chloride	.869	.8	109	60.0 to 140.			
trans-1,2-Dichloroethene	.908	.8	114	60.0 to 140.			
1,1-Dichloroethane	.868	.8	109	60.0 to 140.			
Methyl tert-Butyl Ether	.848	.8	106	60.0 to 140.			
Vinyl Acetate	.859	.8	107	60.0 to 140.			
Methyl Ethyl Ketone	.874	.8	109	60.0 to 140.			
cis-1,2-Dichloroethylene	.872	.8	109	60.0 to 140.			
Hexane	.868	.8	109	60.0 to 140.			
Ethyl Acetate	.873	.8	109	60.0 to 140.			
Chloroform	.906	.8	113	60.0 to 140.			
Tetrahydrofuran	.854	.8	107	60.0 to 140.			
1,2-Dichloroethane	.863	.8	108	60.0 to 140.			
1,1,1-Trichloroethane	.867	.8	108	60.0 to 140.			
Benzene	.878	.8	110	60.0 to 140.			
Carbon Tetrachloride	.884	.8	111	60.0 to 140.			
Cyclohexane	.86	.8	108	60.0 to 140.			
1,2-Dichloropropane	.901	.8	113	60.0 to 140.			
Bromodichloromethane	.816	.8	102	60.0 to 140.			
1,4-Dioxane	.801	.8	100	60.0 to 140.			
Trichloroethylene	.862	.8	108	60.0 to 140.			

Sample: WG497676-4 **Spikelot:** IH702835
QC Type: DLS **Raw File:**
Analysis date 03/24/21 13:02:00 **Approval Status:** YES
Instrument: MS J **Samp Join ID:** SJ12803018

Parameter	Found	True	Rec.	Limits	DE Rec.	Limits	RPD	Limits
2,2,4-Trimethylpentane	.905	.8	113	60.0 to 140.				
Methyl Methacrylate	.836	.8	105	60.0 to 140.				
Heptane	.902	.8	113	60.0 to 140.				
cis-1,3-Dichloropropene	.817	.8	102	60.0 to 140.				
trans-1,3-Dichloropropene	.752	.8	94	60.0 to 140.				
1,1,2-Trichloroethane	.849	.8	106	60.0 to 140.				
Methyl Isobutyl Ketone	.923	.8	115	60.0 to 140.				
Toluene	.842	.8	105	60.0 to 140.				
Methyl Butyl Ketone	.805	.8	101	60.0 to 140.				
Dibromochloromethane	.798	.8	99.8	60.0 to 140.				
1,2-Dibromoethane	.842	.8	105	60.0 to 140.				
Tetrachloroethylene	.889	.8	111	60.0 to 140.				
Chlorobenzene	.896	.8	112	60.0 to 140.				
Ethylbenzene	.837	.8	105	60.0 to 140.				
m & p-Xylene	1.696	1.6	106	60.0 to 140.				
Bromoform	.751	.8	93.9	60.0 to 140.				
Styrene	.771	.8	96.4	60.0 to 140.				
1,1,2,2-Tetrachloroethane	.849	.8	106	60.0 to 140.				
o-Xylene	.858	.8	107	60.0 to 140.				
Nonane	.821	.8	103	60.0 to 140.				
Cumene	.842	.8	105	60.0 to 140.				
2-Chlorotoluene	.79	.8	98.8	60.0 to 140.				
n-Propylbenzene	.802	.8	100	60.0 to 140.				
4-Ethyltoluene	.81	.8	101	60.0 to 140.				
1,3,5-Trimethylbenzene	.812	.8	102	60.0 to 140.				
1,2,4-Trimethylbenzene	.778	.8	97.3	60.0 to 140.				
Benzyl Chloride	.63	.8	78.8	60.0 to 140.				
1,3-Dichlorobenzene	.848	.8	106	60.0 to 140.				
1,4-Dichlorobenzene	.809	.8	101	60.0 to 140.				
1,2-Dichlorobenzene	.827	.8	103	60.0 to 140.				
Naphthalene	.71	.8	88.8	60.0 to 140.				

Sample: WG497676-5 **Spikelot:** IH702835
QC Type: DLS **Raw File:**
Analysis date 03/24/21 13:44:00 **Approval Status:** YES
Instrument: MS J **Samp Join ID:** SJ12803019

Parameter	Found	True	Rec.	Limits	DE Rec.	Limits	RPD	Limits

Sample: WG497676-5 **Spikelot:** IH702835
QC Type: DLS **Raw File:**
Analysis date 03/24/21 13:44:00 **Approval Status:** YES
Instrument: MS J **Samp Join ID:** SJ12803019

Parameter	Found	True	Rec.	Limits	DE Rec.	Limits	RPD	Limits
Propylene	5.336	5	107	60.0 to 140.				
Acetonitrile	6.098	5	122	60.0 to 140.				
Acetone	5.826	5	117	60.0 to 140.				
Isopropyl Alcohol	4.692	5	93.8	60.0 to 140.				
tert-Butyl Alcohol	4.577	5	91.5	60.0 to 140.				
Carbon Disulfide	4.983	5	99.7	60.0 to 140.				

Sample: WG497676-1 **Spikelot:** NA
QC Type: BLANK **Raw File:**
Analysis date 03/24/21 14:24:00 **Approval Status:** YES
Instrument: MS J **Samp Join ID:** SJ12803135

Parameter	Found	True	Rec.	Limits	DE Rec.	Limits	RPD	Limits

Sample: WG497676-1 **Spikelot:** NA
QC Type: BLANK **Raw File:**
Analysis date 03/24/21 14:24:00 **Approval Status:** YES
Instrument: MS J **Samp Join ID:** SJ12803214

Parameter	Found	True	Rec.	Limits	DE Rec.	Limits	RPD	Limits

Sample: WG497676-7 **Spikelot:** IH702388
QC Type: CCV **Raw File:**
Analysis date 03/25/21 01:18:00 **Approval Status:** YES
Instrument: MS J **Samp Join ID:** SJ12803020

Parameter	Found	True	Rec.	Limits	DE Rec.	Limits	RPD	Limits
Propylene	53.102	50	106	70.0 to 130.				
Freon-12	53.354	50	107	70.0 to 130.				
Chloromethane	56.574	50	113	70.0 to 130.				
Freon-114	54.749	50	109	70.0 to 130.				
Vinyl Chloride	54.526	50	109	70.0 to 130.				
1,3-Butadiene	56.444	50	113	70.0 to 130.				
n-Butane	54.868	50	110	70.0 to 130.				
Bromomethane	53.313	50	107	70.0 to 130.				
Chloroethane	56.836	50	114	70.0 to 130.				
Acetonitrile	52.013	50	104	70.0 to 130.				
Vinyl Bromide	53.045	50	106	70.0 to 130.				
Acrolein	53.367	50	107	70.0 to 130.				
Acetone	52.537	50	105	70.0 to 130.				
Freon-11	53.595	50	107	70.0 to 130.				

Sample: WG497676-7 **Spikelot:** IH702388

QC Type: CCV **Raw File:**

Analysis date 03/25/21 01:18:00 **Approval Status:** YES

Instrument: MS J **Samp Join ID:** SJ12803020

Parameter	Found	True	Rec.	Limits	DE Rec.	Limits	RPD	Limits
Isopropyl Alcohol	54.515	50	109	70.0 to 130.				
Acrylonitrile	53.898	50	108	70.0 to 130.				
Pentane	53.381	50	107	70.0 to 130.				
Ethyl Bromide	53.617	50	107	70.0 to 130.				
1,1-Dichloroethene	53.37	50	107	70.0 to 130.				
tert-Butyl Alcohol	53.564	50	107	70.0 to 130.				
Methylene Chloride	50.798	50	102	70.0 to 130.				
Freon-113	52.997	50	106	70.0 to 130.				
Carbon Disulfide	52.855	50	106	70.0 to 130.				
Allyl Chloride	52.996	50	106	70.0 to 130.				
trans-1,2-Dichloroethene	53.535	50	107	70.0 to 130.				
1,1-Dichloroethane	53.06	50	106	70.0 to 130.				
Methyl tert-Butyl Ether	53.247	50	106	70.0 to 130.				
Vinyl Acetate	53.347	50	107	70.0 to 130.				
Methyl Ethyl Ketone	53.673	50	107	70.0 to 130.				
cis-1,2-Dichloroethylene	53.628	50	107	70.0 to 130.				
Hexane	53.72	50	107	70.0 to 130.				
Ethyl Acetate	54.84	50	110	70.0 to 130.				
Chloroform	53.161	50	106	70.0 to 130.				
Tetrahydrofuran	53.11	50	106	70.0 to 130.				
1,2-Dichloroethane	53.556	50	107	70.0 to 130.				
1,1,1-Trichloroethane	53.328	50	107	70.0 to 130.				
Benzene	52.649	50	105	70.0 to 130.				
Carbon Tetrachloride	54.034	50	108	70.0 to 130.				
Cyclohexane	53.413	50	107	70.0 to 130.				
1,2-Dichloropropane	53.185	50	106	70.0 to 130.				
Bromodichloromethane	53.729	50	107	70.0 to 130.				
1,4-Dioxane	54.64	50	109	70.0 to 130.				
Trichloroethylene	53.823	50	108	70.0 to 130.				
2,2,4-Trimethylpentane	53.545	50	107	70.0 to 130.				
Methyl Methacrylate	55.6	50	111	70.0 to 130.				
Heptane	54.15	50	108	70.0 to 130.				
cis-1,3-Dichloropropene	54.533	50	109	70.0 to 130.				
trans-1,3-Dichloropropene	54.559	50	109	70.0 to 130.				
1,1,2-Trichloroethane	53.7	50	107	70.0 to 130.				
Methyl Isobutyl Ketone	53.581	50	107	70.0 to 130.				
Toluene	53.393	50	107	70.0 to 130.				

Sample: WG497676-7 **Spikelot:** IH702388

QC Type: CCV **Raw File:**

Analysis date 03/25/21 01:18:00 **Approval Status:** YES

Instrument: MS J **Samp Join ID:** SJ12803020

Parameter	Found	True	Rec.	Limits	DE Rec.	Limits	RPD	Limits
Methyl Butyl Ketone	56.142	50	112	70.0 to 130.				
Dibromochloromethane	55.542	50	111	70.0 to 130.				
1,2-Dibromoethane	54.436	50	109	70.0 to 130.				
Tetrachloroethylene	54.182	50	108	70.0 to 130.				
Chlorobenzene	54.041	50	108	70.0 to 130.				
Ethylbenzene	54.046	50	108	70.0 to 130.				
m & p-Xylene	108.739	100	109	70.0 to 130.				
Bromoform	55.726	50	111	70.0 to 130.				
Styrene	55.315	50	111	70.0 to 130.				
1,1,2,2-Tetrachloroethane	55.251	50	111	70.0 to 130.				
o-Xylene	55.168	50	110	70.0 to 130.				
Nonane	55.825	50	112	70.0 to 130.				
Cumene	55.262	50	111	70.0 to 130.				
2-Chlorotoluene	55.172	50	110	70.0 to 130.				
n-Propylbenzene	54.964	50	110	70.0 to 130.				
4-Ethyltoluene	55.873	50	112	70.0 to 130.				
1,3,5-Trimethylbenzene	55.331	50	111	70.0 to 130.				
1,2,4-Trimethylbenzene	56.097	50	112	70.0 to 130.				
Benzyl Chloride	58.204	50	116	70.0 to 130.				
1,3-Dichlorobenzene	55.951	50	112	70.0 to 130.				
1,4-Dichlorobenzene	55.047	50	110	70.0 to 130.				
1,2-Dichlorobenzene	56.747	50	113	70.0 to 130.				
Naphthalene	57.106	50	114	70.0 to 130.				

773210656088
Date:03/23/21
Shipper:FEDEX
Initials:MAK
Prep:UNKNOWN

i53971

GALSON CHAIN OF CUSTODY

Wire Cart

Turn Around Time (TAT):	(surcharge)
☐ Standard	0%
☑ 4 Business Days	35%
☐ 3 Business Days	50%
☐ 2 Business Days	75%
☐ Next Day by 6pm	100%
☐ Next Day by Noon	150%
☐ Same Day	200%

☑ Samples submitted using the FreePumpLoan™ Program
☐ Samples submitted using the FreeSamplingBadges™ Program

You may edit and complete this COC electronically by logging in to your Client Portal account at https://portal.galsonlabs.com/

Client Acct No.: 14935
Original Prep No.: PSY604532
CS Rep: JTRAINER
Online COC No.: 222128

Report To		Invoice To	
	Mr. Alec Minavio		Mr. Rob Murphy
Company Name:	Leader Professional Services, Inc.	Company Name:	Leader Professional Services, Inc.
Address 1:	271 Marsh Road	Address 1:	271 Marsh Road
Address 2:	Suite 2	Address 2:	Suite 2
City, State Zip:	Pittsford, NY 14534	City, State Zip:	Pittsford, NY 14534
Phone No.:	585 - 248 - 2413	Phone No.:	585 - 248 - 2413
Cell No.:		Email Address:	rmurphy@leaderlink.com
Email reports to:	aminavio@leaderlink.com	Comments:	
Comments:		P.O. No.:	
		Payment info.:	☐ I will call SGS Galson to provide credit card info ☐ Card on File (enter the last five digits on the line below)

Comments: Need NYSDEC EDD w/ QC Summaries Cat B Deliverables

State Sampled: NY

Please indicate which OEL(s) this data will be used for:
☐ OSHA PEL ☐ ACGIH TLV ☐ MSHA ☐ Cal OSHA
☐ IAQ: _____ (Specify Limit(s)) ☐ Other: _____ (Specify Other)

Site Name:	Project: 235.198	Sampled By:	List description of industry or Process/interferences present in sampling area:

Sample ID * (Maximum of 20 Characters)	Date Sampled *	Collection Medium	Sample Volume Sample Time Sample Area *	Liters Minutes in², cm², ft² *	Analysis Requested	Method Reference ^	Hexavalent Chromium Process (e.g., welding, plating, painting, etc.)
		Minican, 1 L			Volatile Organics Profile (TO15 list)	mod. OSHA PV2120/mod. EPA TO15; GC/MS	

☐ ^ If the method(s) indicated on the COC are not our routine/preferred method(s), we will substitute our routine/preferred methods. If this is not acceptable, check here to have us contact you.

Chain of Custody	Print Name / Signature		Date	Time		Print Name / Signature		Date	Time
Relinquished By:					Received By:	Michelle Kijak	Michelle Kijak	3/23/21	12:00
Relinquished By:					Received By:				

* You must fill in these columns for any samples which you are submitting.
Samples received after 3pm will be considered as next day's business.

Online COC No.: 222128
Prep No.: PSY604532
Account No.: 14935
Draft: 3/11/2021 4:37:37 PM

All services are rendered in accordance with the applicable SGS General Conditions of Service accessible via: http://www.sgs.com/en/Terms-and-Conditions.aspx

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Member of the SGS Group (SGS SA)

SGS **GALSON** **CHAIN OF CUSTODY**

Comments :

Sample ID * (Maximum of 20 Characters)	Date Sampled *	Collection Medium	Sample Volume Sample Time Sample Area *	Liters Minutes in², cm², ft² *	Analysis Requested	Method Reference ^	Hexavalent Chromium Process (e.g., welding, plating, painting, etc.)
IA-1	3/18/21	Minican, 1 L	8 hour	1 L	Volatile Organics Profile (TO15 list)	mod. OSHA PV2120/mod. EPA TO15; GC/MS	
SS-1		Minican, 1 L			Volatile Organics Profile (TO15 list)	mod. OSHA PV2120/mod. EPA TO15; GC/MS	
SS-2		Minican, 1 L			Volatile Organics Profile (TO15 list)	mod. OSHA PV2120/mod. EPA TO15; GC/MS	
IA-2		Minican, 1 L			Volatile Organics Profile (TO15 list)	mod. OSHA PV2120/mod. EPA TO15; GC/MS	
OA-1	↓	Minican, 1L	↓	↓	TO15 List	EPA TO15	

☐ ^ If the method(s) indicated on the COC are not our routine/preferred method(s), we will substitute our routine/preferred methods. If this is not acceptable, check here to have us contact you.

Chain of Custody	Print Name / Signature		Date	Time		Print Name / Signature		Date	Time
Relinquished By :	Alec Minavin		3/19/21	13:40	Received By :	Michelle Krause		3/22/21	12:00
Relinquished By :					Received By :				

* You must fill in these columns for any samples which you are submitting.

Samples received after 3pm will be considered as next day's business.

Online COC No. : 222128
Prep No. : PSY604532
Account No. : 14935
Draft : 3/11/2021 4:37:37 PM

All services are rendered in accordance with the applicable SGS General Conditions of Service accessible via: http://www.sgs.com/en/Terms-and-Conditions.aspx

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Field Data Sheet

Facility: Bisonite paint
Address: 2250 Military Road

Employee: Alec Minucio
ID Number:
Sampled By: Alec Minucio

Job Title: Geologist
Date of Sampling: 3/18/21
PREP #

Field Sampling Data

Sample ID	Minican Number (WA or WC)	Regulator Number (WR or RR)	Flowmeter Number (AS)	Flow Rate Setting (Hrs. or Mins.)	Time On	Time Off	Starting Gauge Reading 28-30" Hg	Ending Gauge Reading 30-0" Hg	Contaminant(s)		
IA-1	WA518	WR932		Hrs.	10:30	6:30	30+	10			
SS-1	WA932	WR940			10:35	6:35	30+	6			
IA-2	WA664	WA942			10:45	6:45	30+	6			
SS-2	WA940	WR951			10:50	6:50	30+	12			
OA-1	WA937	WA935		↓	10:55	6:55	29	9			

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Laboratory Regulator Calibration Data

PSY604532

Regulator Calibration Record		Calibrated By: AJS		Minutes	Flow Professor Utilized	Pre Can Vacuum Reading	Post Flow Meter Reading	
		Date/Time:		or	Date/Time:	(Between 28-30" Hg)		
Regulator Number	Can Number	03-11-21/1620 Meter Reading(cc/min.)		Hour(s)	03-11-21/1620 Flow Professor SN	(LAB USE)	(cc/min) (LAB USE)	
WR951	WA590	1.65		8 HOUR	379	-29.41		
WR940	WA932	1.66		8 HOUR	378	-29.44		
WR942	WA664	1.65		8 HOUR	380	-29.44		
WR932	WA518	1.65		8 HOUR	379	-29.44		
WR935	WA937	1.66		8 HOUR	378	-29.45		

Flow Professor Utilized		Flow Professor Serial Number	Checked Box Indicates Flow Professor Utilized			
	Flow Professor (FP1)	380		X		
	Flow Professor (FP2)	379		X		
	Flow Professor (FP3)	378		X		
	Flow Professor (FP4)	523				
	GRAB					

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Appendix C

Data Usability Summary Reports

Data Usability Summary Report
March 2021 Sampling Event
Bisonite Site
Tonawanda, New York
MEHC Project No. 14-223

DATA USABILITY

The Quality Assurance Project Plan ("QAPP") was prepared for this project by Leader Professional Services, Inc. ("LPSI"). The QAPP presents the policies, organization, objectives, functional activities, and specific Quality Assurance ("QA") and Quality Control ("QC") measures designed to achieve the data quality goals associated with this investigation. The QAPP identifies procedures for sample preparation and handling, sample chain-of-custody, laboratory analyses, and reporting that were implemented during this investigation to ensure the accuracy and integrity of the data generated during the investigation.

LPSI conducted the sampling event as part of the Remedial Investigation and Supplemental Investigation activities of the Bisonite Property ("Site") in Tonawanda, New York.

DATA SUMMARY

The Data Usability Review and Data Validation Compliance Chart has been completed for the laboratory Tier IV deliverable packages generated by ALS Laboratories ("ALS"), pertaining to samples collected on the Site on March 18, 2021. A total of 41 samples were collected, including Quality Control samples, during the March 2021 sampling event as part of 6 NYCRR Part 375, Environmental Remediation Programs. The following USEPA Methodologies were used to analyze these samples for the following analytes:

Semi-Volatile Organics ("SVOCs") USEPA Method 8270D

Field duplicate, surrogates, internal standards, reference samples, matrix spikes, and matrix spike duplicates were included in the sample set and processed. Samples were collected and received on the following schedule:

Sample Data Group ("SDG")	Date Collected	Date Received by ALS	Sample Matrix	Requested Analyses	Sample Temperature (°C)
R2102620	03/18/2021	03/19/2021	Soil (17 Samples)	VOCs 8270 Total Solids	6.9°C
R2102621	03/18/2021	03/19/2021	Soil (24 Samples)	VOCs 8270 Total Solids	6.9°C

Data usability and validation was performed with guidance from the most current editions of the USEPA CLP National Functional Guidelines for Inorganic and Organic Data Review. The following items were reviewed:

- Data Completeness;
- Custody Documentation;
- Holding Times;
- Sample Blanks Review;
- Field Duplicate Samples (not collected);
- Matrix Spike Samples and Duplicates; and
- Control Spike/Laboratory Control Samples.

Those items showing deficiencies, if any, are discussed in the attached Data Validation Compliance Chart. All others were found to be acceptable as outlined in the above-mentioned usability procedures, and as applicable for the methodology. Unless noted specifically in the following text, reported results are substantiated by the reported data, and generated in compliance with protocol requirements.

In summary, sample preservation, handling, and processing was conducted with compliance to protocol requirements and with adherence to quality criteria and the reported results are considered "usable".

The Data Validation Compliance Chart is included with this report.

CUSTODY DOCUMENTATION

Chain of Custody ("COC") forms are used to document the history of sample possession from the time the sample containers leave their point of origin (usually the laboratory performing the analyses) to the time the samples are received by the laboratory. COCs are considered legal documents.

The laboratory reports, R2102620 and R2102621, associated with the 41 soil samples collected on March 18, 2021 is detailed below:

1. SSA-6: 0-2 inches; 6 inches; 12 inches; and 23 inches
2. SSB-4: 0-2 inches; 5 inches; 10 inches; and 18 inches
3. SSA-5: 0-2 inches; 6 inches; 12 inches; and 21 inches
4. SSA-5 Duplicate: 21 inches
5. SSA-5 MS/MSD: 21 inches
6. SSA-4: 0-2 inches; 5 inches; 8 inches; and 18 inches
7. SSB-3: 0-2 inches; 6 inches; 12 inches; and 24 inches
8. SSA-3: 0-2 inches; 6 inches; 12 inches; and 20 inches
9. SSA-2: 0-2 inches; 6 inches; 12 inches; and 24 inches
10. SSB-2: 0-2 inches; 6 inches; 12 inches; and 24 inches
11. SSA-1: 0-2 inches; 6 inches; 12 inches; and 20 inches
12. SSB-1: 0-2 inches; 6 inches; 12 inches; and 24 inches

Sample SSA-5 (21 inches) was collected in Duplicate as well as Matrix Spike (MS) and Matrix Spike Duplicate (MSD).

The Chain of Custody ("COC") documents the sample collection efforts. There one (1) discrepancy on the COC related to sample SSB-3. The sample was mislabeled on the COC. The Project Manager contacted ALS with the change. ALS modified the sample label to reflect the correct sample information.

PRESERVATION AND TECHNICAL HOLDING TIMES

The sample temperatures were 6.9°C, slightly above the 6.0°C limit. The laboratory noted that there were not enough ice packs. The temperature is noted without qualification.

All sample holding times were met.

ACCURACY, PRECISION, AND SENSITIVITY OF ANALYSES

The fundamental QA objective with respect to the accuracy, precision, and sensitivity of analytical data is to achieve the QC acceptance of each analytical protocol. Accuracy and precision are determined using matrix spike ("MS") and matrix spike duplicate ("MSD") samples.

Accuracy is a measure of the difference of a set of analytical results to the accepted or expected values. Accuracy was assessed by using the MS/MSD and surrogate spike recovery data.

Recovery values were reported within the QC limits for each analytical parameter group.

Precision is a measure of the mutual agreement between measurements of the same parameter.

The sample results for the Site are considered "usable".

COMPLETENESS, REPRESENTATIVENESS, AND COMPARABILITY OF DATA

Completeness is the measure of the amount of valid data obtained from a measurement system compared with the amount expected to be obtained under normal conditions. Review of the analytical data packages provided by ALS indicates that the requested parameters were analyzed for and reported by the laboratory for each sample submitted under proper chain-of-custody procedures.

Based upon MEHC's review of the laboratory data, a usable data level was achieved.

Representativeness of the data is obtained through the design of the sampling program and the adherence to established sample collection procedures, sample-handling SOPs, and analytical procedures. The sampling program outlined in the Work Plan was designed to provide for data representative of site conditions taking into consideration past disposal practices, existing data from past studies, and the physical site setting. Collection of the soil samples were conducted in accordance with established industry and regulatory protocols.

The laboratory maintained all holding times for the specific analytical protocols.

Comparability of the data is derived from the evaluation of field duplicate samples and the adherence to established sampling and analytical procedures. A field duplicate is an independent sample collected as close as possible to the original location from the same sampling point. All the soil samples were analyzed utilizing standardized USEPA methodologies performed in accordance with the latest version of the NYSDEC ASP protocols.

QUALITY CONTROL CHECKS

Trip Blanks

A Trip blank was NOT included with the shipment of the soil samples.

Field (Equipment) Blanks

A field (equipment) blank was NOT collected on March 18, 2021 as part of this project. The samples were collected with dedicated field equipment.

Method Blanks

A method blank is a sample of reagent water, which is carried through the analytical procedure alongside the project samples to determine the level of laboratory background and reagent contamination.

For this investigation, a method blank was analyzed alongside the soil samples collected on March 18, 2021. There were no target analytes found in the method blanks.

Matrix Spike/Matrix Spike Duplicate Samples

For the Site, one (1) MS/MSD was collected and analyzed for the soil samples. Some of the matrix spikes were outside of the control limits due to sample matrix. However, the LCS/LCSD samples were within control limits.

These results are detailed in the Data Validation Compliance Chart.

Surrogate Analyses

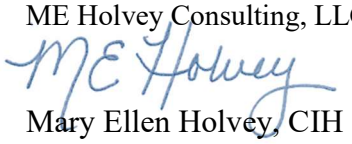
Surrogates are compounds added directly to every standard, blank, MS/MSD, and sample at a known concentration, prior to extraction or analysis; and used to evaluate the analytical efficiency by measuring percent recovery of those compounds upon analysis. The laboratory reported surrogate recoveries were within established QC limits for the surrogates except for some LCS sample surrogates which were re-extracted and found within limits.

OVERALL ASSESSMENT

As was determined by this evaluation, the laboratory followed the specified analytical methods. Accuracy was acceptable as demonstrated by the surrogate, laboratory control sample/laboratory control samples (LCS), and MS/MSD, % Recovery values, with the exceptions noted in the above narrative, if any.

The sample results for the Site, as qualified, are considered acceptable for use.

PREPARED BY: ME Holvey Consulting, LLC



Mary Ellen Holvey, CIH
Senior Industrial Hygienist

April 20, 2021

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Data Validation Compliance Chart
Bisonite
Tonawanda, New York

March 18, 2021 Sampling Event

Sample Data Group (SDG)	R2102620 and R2102621
Matrix	**Soil**
Analysis	**SVOCs 8270**
Holding Times	Samples were extracted and analyzed within USEPA holding times
Sample Preservation	The samples were collected in accordance with laboratory protocols. The sample temperatures were 6.9°C, above the 6.0°C limit. The laboratory noted that there were not enough ice packs. The temperature is noted without qualification.
Calibration	In the calibrations, all criteria were within method requirements.
Method Blanks	There were no detections of target analytes in the Method Blanks.
Detection Limits	No issues identified. Samples requiring dilution are reflected in the reporting limits.
Matrix Spike/Matrix Spike Duplicate	Some of the matrix spikes were outside of the control limits due to sample matrix. The LCS/LCSD samples were within control limits. No further action is required or noted. All other data quality objectives were satisfied.
Surrogates	The upper control limit was exceeded for one or more surrogates in one or more samples in this report. The surrogate was within limits for the original analysis. All other data quality objectives were satisfied.
Internal Standards	All data quality objectives were satisfied.

Data Validation Compliance Chart
Bisonite
Tonawanda, New York

March 18, 2021 Sampling Event

Sample Data Group (SDG)	**R2102620 and R2102621**
Matrix	**Soil**
Analysis	**SVOCs 8270**
Laboratory Control Sample	The lower control limit for the spike recovery of the Laboratory Control Sample (LCS) was exceeded for one or more analyte. The discrepancy associated with reduced recovery equates to a potential low bias. The samples were re-extracted and within the control limits. All other data quality objectives were satisfied. The laboratory internal quality control samples were within acceptable ranges.
Data Usability	Data is acceptable for use.

Data Usability Summary Report
March 2021 Sampling Event
Bisonite Site
MEHC Project No. 14-223

EXECUTIVE SUMMARY

This Data Usability Summary Report is for the Air Sampling Event at the Bisonite Site ("Site"). The sampling event was conducted by Leader Professional Services, Inc. ("LPSI") on March 18, 2021 which included indoor and outdoor air sampling using 1-liter stainless steel canisters.

The review of the data was evaluated for the following levels of uncertainty:

- **Critical** – Results have an unacceptable level of uncertainty and should not be used for making decisions. Data have been qualified "R" rejected.
- **Major** – A level of uncertainty exists that may not meet the data quality objectives for the project. A bias is likely to be present in the results. Data have been qualified "J" estimated.
- **Minor** – The level of uncertainty is acceptable. No significant bias in the data was observed.

Critical Findings: None
Major Findings: None
Minor Findings: None

The data meets all quality control and quality assurance objectives.

DATA USABILITY

The Quality Assurance Project Plan ("QAPP") was prepared for this project by LPSI. The QAPP presents the policies, organization, objectives, functional activities, and specific Quality Assurance ("QA") and Quality Control ("QC") measures designed to achieve the data quality goals associated with this investigation. The QAPP identifies procedures for sample preparation and handling, sample chain-of-custody, laboratory analyses, and reporting that were implemented during this investigation to ensure the accuracy and integrity of the data generated during the investigation.

LPSI conducted the Interim Remedial Measures and air sampling at the Site. The Air Sampling was conducted by LPSI and submitted for analysis to SGS Galson Laboratories ("SGS") by USEPA Method TO-15.

SAMPLE SUMMARY

The Data Usability Review and Data Validation Compliance Chart has been completed for the laboratory deliverable packages generated by SGS, pertaining to samples collected for the Site Investigation on March 18, 2021. A total of five (5) air samples were collected during the March 18, 2021 sampling event and analyzed for TO-15 Volatile Organic Compounds ("VOCs") including the laboratory quality control samples.

The following USEPA Methodologies were used to analyze these samples for the following analytes:

Volatiles Organic Compounds (VOCs)	Method TO-15/Modified OSHA PV2120
Sample Delivery Group (SDG) No.	L531971

Surrogates, internal standards, laboratory control samples, laboratory matrix spikes, and laboratory duplicates were included and processed.

Samples were collected and received on the following schedule:

Sample Package ID	Date Collected	Date Received by SGS	Sample Matrix	Requested Analyses	Sample (Post) Vacuum (in Hg)
L531971	03/18/2021	03/23/2021	Air	USEPA TO-15	-10; -6; -6; -12; and -9

Data usability and validation was performed with guidance from the most current editions of the USEPA CLP National Functional Guidelines for Inorganic and Organic Data Review. The following items were reviewed:

- Data Completeness;
- Custody Documentation;
- Holding Times;
- Sample Blanks Review;
- Field Duplicate Samples;
- Matrix Spike Samples and Duplicates; and
- Laboratory Control Spike/Laboratory Control Samples.

Those items showing deficiencies, if any, are discussed in the attached Data Validation Compliance Chart. All the reviewed data was found to be acceptable as outlined in the above-mentioned usability procedures, and as applicable for the methodology. Unless noted specifically in the following text, reported results are substantiated by the reported data and generated in compliance with analytical protocol requirements.

In summary, sample processing was conducted with compliance to protocol requirements and with adherence to quality criteria and the reported results are considered "usable".

The Data Validation Compliance Chart is included with this report.

SAMPLING INFORMATION AND SAMPLE CUSTODY DOCUMENTATION

Chain of Custody ("COC") forms are used to document the history of sample possession from the time the sample containers leave their point of origin (usually the laboratory performing the analyses) to the time the samples are received by the laboratory. COCs are considered legal documents.

The complete list of sample information was provided:

a.	Sample Locations:	Bisonite Site
b.	Sample Matrix:	Air
c.	Trip Blanks:	No Trip Blank
d.	Field Duplicate:	No Field Duplicate

e.	QC Audit Samples:	Laboratory Control Samples with Duplicate and Matrix Spikes
f.	Sampling Date:	March 18, 2021
g.	Received at SGS:	March 23, 2021
h.	Laboratory:	SGS Analytical
i.	Initial/Final Canister Pressure:	In Compliance
j.	Initial/Final Canister Temperature:	In Compliance

The Chain of Custody ("COC") accurately documents the sample collection. The following samples were submitted to SGS:

1. 1A-1
2. SS-1
3. SS-2
4. 1A-2
5. OA-1

Accuracy, Precision, and Sensitivity of Analyses

The fundamental QA objective with respect to the accuracy, precision, and sensitivity of analytical data is to achieve the QC acceptance of each analytical protocol. Accuracy and precision are determined using matrix spike ("MS") and matrix spike duplicate ("MSD") samples.

Accuracy is a measure of the difference of a set of analytical results to the accepted or expected values. Accuracy is assessed by using the MS/MSD and surrogate spike recovery data.

Recovery values were reported within the QC limits for each analytical parameter group.

Precision is a measure of the mutual agreement between measurements of the same parameter.

The sample results for the Air Sampling are considered "usable".

Completeness, Representativeness, and Comparability of Data

Completeness is the measure of the amount of valid data obtained from a measurement system compared with the amount expected to be obtained under normal conditions. Review of the analytical data packages provided by SGS indicates that the requested parameters were analyzed for and reported by the laboratory for each sample submitted under proper chain-of-custody procedures.

Based upon MEHC's review of the laboratory data, a usable data level was achieved.

Representativeness of the data is obtained through the design of the sampling program and the adherence to established sample collection procedures, sample-handling SOPs, and analytical procedures. The sampling program outlined in the Work Plan was designed to provide for data representative of site conditions taking into consideration past disposal practices, existing data from past studies, and the physical site setting. Collection of the air samples were conducted in accordance with established industry and regulatory protocols.

The laboratory maintained all holding times for the specific analytical protocols.

Comparability of the data is derived from the evaluation of field duplicate samples and the adherence to established sampling and analytical procedures. A field duplicate is an independent sample collected as close as possible to the original location from the same sampling point. A

Field Duplicate was NOT collected.

All the air samples were analyzed utilizing standardized USEPA methodologies performed in accordance with the latest version of the NYSDEC ASP protocols.

Quality Control Checks

Trip Blanks

A trip blank is provided with each shipping container of samples to be analyzed for VOCs. Analysis of trip blanks determines whether sample canister was contaminated during shipment from the laboratory, while in storage, in shipment to the laboratory, or during analysis at a laboratory. Trip blanks consist of clean canister prepared by the analytical laboratory prior to transportation the sample canisters.

A Trip blank was not included with the shipment of the air samples. However, a canister certification evaluation was completed on SGS pre-cleaned containers. There were no detectable levels of VOCs in these sampled containers.

Field (Equipment) Blanks

Given that dedicated sampling pre-cleaned stainless steel air sampling equipment was utilized for the collection of each sample, a field (equipment) blank not collected.

Method Blanks

A method blank is a sample of air, which is carried through the analytical procedure alongside the project samples to determine the level of laboratory background contamination.

For this investigation, a laboratory method blank was analyzed alongside the air samples collected on March 18, 2021. No VOC compounds were detected in the method blanks analyzed during this investigation.

Canister Suitability

Canisters used for the sampling of ambient air must be demonstrated clean and leak free prior to sample collection. This cleanliness is demonstrated by analysis of an individual canister or analysis of a representative canister, if only batch cleaning was required. Leak proof testing is performed on individual canisters. Canisters are used in conjunction with gauges, valves, and flow controllers. Therefore, the canister should be demonstrated clean and leak free inclusive of these components.

Leak Proof Test: Canister are tested by their ability to hold vacuum/pressure within +/-2 psi for a period of 24 hours preceding sampling.

Cleanliness: Integrity of the canister used for sampling of air for analysis should be always maintained including the time of shipment to the field, sampling, shipment back to the laboratory and time of analysis. Analytical results of the canister cleanliness verification are considered in the validation of sample results.

Matrix Spike/Matrix Spike Duplicate Samples

For this project, there was a laboratory QC MS/MSD analysis performed.

The results were within the control limits.

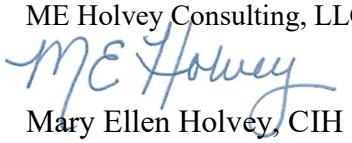
Surrogate Analyses

Surrogates are compounds added directly to every standard, blank, MS/MSD, and sample at a known concentration, prior to extraction or analysis; and used to evaluate the analytical efficiency by measuring percent recovery of those compounds upon analysis. The laboratory reported surrogate recoveries were within established QC limits for the surrogates.

OVERALL ASSESSMENT

As was determined by this evaluation, the laboratory followed the specified analytical methods. Accuracy was acceptable as demonstrated by the surrogate, laboratory control sample/laboratory control sample duplicate (LCS/LCSD), and laboratory control sample, with the exceptions (if any) noted in the above narrative.

PREPARED BY: ME Holvey Consulting, LLC



Mary Ellen Holvey, CIH
Senior Industrial Hygienist

April 19, 2021

Data Validation Compliance Chart
Bisonite Site

March 18, 2021 Sampling Event

Sample ID	**L531971**		
Matrix	**Air**		
Analysis	**USEPA TO-15 – Whole Air Samples**		
Holding Times	Samples were analyzed within USEPA holding times.		
Field Parameters	Sample ID	Vacuum Initial (in Hg)	Vacuum Final (in Hg)
	L531971-1 (IA-1)	-30+	-10
	L531971-2 (SS-1)	-30+	-6
	L531971-3 (SS-2)	-30+	-6
	L531971-4 (IA-2)	-30+	-12
	L531971-5 (OA-1)	-29	-9
Calibration	In the continuing calibration for all compounds are within of method control limits. All data quality objectives were satisfied.		
Method Blanks	All quality assurance parameters were met for these analyses.		
Canister Leak Check	The canisters passed the leak check. All quality assurance parameters were met.		
Canister Cleanliness	No detectable compounds found in the Canister Certification Evaluation. All quality assurance parameters were met for these analyses.		

Data Validation Compliance Chart
Bisonite Site

March 18, 2021 Sampling Event

Sample ID	**L531971**
Matrix	**Air**
Analysis	**USEPA TO-15 – Whole Air Samples**
Matrix Spike/Matrix Spike Duplicate	Laboratory matrix spike recovery and/or matrix spike duplicate recovery were within control limits.
Surrogates	All data quality objectives were satisfied.
Internal Standards	All data quality objectives were satisfied.
Laboratory Control Samples	All laboratory internal quality control samples were within acceptable ranges.
Data Usability	Data is acceptable.

Appendix D

NYSDOH Indoor Air Quality Questionnaire and Building Inventory

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Frank Thomas Date/Time Prepared 6/30/21 9:00 am

Preparer's Affiliation Leader Professional Svcs Phone No. 585 248-2413

Purpose of Investigation Former Bisonite Paint Facility SVI Investigation

1. OCCUPANT: - Wood Furniture Refinishing

Interviewed: Y / (N)

Last Name: _____ First Name: _____

Address: Elwood Company * Occupant not present

County: _____

Home Phone: _____ Office Phone: No phone in shop

Number of Occupants/persons at this location 1 Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ___)

Interviewed: (Y) / N

Last Name: Walter First Name: Matt

Address: 2266-2268 Military Rd. (Site), Tonawanda, NY

County: _____

Home Phone: _____ Office Phone: 716-404-5480

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential	School	(Commercial/Multi-use)
Industrial	Church	Other: _____

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

a. Above grade construction:	wood frame	(concrete)	stone	brick
b. Basement type:	full	crawlspace	slab	other None
c. Basement floor:	concrete	dirt	stone	other None
d. Basement floor:	uncovered	covered	covered with None	
e. Concrete floor:	(unsealed)	sealed	sealed with _____	
f. Foundation walls:	poured	(block)	stone	other _____
g. Foundation walls:	unsealed	(sealed)	sealed with Painted	
h. The basement is:	wet	damp	dry	moldy N/A
i. The basement is:	finished	unfinished	partially finished N/A	
j. Sump present?	Y / (N)			
k. Water in sump?	Y / N / (not applicable)			

Basement/Lowest level depth below grade: _____(feet) N/A

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

Floor inside BCP Portion of building in excellent condition. Expansion joints in concrete are sealed. No major cracks or exposed drains observed

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

(Hot air circulation)	Heat pump	Hot water baseboard	
Space Heaters	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other _____

The primary type of fuel used is:

(Natural Gas)	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: Natural Gas

Boiler/furnace located in:	Basement	Outdoors	Main Floor	Other NA
Air conditioning:	Central Air	Window units	Open Windows	(None)

j. Has painting/staining been done in the last 6 months? (Y) / N Where & When? Furniture refinishing shop SW corner of building

k. Is there new carpet, drapes or other textiles? Y / (N) Where & When? _____

l. Have air fresheners been used recently? Y / (N) When & Type? _____

m. Is there a kitchen exhaust fan? Y / (N) If yes, where vented? _____

n. Is there a bathroom exhaust fan? Y / (N) If yes, where vented? _____

o. Is there a clothes dryer? Y / (N) If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y / (N) When & Type? _____

*furniture stripping exhaust fan at SW corner of building

Are there odors in the building? Y / N

If yes, please describe: VOC odors present in furniture refinishing shop

Do any of the building occupants use solvents at work? (Y) / N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist

If yes, what types of solvents are used? Paint thinner, wood stripper, wood stains + finishers

If yes, are their clothes washed at work? Y / (N)

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) (No)
Yes, use dry-cleaning infrequently (monthly or less) Unknown
Yes, work at a dry-cleaning service

Is there a radon mitigation system for the building/structure? Y / (N) Date of Installation: _____
Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply:	(Public Water)	Drilled Well	Driven Well	Dug Well	Other: _____
Sewage Disposal:	(Public Sewer)	Septic Tank	Leach Field	Dry Well	Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: N/A

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

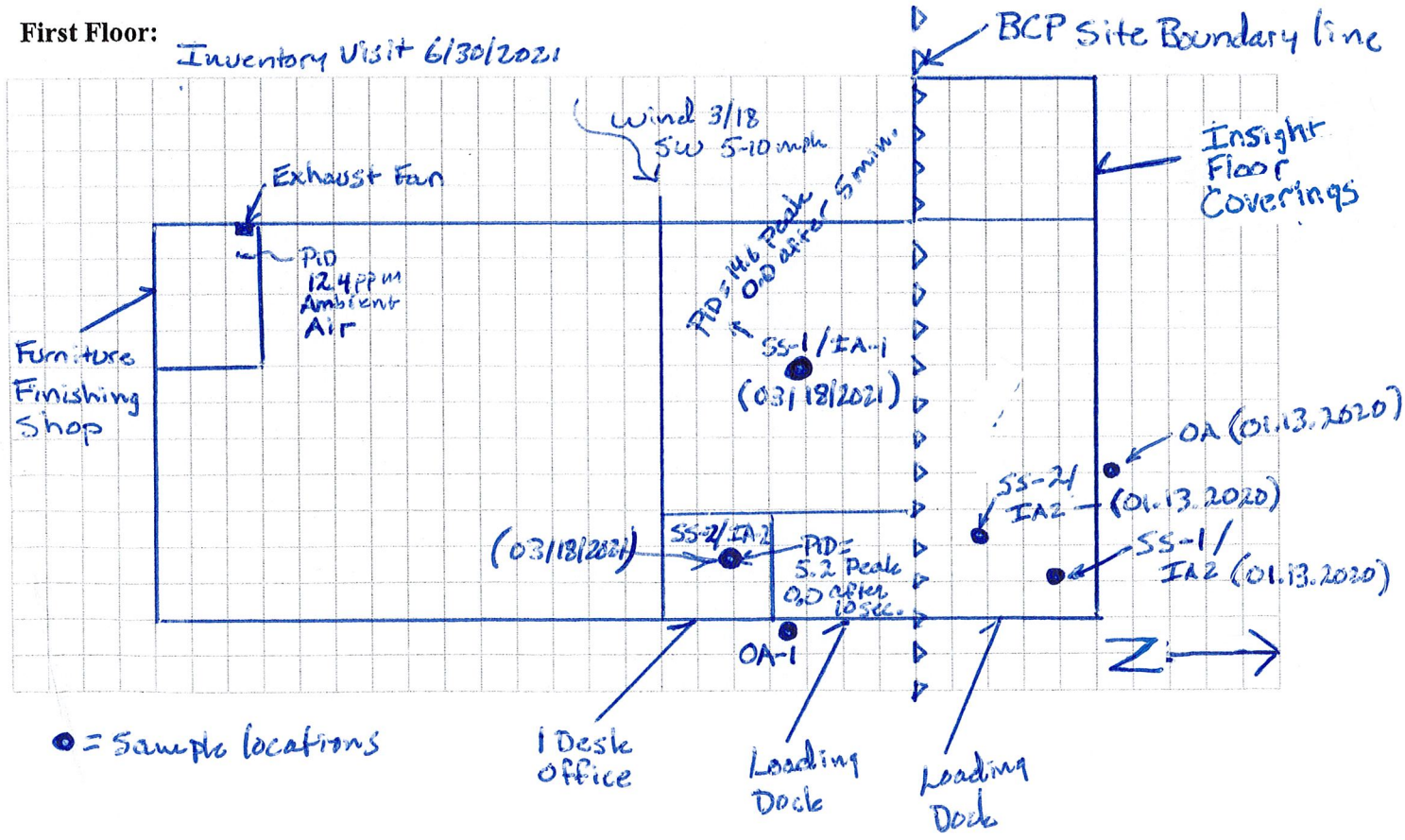
11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:

NO BASEMENT

First Floor:



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: PID - MiniRAE 3000 10.6 Ev lamp

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo**
Furniture Finishing	Emco 2245 Stripper	1 5-Gal	Fair U loose cap	Methylene chloride. Acetate Methanol	>2000 PPM	Y
"	Sunnyside Lacquer Thinner	1 5 Gal	Fair U	Ethylacetate. Acetone. Toluene. Xylene, MEK, Ethylbenzene	N/A	Y
"	Emco 4776 Polishing Solution	1 5 Gal	Fair U	Petroleum Distillates, mixed Solvents, Naphtha		Y
"	Lenmar Ultralaq	4 1 Gal	Good UO	Ethyl acetate, Acetone. Xylene, Toluene, Ethanol		Y
"	Lenmar Duralaq	1 1 Gal	Good UO	Acetone, Toluene, Ethanol, Xylene, E-Benzene, n-Butyl Acetate		Y
"	All Pro Paint Thinner	1 1 Gal	Good U	Benzene, 1,2,4-Trimethylbenzene, Stoddard solvent		Y
"	3M Final Finish	.80z.	Good U	Allumimum oxide. Petroleum Distilate		Y
"	Sherwood Universal Dye Stain	1 1 qt	Good U	1-Methoxy-2-propanol 2-Methoxy-2-propanol		Y
"	Klean Strip Mineral Spirits	1 1 Gal	Good U	Petroleum Distillate		Y
"	Mohawk Classic Toner - aersol Cans	53 18 oz	Good U+UO	Acetone. toluene, Isopropanol. ethylbenzene. Petroleum gas		Y
"	Unlabeled open Container Stripper	1 5 Gal	U Poor	- Strong VOC odor gel, Open lid	> 3000	Y
"	Unmarked Cans of Stains + Paint	± 6 Various	Good U	Appears to be wood stains in 1pt to 1qt cans		N
"	New + Used Air driven Spray Guns Observed					

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**

** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: PID - MiniRAE 3000 10.6 EV lamp

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y / N
Insight Const	Mohawk M700 Adhesive	3 4-Gal	UO	Solvent + VOC Free No Hazardous ingredients	ND in	N
"	Mohawk Enpress Carpet adhesive	8 4-Gal	UO	Vinyl acrylic VOC's < 34 grams/liter	Room	N
"	Armstrong Tile adhesive - Vinyl	4 4-Gal	UO + U	No Hazardous ingredients	|	N
"	Flextile 200 Ceramic tile adhesive	3 4-Gal	UO	Calcium Carbonate, Silica Sand, Petroleum Distillate	|	N
	* Mohawk ingredients not listed - "proprietary ingredients"					
	+					
	Armstrong					
	* All containers new or used were sealed tight					
	* Space occupied by Insight Floor Covering					

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Frank Thomas Date/Time Prepared 6/30/21 9:00 am

Preparer's Affiliation Leader Professional Svcs Phone No. 585 248-2413

Purpose of Investigation Former Bissinite Paint Facility SVI Investigation

1. OCCUPANT: - Wood Furniture Refinishing

Interviewed: Y / (N)

Last Name: _____ First Name: _____

Address: Elwood Company * Occupant not present

County: _____

Home Phone: _____ Office Phone: No phone in shop

Number of Occupants/persons at this location 1 Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ___)

Interviewed: (Y) / N

Last Name: Walter First Name: Matt

Address: 2266-2268 Military Rd. (Site), Tonawanda, NY

County: _____

Home Phone: _____ Office Phone: 716-401-5480

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential	School	(Commercial/Multi-use)
Industrial	Church	Other: _____

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

a. Above grade construction:	wood frame	(concrete)	stone	brick
b. Basement type:	full	crawlspace	slab	other None.
c. Basement floor:	concrete	dirt	stone	other None
d. Basement floor:	uncovered	covered	covered with None.	
e. Concrete floor:	(unsealed)	sealed	sealed with _____	
f. Foundation walls:	poured	(block)	stone	other _____
g. Foundation walls:	unsealed	(sealed)	sealed with Painted.	
h. The basement is:	wet	damp	dry	moldy N/A
i. The basement is:	finished	unfinished	partially finished N/A	
j. Sump present?	Y / (N)			
k. Water in sump?	Y / N / (not applicable)			

Basement/Lowest level depth below grade: _____(feet) N/A

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

Floor inside BCP Portion of building in excellent condition. Expansion joints in Concrete are sealed. No major cracks or exposed drains observed

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

(Hot air circulation)	Heat pump	Hot water baseboard	
Space Heaters	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other _____

The primary type of fuel used is:

(Natural Gas)	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: Natural Gas

Boiler/furnace located in:	Basement	Outdoors	Main Floor	Other N/A
Air conditioning:	Central Air	Window units	Open Windows	(None)

j. Has painting/staining been done in the last 6 months? (Y) / N Where & When? Furniture refinishing shop SW corner of building

k. Is there new carpet, drapes or other textiles? Y / (N) Where & When? _____

l. Have air fresheners been used recently? Y / (N) When & Type? _____

m. Is there a kitchen exhaust fan? Y / (N) If yes, where vented? _____

n. Is there a bathroom exhaust fan? Y / (N) If yes, where vented? _____

o. Is there a clothes dryer? Y / (N) If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y / (N) When & Type? _____

*furniture stripping exhaust fan at SW corner of building

Are there odors in the building? Y / N

If yes, please describe: VOC odors present in furniture refinishing shop

Do any of the building occupants use solvents at work? (Y) / N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist

If yes, what types of solvents are used? Paint thinner, wood stripper, wood stains + finishers

If yes, are their clothes washed at work? Y / (N)

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)
Yes, use dry-cleaning infrequently (monthly or less)
Yes, work at a dry-cleaning service

(No)
Unknown

Is there a radon mitigation system for the building/structure? Y / (N) Date of Installation: _____

Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: (Public Water) Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: (Public Sewer) Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: N/A

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

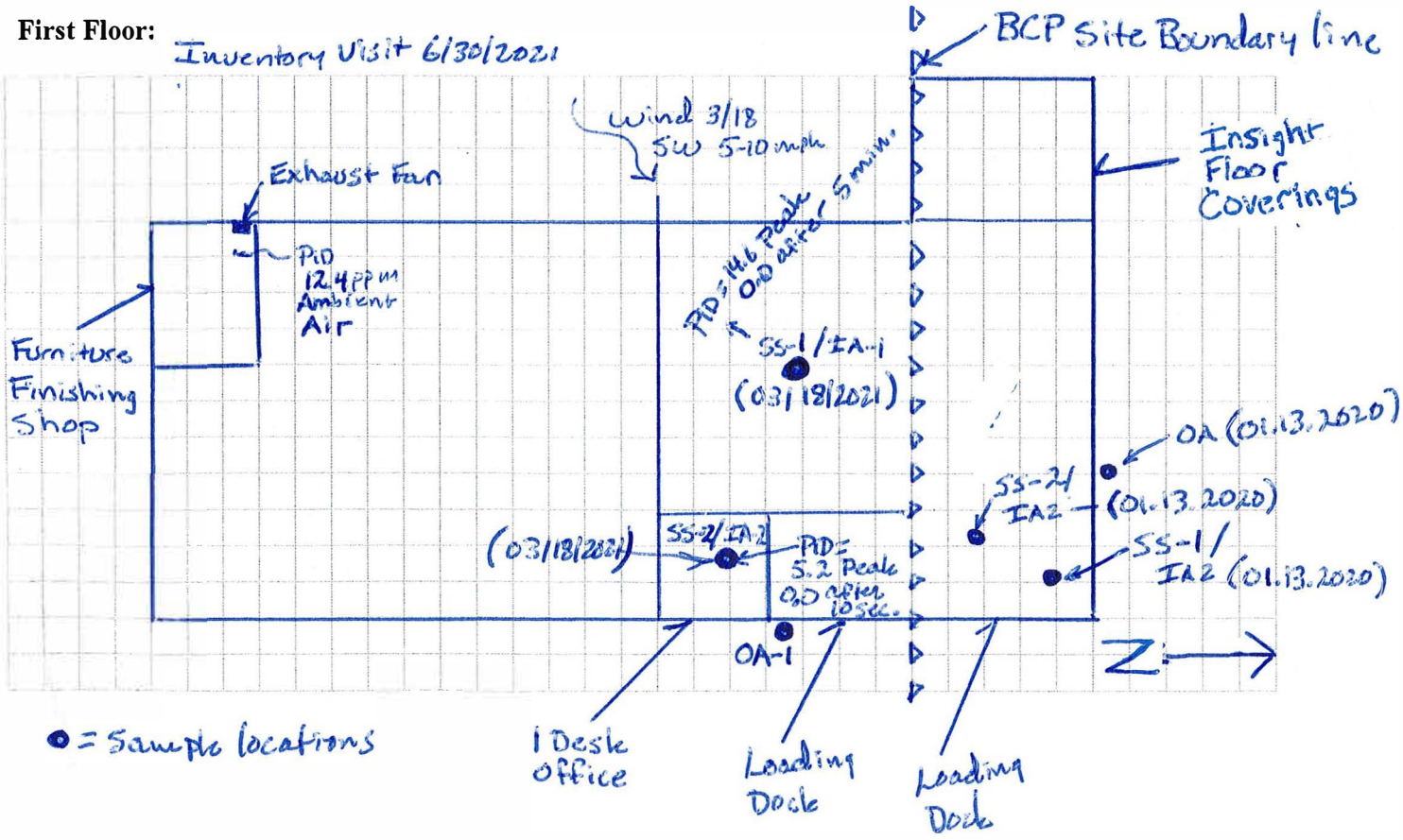
11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:

NO BASEMENT

First Floor:



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: PID - MiniRAE 3000 10.6 Ev lamp

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo **
Furniture Finishing	Emco 2245 Stripper	1 5-Gal	Fair U loose cap	Methylene chloride, Acetate Methanol	> 2000 PPM	Y
"	Sunnyside Lacquer Thinner	1 5 Gal	Fair U	Ethyl acetate, Acetone, Toluene, Xylene, MEK, Ethyl benzene	N/A	Y
"	Emco 4776 Polishing Solution	1 5 Gal	Fair U	Petroleum Distillates, mixed Solvents, Naphtha		Y
"	Lenmar Ultralag	4 1 Gal	Good UO	Ethyl acetate, Acetone, Xylene, Toluene, Ethanol		Y
"	Lenmar Duralag	1 1 Gal	Good UO	Acetone, Toluene, Ethanol, Xylene, E-Benzene, n-Butyl Acetate		Y
"	All Pro Paint Thinner	1 1 Gal	Good U	Benzene, 1,2,4-Trimethylbenzene, Stoddard solvent		Y
"	3M Final Finish	.8oz.	Good U	Aluminum oxide, Petroleum Distillate		Y
"	Sherwood Universal Dye Stain	1 1 qt	Good U	1-Methoxy-2-propanol 2-Methoxy-2-propanol		Y
"	Kbeam Strip Mineral Spirits	1 1 Gal	Good U	Petroleum Distillate		Y
"	Mohawk Classic Toner - Aerosol Cans	53 18oz	Good U+UO	Acetone, toluene, 1,2 propanol, Ethylbenzene, Petroleum gas		Y
"	Unlabeled open container stripper	1 5 Gal	U Poor	- Strong VOC odor gel, Open lid	> 3000	Y
"	Unmarked Cans of stains + paint	± 6 Various	Good U	Appears to be wood stains in 1 pt to 1 qt cans		N
"	New + Used Air driven Spray Guns Observed					

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**

** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: PID - MiniRAE 3000 10.6 EV lamp

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y / N
Insight Const	Mohawk M700 Adhesive	3 4-Gal	UO	Solvent + VOC Free No Hazardous ingredients	ND in	N
"	Mohawk Enpress Carpet adhesive	8 4-Gal	UO	Vinyl acrylic VOC's < 34 grams/liter	Room	N
"	Armstrong Tile adhesive - vinyl	4 4-Gal	UO + U	NO Hazardous ingredients	↓	N
"	Flextile 200 Ceramic tile adhesive	3 4-Gal	UO	Calcium Carbonate, Silica Sand, Petroleum Distillate	↓	N
	* Mohawk ingredients not listed - "proprietary ingredients"					
	+ Armstrong					
	* All containers new or used were sealed tight					
	* Space occupied by Insight Floor Covering.					

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Appendix E

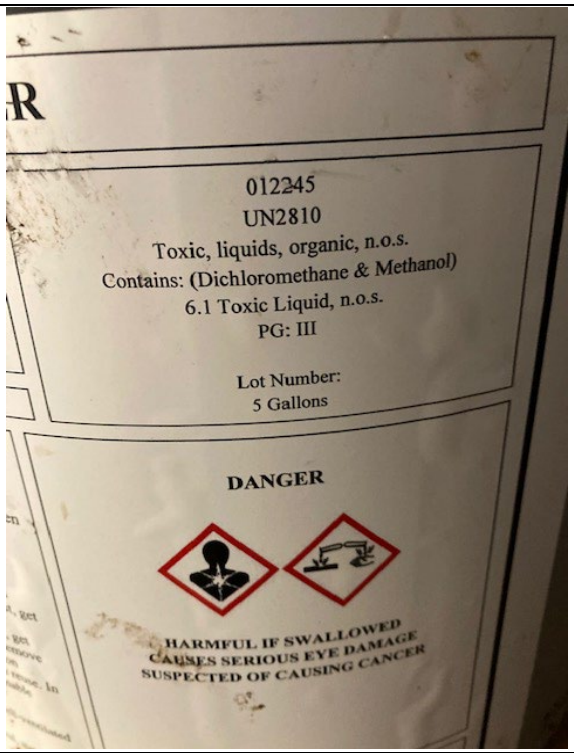
Furniture Refurbishing Shop Product Inventory Photographs



Flammable cabinet in furniture restoration shop.



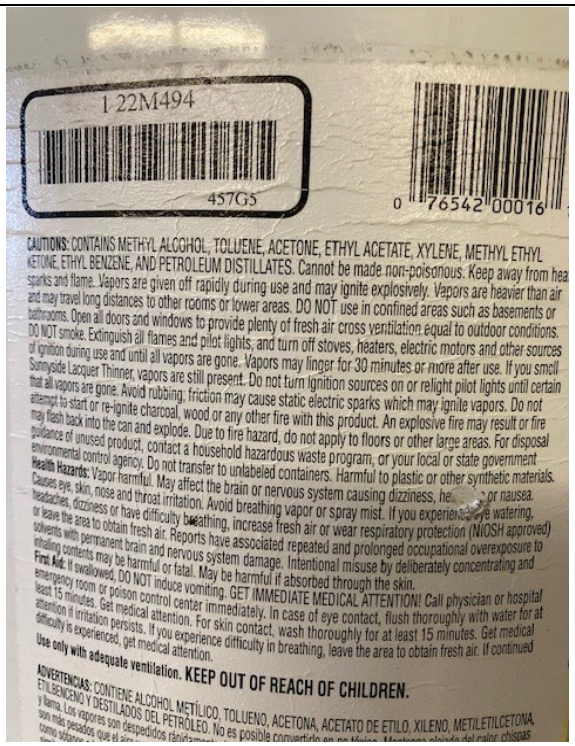
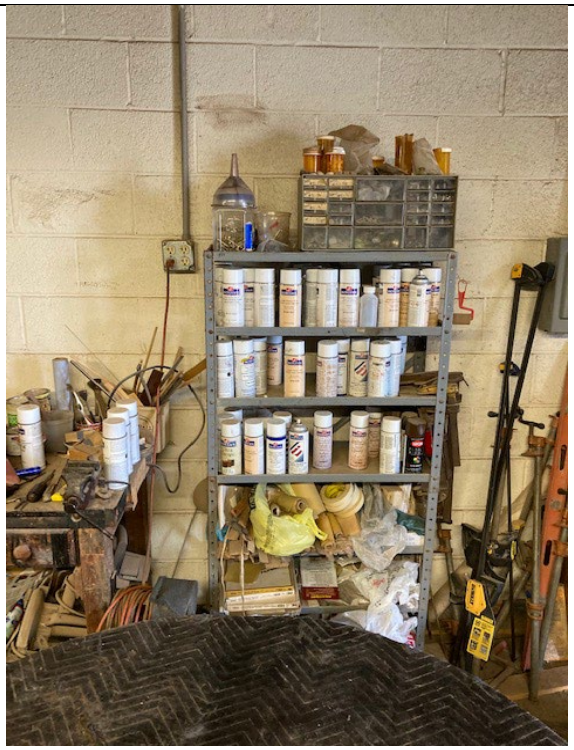
Furniture stripper containing Methylene Chloride.

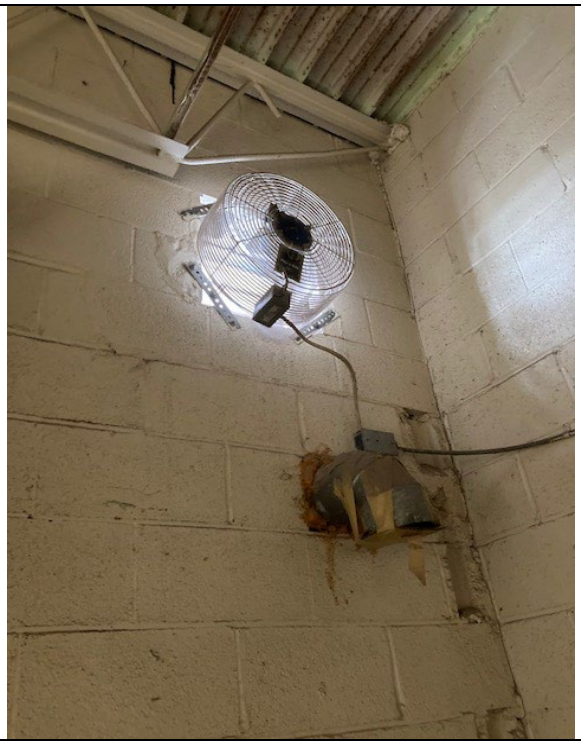


Ingredients on 2245 Stripper. Dichloromethane (a.k.a. Methylene Chloride) and Methanol



Uncovered 5-gallon pail containing what appears to be gelled furniture stripper (>3000 ppm).

	
Lacquer thinner containing toluene, xylene, MEK, ethylbenzene, ethyl acetate	Ingredients on lacquer thinner
	
Shelf containing Mohawk spray toner and finishes.	Dual compartment Diesel and Kerosene aboveground tank looking south.

	
Paint thinner and mineral spirits containing benzene, 1,2,4-trimethylbenzene, stoddard solvent	1 gallon can lacquer containing acetone, toluene, ethanol, xylene, ethyl benzene, n-butyl acetate
	
Lacquer, thinner and polisher products removed from flammable cabinet for inventory.	Ventilation exhaust fan inside furniture finishing shop.

APPENDIX B

SOIL BORING AND WELL CONSTRUCTION LOGS

LEADER PROFESSIONAL SERVICES

Environmental Engineers & Scientists

LOG OF BORING

BORING #: SB-1
Page 1 of 1
Permit #:
Job #: 235.198A

Project 235.198A
Location Bisonite Paint Military Road
Date Drilled 12/4
Drilling Co.: Cascade
Total Depth 20'
Method Used: Geoprobe
Inspector Rob Murphy
Organic Vapor Inst: MiniRAE 3000
Water elv: Unknown

Depth (feet)	Sample No.	Blows/6" 140 lbs.	Sample Inter.	Adv/Rec (feet)	Org. Vap (ppm)	Sample Description	Unified Class.	Permeability
	1	Push	0-5'		0.0	0-6" asphalt 6-12" gray clay/light brown **Sample 1'-2' Lab** 1-2' uniform dark brown clay-silt	CL CL/ML GM	
5	2	Push	5'-10'		0.0	1-4 brown silty clay with gravel. 5'-10' Brown Clay with sand some gravel (20%)	CL	
10	3	Push	10'-15'		0.0	10'-15' Reddish Brown Clay, Minor Sand Gravel (20%)	CL	
15	4	Push	15'-20'		0.0	Reddish brown sandy silt gravel (15%) 17'-18' noticeably wet **Sample 17'18' Lab**	ML	
20						20' point of refusal. Possible rock		

LEADER PROFESSIONAL SERVICES

Environmental Engineers & Scientists

BORING #: SB-2

LOG OF BORING

Page 1 of 1

Project 235.198A | Location Bisonite Paint Military Road | Permit #:

Date Drilled 12/4 | Drilling Co.: Cascade | Job #: 235.198A

Total Depth | Method Used: Geoprobe

Inspector Robert Murphy | Organic Vapor Inst: MiniRAE 3000 | Water elv: Unknown

Depth (feet)	Sample No.	Blows/6" 140 lbs.	Sample Inter.	Adv/Rec (feet)	Org. Vap (ppm)	Sample Description	Unified Class.	Permeability
	1	Push	0-5'		0.06	Odor: Solvent		
						0-1' Crumbly Asphalt		
						Sample 1'-2' Lab		
					328	1-' 5 clay litttle sand		
5	2	Push	5'-10'		0.7	**Sample 4'-6' Lab**	Fill	
						4'-5' white streaks (paint?)		
						5' piece of metal		
					2.2	5'-10' red clay, Hard		
10	3	Push	10'-15'			11'-13' wet, red clay		
					32	13'-15' silty clay		
						13'-15' wet, rock/gravel (20%)		
					25.8			
15	4	Push	15'-20'		24	15'-16' paint refuse		
					150	**Sample 15'-17' Lab**		
					6.5	16'-20' red clay, wet	CL	
					0.6			
20								

LEADER PROFESSIONAL SERVICES

Environmental Engineers & Scientists

BORING #: SB-3

LOG OF BORING

Page 1 of 1

Project 235.198A | Location Bisonite Paint Military Road | Permit #:

Date Drilled 12/4/19 | Drilling Co.: Cascade | Job #: 235.198A

Total Depth 20' | Method Used: Geoprobe

Inspector Robert Murphy | Organic Vapor Inst: MiniRAE 3000 | Water elv: Unknown

Depth (feet)	Sample No.	Blows/6" 140 lbs.	Sample Inter.	Adv/Rec (feet)	Org. Vap (ppm)	Sample Description	Unified Class.	Permeability
					0.5	0-2' asphalt		
	1	Push	0-5'		1.1	**Sample 1'-2' Lab**		
					7.5	4'-5' clay, contaminated, stains	Fill	
5					400	**Sample 4'-6' Lab**		
	2	Push	5'-10'			5' dried paint found		
					10	6'-8' wet, 60% recovery	Fill to 8 ft.?	
						8'-10' moist, soft gravelly		
10					9	10'-15' red clay silt		
	3	Push	10'-15'			**Sample 10'-12' Lab**	CL	
					8			
					3			
15					1	15-16 red dry clay		
	4	Push	15'-20'			17-20 red wet clay	CL	
					1			
					1			
20								

LEADER PROFESSIONAL SERVICES

Environmental Engineers & Scientists

LOG OF BORING

BORING #: SB-4
Page 1 of 1
Permit #:
Job #: 235.198A

Project 235.198A
Location Bisonite Paint Military Road
Date Drilled 12/4/19
Drilling Co.: Cascade
Total Depth 17'
Method Used: Geoprobe
Inspector Robert Murphy
Organic Vapor Inst: MiniRAE 3000
Water elv: Unknown

Depth (feet)	Sample No.	Blows/6" 140 lbs.	Sample Inter.	Adv/Rec (feet)	Org. Vap (ppm)	Sample Description	Unified Class.	Permeability
	1	Push	0-5'		0.0	0-1' asphalt **Sample 1'-2' Lab** 1'-3' born silty clay 3'-5' red clay		
5	2	Push	5'-10'		0.5 0.2 0.0 .5	6'-10' wet 6'-10' red silty clay 9'-10' fill	Poss. Fill 10'	
10	3	Push	10'-15'		2.0 2.0	10'-15' fill red clay wet	CL/ML	
15	4	Push	15'-17'		0.0	Sample 15'-16' Lab 15'-17' brown silty clay 15% gravel 17 ft end, black rock		
20								

LEADER PROFESSIONAL SERVICES

Environmental Engineers & Scientists

LOG OF BORING

BORING #: SB-5
Page 1 of 1

Project 235.198A | Location Bisonite Paint Military Road | Permit #:
Date Drilled 12/4/19 | Drilling Co.: Cascade | Job #: 235.198A
Total Depth 15' | Method Used: Geoprobe
Inspector Robert Murphy | Organic Vapor Inst: MiniRAE 3000 | Water elv: Unknown

Depth (feet)	Sample No.	Blows/6" 140 lbs.	Sample Inter.	Adv/Rec (feet)	Org. Vap (ppm)	Sample Description	Unified Class.	Permeability
	1	Push	0-5'		0.0	0-2' black chunks of asphalt	Poss. Fill to 5'	
						2'-3' gray crumbly soil		
						2'-3' white color rock fragments (25%)		
					0.0	**Sample 3'-5' Lab**		
5	2	Push	5'-10'		1.0	4'-7' brown silty clay	GM/CL	
					2.0	6-7 rock frag. (40%), wet		
					3.0	**Sample 7'-8' Lab**		
					2.0	7'-10' dry red clay gravel (15%)		
10	3	Push	10'-15'		0.0	10'-15' red glay gravel (10%)		
						10'-12' wet		
						Sample 12'-14' Lab		
					0.0	13'-14' dry		
15						14'-15' wet.		

LEADER PROFESSIONAL SERVICES

Environmental Engineers & Scientists

LOG OF BORING

BORING #: SB-6
Page 1 of 1

Project 235.198A | Location Bisonite Paint Military Road | Permit #:
Date Drilled 12/4/19 | Drilling Co.: Cascade | Job #: 235.198A
Total Depth 10' | Method Used: Geoprobe
Inspector Robert Murphy | Organic Vapor Inst: MiniRAE 3000 | Water elv: Unknown

Depth (feet)	Sample No.	Blows/6" 140 lbs.	Sample Inter.	Adv/Rec (feet)	Org. Vap (ppm)	Sample Description	Unified Class.	Permeability
	1	Push	0-5'		0.0	0-2' Gravel (85%)		
						Sample 3'-4' Lab		
						2'-4' Sandy clay, orange and brown	SM/CL	
					0.0	2'-4' wet		
5					0.0	4'-5' sandy clay wet		
	2	Push	5'-10'			5'-6' 75% gravel	GM	
					0.0	**Sample 6'-8' Lab**		
						6'-8' clay wet		
10						8'-10' dry clay	CL	
						10' wet.		

LEADER PROFESSIONAL SERVICES

Environmental Engineers & Scientists

BORING #: SB-7

LOG OF BORING

Page 1 of 1

Project 235.198A Location Bisonite Paint Military Road Permit #:

Date Drilled 12/4/19 Drilling Co.: Cascade Job #: 235.198A

Total Depth 15' Method Used: Geoprobe

Inspector Robert Murphy Organic Vapor Inst: MiniRAE 3000 Water elv: Unknown

Depth (feet)	Sample No.	Blows/6" 140 lbs.	Sample Inter.	Adv/Rec (feet)	Org. Vap (ppm)	Sample Description	Unified Class.	Permeability
	1	Push	0-5'		800+	0-6' Asphalt gray clay sand paint material	Fill to 8 ft.	
5	2	Push	5'-10'		43	**Sample 4'-5' Lab** 6'-7' light gray clayey poss. Fill 6'-7' paint material **Sample 6'-8' Lab**		
10	3	Push	10'-15'		5.0 1.5	Brown/Gray tight clay **Sample 10'-12' Lab** Brown Tight Clay	CL CL	
15						dark wet sandy		

LEADER PROFESSIONAL SERVICES

Environmental Engineers & Scientists

LOG OF BORING

BORING #: SB-8
Page 1 of 1

Project 235.198A | Location Bisonite Paint Military Road | Permit #:
Date Drilled 12/4/19 | Drilling Co.: Cascade | Job #: 235.198A
Total Depth 15' | Method Used: Geoprobe
Inspector Robert Murphy | Organic Vapor Inst: MiniRAE 3000 | Water elv: Unknown

Depth (feet)	Sample No.	Blows/6" 140 lbs.	Sample Inter.	Adv/Rec (feet)	Org. Vap (ppm)	Sample Description	Unified Class.	Permeability
	1	Push	0-5'		0.0	0-1' grass+topsoil		
						Sample 1'-2' Lab		
					0.0	1'-2' clay brown	CL	
					0.0	3'-4' wet		
5	2	Push	5'-10'		0.0	4'-5' dry clay	ML	
						5'-10' red silt dry little rocks frag.		
						Sample 6'-8' Lab		
					0.0			
10	3	Push	10'-15'		0.0	10'-15' red silt	ML	
					00	15' ft boring ended.		
15								

LEADER PROFESSIONAL SERVICES

Environmental Engineers & Scientists

BORING #: SB-9

LOG OF BORING

Page 1 of 1

Project 235.198A Location Bisonite Paint Military Road Permit #:

Date Drilled 12/4/19 Drilling Co.: Cascade Job #: 235.198A

Total Depth 15' Method Used: Geoprobe

Inspector Robert Murphy Organic Vapor Inst: MiniRAE 3000 Water elv: Unknown

Depth (feet)	Sample No.	Blows/6" 140 lbs.	Sample Inter.	Adv/Rec (feet)	Org. Vap (ppm)	Sample Description	Unified Class.	Permeability
					0.0	0-2' asphalt, rock fill		
	1	Push	0-5'			**Sample 2'-4' Lab**		
					0.0	2'-5' hard red silty clay, little sand	Fill?	
					0.0			
5					0.0	5'-10' hard sandy clay with poss.	Fill?	
	2	Push	5'-10'			concrete frag.		
					0.0			
10					0.0	11'-13' red sandy silt	SM/ML	
	3	Push	10'-15'			**Sample 11'-13' Lab**		
						13'-15' clay	CL	
					00	15' ft terminate		
15								

LEADER PROFESSIONAL SERVICES

Environmental Engineers & Scientists

LOG OF BORING

BORING #: SB-10
Page 1 of 1
Permit #:
Job #: 235.198A

Project 235.198A
Location Bisonite Paint Military Road
Date Drilled 12/4/19
Drilling Co.: Cascade
Total Depth 15'
Method Used: Geoprobe
Inspector Robert Murphy
Organic Vapor Inst: MiniRAE 3000
Water elv: Unknown

Depth (feet)	Sample No.	Blows/6" 140 lbs.	Sample Inter.	Adv/Rec (feet)	Org. Vap (ppm)	Sample Description	Unified Class.	Permeability
					0.0	0-2' asphalt, gravel fill		
	1	Push	0-5'			**Sample 2'-4' Lab**	Fill	
					0.0	3'-5' red silty clay gravel (18%)		
					0.0		CL/GM	
5					0.0	6'-10' red silty clay		
	2	Push	5'-10'			6'-10' gravel (20%) some sand	SM/GM	
					0.0			
10					0.0	11'-13' wet		
	3	Push	10'-15'			**Sample 12'-14' Lab**	GM	
						11'-15' red clay gravel (5%)		
					00	15' ft boring ended		
15								

LEADER PROFESSIONAL SERVICES

Environmental Engineers & Scientists

BORING #: SB-11

LOG OF BORING

Page 1 of 1

Project 235.198A | Location Bisonite Paint Military Road | Permit #:

Date Drilled 12/4/19 | Drilling Co.: Cascade | Job #: 235.198A

Total Depth 10' | Method Used: Geoprobe

Inspector Robert Murphy | Organic Vapor Inst: MiniRAE 3000 | Water elv: Unknown

Depth (feet)	Sample No.	Blows/6" 140 lbs.	Sample Inter.	Adv/Rec (feet)	Org. Vap (ppm)	Sample Description	Unified Class.	Permeability
	1	Push	0-5'		0.0	0-6" asphalt		
						Sample 1'-2' Lab		
					0.0	2'-4' brown silt/clay	ML/CL	
					0.0			
5	2	Push	5'-10'		0.0	6'-10' light brown tight clay little gravel (5%)		
						Sample 6'-8' Lab	CL	
					0.0	**Boring ended 10 ft.**		
10								

1/26/20 Visonite Paint

on-site 8:49 am
w/ Cascade Drilling
- Blake + Co
- AFC Rep Dave B.

35°, Partly Cloudy
Light Snow cover on grass, lt muddy clay

Camp (Down)
- South Monitor 831651
Stamped @ 9:41 + C.C. 1st read
C.C. PID

- No. West Monitor 16818
Stamped @ 9:43 Diff Safety
C.C. 1st read, C.C. PID

10:05 Drill high Vacuum on site
Start to Move MW to East
Side (Upwind) Screen @ 5-15

10:26 MW-1 Stamped
Retrieval @ 12', Tight clay from 1-12'
installing Screen 3-12'
No Water

MW-2
11:20 Stamped
Ten minutes after the site sign
up with
Auger 2" ID
Retrieval @ 14', Screen 4-14

MW-3
Stamped @ 12:17, Between Nos 203/202
PID 22.6 → 20.2 5-10'
Visual Discoloration Paint 5-7'
PID 76.3 @ 5-7', Samples Collected
Retrieval @ 14', Screen 4-14
PID @ 18.6 @ 14'
Tight, Dense Clay 9-14'

MW-4
Stamped @ 2:17, 15' of
PID 93.6 @
Samples collected 8-10', Tight + PID
Tight dense clay 8.5-15', Wet wood
15'

Bisonite

1-27-20 Snow 32°

Arrive @ 8:00

Rm taking water level

MW-4 Unknown product level ± 21"

MW1 Pump dry start @ 9:30

T 5.7°C

Do 7.8 mg/L

Spc. 1.09 mm/s

pH 7.3

ORP 218.9

NTU 10.8

MW3	1145	1057
T	4.6C	4.7°
Do	4.4	2.6
Spc mS	0.47	0.52
pH	8.9	8.5
ORP	111.5	-87.5
NTU	102.8	59

MW3

1110		1#:15
T	4.9C	5°
Do	1.47	1.27
Spc	0.65	6.73
pH	9.0	8.8
ORP	-30.5	-32.0
NTU	47	47

MW4

Geophy cood 50 E

20 S

1235 MW5	1245	
T	6.3	7.0
Do	5.12	4.5
pH	7.5	7.3
Spc mS/cm	1.3	1.3
ORP	141	165.0
NTU	6.1	1.0

1300

T 5.6C

Do 4.4

Spc 1.39

pH 7.2

ORP 182.6

NTU 0

?

Onsite
1-28-20
820 Onsite
@ well MW 5
Cold 30° Cloudy snow light

835 MW5 complete
8:40 MW1 only 6" water from over night

called DEC regarding MW1 and they are ok with stopping the sampling w/ VOC, PCB, Mt

EMR
2-5-20
6:20 Onsite 33° Wind NW-10mph set up air monitoring one yard opposite bunkers and at trailer

650 Kim from Genesee Env onsite

7:05 1st 2 trucks arrive

7:29 EQUIP ARRIVED

unit 42665 Downwind
unit 22257 Upwind
@ 7:35 Recal Upwind
@ 7:38 Recal Downwind

first truck gone @ 8:22
36 min to load

851 2nd gone

APPENDIX C

LABORATORY PACKAGES

SOIL ANALTICAL RESULTS

January 10, 2020 Service Request No:R1911944

Mr. Peter von Schondorf
Leader Professional Services, Inc.
271 Marsh Road
Suite 2
Pittsford, NY 14534

Laboratory Results for: Tonawanda Bisonite Paint

Dear Mr.von Schondorf,

Enclosed are the results of the sample(s) submitted to our laboratory December 05, 2019
For your reference, these analyses have been assigned our service request number **R1911944.**

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Janice Jaeger
Project Manager

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Narrative Documents

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Environmental

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil, Water

Service Request: R1911944
Date Received: 12/05/2019

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

Five soil, water samples were received for analysis at ALS Environmental on 12/05/2019. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Semivolatiles by GC/MS:

No significant anomalies were noted with this analysis.

General Chemistry:

No significant anomalies were noted with this analysis.

Subcontracted Analytical Parameters:

No significant anomalies were noted with this analysis.

Approved by _____ Date 01/10/2020

SAMPLE DETECTION SUMMARY

CLIENT ID: SB3 10-12			Lab ID: R1911944-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	87.7				Percent	ALS SOP

CLIENT ID: SB8 1-2			Lab ID: R1911944-004			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	86.8				Percent	ALS SOP

CLIENT ID: SB9 2-4			Lab ID: R1911944-005			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	89.5				Percent	ALS SOP

Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Leader Professional Services, Inc. **Service Request:**R1911944

Project: Tonawanda Bisonite Paint

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R1911944-001	SB3 10-12	12/4/2019	1150
R1911944-002	PFAS Field Blank	12/5/2019	1500
R1911944-003	Field Blank S	12/5/2019	1530
R1911944-004	SB8 1-2	12/5/2019	0915
R1911944-005	SB9 2-4	12/5/2019	1140

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

SR# _____

001, 003

T058814

ALS Environmental

1565 Jefferson Road, Bldg 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 / FAX (585) 288-8475
www.alsglobal.com

Project Name: Tonawanda Bisonite Paint	
Project Number:	Report To: Peter von Schondorf
Company / Address: Leader Professional Services, Inc. 271 Marsh Road Suite 2 Pittsford NY, 14534	
Phone # 585-248-2413	FAX #
Sampler Signature	Sampler Printed Name: Bob Murphy

CLIENT SAMPLE ID	SAMPLING Date	Time	Matrix (Circle One)	NUMBER OF CONTAINERS	7D 8081B / Pest OC	8082A / PCB	8151A / HERB	8270D / SVO	8270D SIM / 1,4-Dioxane	PFC/537M / PFAS	14D 8260C / VOC FP	9012B / CN Tot	28D 7470A / Hg T	180D 6010C / TAL Metals	Remarks
SB2 7-2	12/4/19	10:45	Soil / Water	7	✓	✓	✓	✓			✓	✓	✓	✓	* High VOC
SB2 MW 4-6	12/4/19	10:50	Soil / Water	7	✓	✓	✓	✓			✓	✓	✓	✓	
SB2 12-17	12/4/19	11:30	Soil / Water	7	✓	✓	✓	✓			✓	✓	✓	✓	
SB3 1-3	12/4/19	12:30	Soil / Water	7	✓	✓	✓	✓			✓	✓	✓	✓	
SB3 4-6	12/4/19	12:40	Soil / Water	7	✓	✓	✓	✓			✓	✓	✓	✓	* High VOC
SB3 10-12	12/4/19	13:05	Soil / Water	10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Trip Blank	12/3/19	07:10	Soil / Water	3							✓				
Trip Blank	12/3/19	07:10	Soil / Water	3							✓				
			Soil / Water												
			Soil / Water												

Special Instructions/Comments:

TAL Metals:
Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, Sb, Se, Tl, V, Zn

Login PFAS / 1,4-Dioxane on Separate SDG

Turnaround Requirements

___ RUSH (SURCHARGES APPLY)
✓ Standard

REQUESTED FAX DATE

Requested Report Date

Report Requirements

___ I. Results Only
___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Cilibration Summaries
X IV. Data Validation Report with Raw Data

EData X Yes ___ No
NYSDEC Equis v.4

Invoice Information

P.O.# 235198A

Bill To: _____

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: Bob Murphy	Printed Name	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Leader	Firm: ALS	Firm	Firm	Firm	Firm
Date/Time: 12/5/19 1705	Date/Time: 12/5/19 / 1705	Date/Time	Date/Time	Date/Time	Date/Time

R1911944 5
Leader Professional Services, Inc.
Tonawanda Bisonite Paint

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

SR# T058814

001, 003

ALS Environmental
1565 Jefferson Road, Bldg 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 / FAX (585) 288-8475
www.alsglobal.com

Project Name: Tonawanda Bisonite Paint	
Project Number: 235, 198A	Report To: Peter von Schondorf
Company / Address: Leader Professional Services, Inc. 271 Marsh Road Suite 2 Pittsford NY, 14534	
Phone # 585-248-2413	FAX #
Sampler Signature	Sampler Printed Name: Rob Murphy

CLIENT SAMPLE ID	SAMPLING Date	Time	Matrix (Circle One)	NUMBER OF CONTAINERS	8081B / Pest OC (7D)	8082A / PCB (7D)	8151A / HERB (7D)	8270D / SVO +20 (7D)	8270D SIM / 1,4-Dioxane (7D)	PFC/537M / PFAS (7D)	8260C / VOC FP+10 (14D)	9012B / CN Tot (28D)	7470A / Hg T (28D)	6010C / TAL Metals (180D)	Remarks
SB1 1-2	12/4/19	9:45A	Soil / Water	7	✓	✓	✓	✓			✓	✓	✓	✓	
SB1 17-18	12/4/19	10:11	Soil / Water	7	✓	✓	✓	✓			✓	✓	✓	✓	
SS-1	12/4/19	13:06	Soil / Water	3	✓	✓		✓				✓	✓	✓	
SS-2	12/4/19	13:06	Soil / Water	3	✓	✓	✓	✓				✓	✓	✓	
SS-3	12/4/19	14:06	Soil / Water	3	✓	✓	✓	✓				✓	✓	✓	
SS-4	12/4/19	14:17	Soil / Water	3	✓	✓	✓	✓				✓	✓	✓	
PFAS Field Blank	12/5/19	1500	Soil / Water	1	✓	✓	✓	✓				✓	✓	✓	
FB6B Field Blank	12/5/19	1500	Soil / Water	17	✓	✓	✓	✓				✓	✓	✓	
Field Blank S	12/5/19	1550	Soil / Water	17	✓	✓	✓	✓	✓	✓ PVS		✓	✓	✓	
			Soil / Water												

Special Instructions/Comments:

TAL Metals:
Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, Sb, Se, Tl, V, Zn

Login PFAS / 1,4-Dioxane on Separate SDG

Turnaround Requirements

___ RUSH (SURCHARGES APPLY)

✓ Standard

REQUESTED FAX DATE

Requested Report Date

Report Requirements

___ I. Results Only
___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
X IV. Data Validation Report with Raw Data

EData X Yes ___ No
NYSDEC Equis v.4

Invoice Information

P.O.# 235198A

Bill To:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: Rob Murphy	Printed Name: Daniel Wnek	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Leader	Firm: ALS	Firm	Firm	Firm	Firm
Date/Time: 12/5/19 1205	Date/Time: 12/5/19 1705	Date/Time	Date/Time	Date/Time	Date/Time

R1911944 5
Leader Professional Services, Inc.
Tonawanda Bisonite Paint

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

SR# _____

ALS Environmental

1565 Jefferson Road, Bldg 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 / FAX (585) 288-8475
www.alsglobal.com

001, 003

T058814

Project Name: Tonawanda Bisonite Paint	
Project Number:	Report To: Peter von Schondorf
Company / Address: Leader Professional Services, Inc. 271 Marsh Road Suite 2 Pittsford NY, 14534	
Phone # 585-248-2413	FAX #
Sampler Signature	Sampler Printed Name: Rob Murphy

CLIENT SAMPLE ID	SAMPLING Date	Time	Matrix (Circle One)	NUMBER OF CONTAINERS	8081B / Pest OC	8082A / PCB	8151A / HERB	8270D / SVO	8270D SIM / 1,4-Dioxane	PFC/537M / PFAS	8260C / VOC FP	9012B / CN Tot	7470A / Hg T	6010C / TAL Metals	Remarks
SB8 1-2	12/5/2019	9:15	Soil / Water	10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
SB2 6-8	12/5/19	944	Soil / Water	7	✓	✓	✓	✓			✓	✓	✓	✓	
SB11 1-2	12/5/19		Soil / Water	7	✓	✓	✓	✓			✓	✓	✓	✓	
SB11 6-8	12/5/19		Soil / Water	7	✓	✓	✓	✓			✓	✓	✓	✓	
SB11 6-8 Dup	12/5/19		Soil / Water	7	✓	✓	✓	✓			✓	✓	✓	✓	
SB11 6-8 Spike	12/5/19		Soil / Water	7	✓	✓	✓	✓			✓	✓	✓	✓	
SB11 6-8 Spike Dup	12/5/19		Soil / Water	7	✓	✓	✓	✓			✓	✓	✓	✓	
FB	12/5/19		Soil / Water	7	✓	✓									
			Soil / Water												
			Soil / Water												

Special Instructions/Comments:

TAL Metals:
Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, Sb, Se, Tl, V, Zn

Login PFAS / 1,4-Dioxane on Separate SDG

Turnaround Requirements

___ RUSH (SURCHARGES APPLY)

✓ Standard

REQUESTED FAX DATE

Requested Report Date

Report Requirements

___ I. Results Only
___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Cilibration Summaries
X IV. Data Validation Report with Raw Data

EData X Yes ___ No
NYSDEC Equis v.4

Invoice Information

P.O.# 2519881

Bill To: _____

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: Rob Murphy	Printed Name: Daniel Ward	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Leader	Firm: ALS	Firm	Firm	Firm	Firm
Date/Time: 12/5/19 1705	Date/Time: 12/5/19 1705	Date/Time	Date/Time	Date/Time	

R1911944 5
Leader Professional Services, Inc.
Tonawanda Bisonite Paint

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

SR# T058814

001, 003

ALS Environmental
1565 Jefferson Road, Bldg 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5330 / FAX (585) 288-8475
www.alsglobal.com

Project Name: Tonawanda Bisonite Paint	
Project Number:	Report To: Peter von Schondorf
Company / Address: Leader Professional Services, Inc. 271 Marsh Road Suite 2 Pittsford NY, 14534	
Phone # 585-248-2413	FAX #
Sampler Signature	Sampler Printed Name: Rob Murphy

CLIENT SAMPLE ID.	SAMPLING Date	Time	Matrix (Circle One)	NUMBER OF CONTAINERS	7D: 8081B / Pest OC	8082A / PCB	8151A / HERB	8270D / SVO	8270D SIM / 1,4-Dioxane	PFC/537M / PFAS	14D: 8260C / VOC FP	9012B / CN Tot	28D: 7470A / Hg T	180D: 6010C / TAL Metals	Remarks
SB9 2-4	12/5/19	11:40	Soil / Water	10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
SB9 11-13	12/5/19	11:50	Soil / Water	1	✓	✓	✓	✓			✓	✓	✓	✓	
SB10 2-4	12/5/19	12:20	Soil / Water	1	✓	✓	✓	✓			✓	✓	✓	✓	
SB10 12-14	12/5/19	12:30	Soil / Water	1	✓	✓	✓	✓			✓	✓	✓	✓	
			Soil / Water												
			Soil / Water												
			Soil / Water												
			Soil / Water												
			Soil / Water												
			Soil / Water												

Special Instructions/Comments:

TAL Metals:
Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, Sb, Se, Tl, V, Zn

Login PFAS / 1,4-Dioxane on Separate SDG

Turnaround Requirements

___ RUSH (SURCHARGES APPLY)
✓ Standard

REQUESTED FAX DATE

Requested Report Date

Report Requirements

___ I. Results Only
___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
X IV. Data Validation Report with Raw Data

EData X Yes ___ No
NYSDEC Equis v.4

Invoice Information

P.O.# 235198 A9

Bill To:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: Rob Murphy	Printed Name: Daniel Ward	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Leader	Firm: ALS	Firm	Firm	Firm	Firm
Date/Time: 12/5/19 1705	Date/Time: 12/5/19 1705	Date/Time	Date/Time	Date/Time	Date/Time

R1911944 5
Leader Professional Services, Inc.
Tonawanda Bisonite Paint

Cooler Receipt and Preservation Check Form

Project/Client Leader Folder Number .

Cooler received on 12/5/19 by: dlw

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	Y (N)	5a	**Perchlorate** samples have required headspace?	Y N (NA)
2	**Custody papers** properly completed (ink, signed)?	(Y) N	5b	Did (VOA) vials, Alk,or Sulfide have sig* **bubbles**?	(Y) N NA
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N	6	Where did the bottles originate?	ALS/ROC CLIENT
4	Circle: ~~Wet Ice~~ **Dry Ice Gel packs** present?	(Y) N	7	Soil VOA received as:	Bulk Encore 5035set NA

3. Temperature Readings Date: 12/5/19 Time: 1740 ID: IR#7 IR#10 From: Temp Blank ~~Sample Bottle~~

Observed Temp (°C)	3.1°	3.0	19.9	19.1°	4.6°	2.8°	5.8°
Within 0-6°C?	(Y) N	(Y) N	Y (N)**	Y (N)	(Y) N	(Y) N	(Y) N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) ~~Same Day Rule~~

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R002 by dlw on 12/5/19 at 1740
5035 samples placed in storage location: _____ by _____ on _____ at _____

Cooler Breakdown/Preservation Check**: Date: 12/9/19 Time: 1915 by: dlw

9. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
10. Did all bottle labels and tags agree with custody papers? (YES) NO
11. Were correct containers used for the tests indicated? (YES) NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO (N/A)
13. Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized Tedlar® Bags Inflated (N/A)

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2		HNO_3								
≤2		H_2SO_4								
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-			**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).			
		HCl	**	**						

Bottle lot numbers: 080519-1SR, 101419-1BC

Explain all Discrepancies/ Other Comments:

** 1 Vial for the trip blank.

HPROD	BULK
HTR	FLDT
(SUB)	HGFB
ALS	LL3541

Labels secondary reviewed by: SM

PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: Leader Professional Services, Inc. **Service Request:** R1911944
Project: Tonawanda Bisonite Paint

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R1911944-001.01					
	PFC/537M,PFC/537M				
		12/9/2019	1914	SMO / DWARD	
		12/11/2019	1617	K-SOIL PREP / SMO2	
		12/11/2019	1618	SOIL 121 / SMO2	
		12/12/2019	1317	K-DELILAH / TANDREWS	
R1911944-001.02					
	8270D,ALS SOP				
		12/9/2019	1914	SMO / DWARD	
		12/17/2019	0808	In Lab / KSERCU	
		12/17/2019	1634	R-002 / KSERCU	
R1911944-001.03					
		12/9/2019	1918	SMO / DWARD	
		12/11/2019	1617	K-SOIL PREP / SMO2	
		12/11/2019	1618	SOIL 121 / SMO2	
		12/12/2019	1317	K-DELILAH / TANDREWS	
R1911944-002.03					
	PFC/537M				
		12/9/2019	1914	SMO / DWARD	
		12/12/2019	0931	In Lab / AKONOPKO	
		12/12/2019	1434	K-Disposed / AKONOPKO	
R1911944-003.01					
	8270D SIM				
		12/9/2019	1914	SMO / DWARD	
		12/10/2019	0845	In Lab / AFELSER	
		12/10/2019	1407	R-002 / AFELSER	
R1911944-004.01					
	PFC/537M,PFC/537M				
		12/9/2019	1914	SMO / DWARD	
		12/11/2019	1617	K-SOIL PREP / SMO2	
		12/11/2019	1618	SOIL 121 / SMO2	
		12/12/2019	1317	K-DELILAH / TANDREWS	
R1911944-004.02					
	8270D,ALS SOP				
		12/9/2019	1914	SMO / DWARD	
		12/17/2019	0807	In Lab / KSERCU	
		12/17/2019	0808	In Lab / KSERCU	
		12/17/2019	1634	R-002 / KSERCU	
R1911944-004.03					

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: Leader Professional Services, Inc. **Service Request:** R1911944
Project: Tonawanda Bisonite Paint

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		12/9/2019	1918	SMO / DWARD	
		12/11/2019	1617	K-SOIL PREP / SMO2	
		12/11/2019	1619	SOIL 121 / SMO2	
		12/12/2019	1317	K-DELILAH / TANDREWS	
R1911944-005.01					
	PFC/537M,PFC/537M				
		12/9/2019	1914	SMO / DWARD	
		12/11/2019	1617	K-SOIL PREP / SMO2	
		12/11/2019	1618	SOIL 121 / SMO2	
		12/12/2019	1317	K-DELILAH / TANDREWS	
R1911944-005.02					
	8270D,ALS SOP				
		12/9/2019	1914	SMO / DWARD	
		12/17/2019	0807	In Lab / KSERCU	
		12/17/2019	0808	In Lab / KSERCU	
		12/17/2019	1634	R-002 / KSERCU	
R1911944-005.03					
		12/9/2019	1918	SMO / DWARD	
		12/11/2019	1617	K-SOIL PREP / SMO2	
		12/11/2019	1619	SOIL 121 / SMO2	
		12/12/2019	1317	K-DELILAH / TANDREWS	

Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.

J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).

B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.

E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.

E Organics- Concentration has exceeded the calibration range for that specific analysis.

D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.

* Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.

H Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.

Spike was diluted out.

\+ Correlation coefficient for MSA is <0.995.

N Inorganics- Matrix spike recovery was outside laboratory limits.

N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.

S Concentration has been determined using Method of Standard Additions (MSA).

W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.

P Concentration >40% difference between the two GC columns.

C Confirmed by GC/MS

Q DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).

X See Case Narrative for discussion.

MRL Method Reporting Limit. Also known as:
LOQ Limit of Quantitation (LOQ)
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.

MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).

LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.

ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

[1] Analyses were performed according to our laboratoryôs NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: Leader Professional Services, Inc. **Service Request:** R1911944
Project: Tonawanda Bisonite Paint

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
ALS SOP	Soil	Total Solids

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911944
Project:	Tonawanda Bisonite Paint/		

Sample Name:	SB3 10-12	**Date Collected:**	12/4/19
Lab Code:	R1911944-001	**Date Received:**	12/5/19
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		GKNIGHT
PFC/537M	KLMILLER	LDOMREIS

Sample Name:	SB3 10-12	**Date Collected:**	12/4/19
Lab Code:	R1911944-001.R01	**Date Received:**	12/5/19
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
PFC/537M	KLMILLER	LDOMREIS

Sample Name:	PFAS Field Blank	**Date Collected:**	12/5/19
Lab Code:	R1911944-002	**Date Received:**	12/5/19
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
PFC/537M	AKONOPKO	LDOMREIS

Sample Name:	Field Blank S	**Date Collected:**	12/5/19
Lab Code:	R1911944-003	**Date Received:**	12/5/19
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8270D SIM	AFELSER	AFELSER

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911944
Project:	Tonawanda Bisonite Paint/		

Sample Name:	SB8 1-2	**Date Collected:**	12/5/19
Lab Code:	R1911944-004	**Date Received:**	12/5/19
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		GKNIGHT
PFC/537M	KLMILLER	LDOMREIS

Sample Name:	SB8 1-2	**Date Collected:**	12/5/19
Lab Code:	R1911944-004.R01	**Date Received:**	12/5/19
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
PFC/537M	KLMILLER	LDOMREIS

Sample Name:	SB9 2-4	**Date Collected:**	12/5/19
Lab Code:	R1911944-005	**Date Received:**	12/5/19
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		GKNIGHT
PFC/537M	KLMILLER	LDOMREIS

Sample Name:	SB9 2-4	**Date Collected:**	12/5/19
Lab Code:	R1911944-005.R01	**Date Received:**	12/5/19
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
PFC/537M	KLMILLER	LDOMREIS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	

Sample Results

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911944
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:50
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB3 10-12	**Units:**	ug/Kg
Lab Code:	R1911944-001	**Basis:**	Dry

Low Level Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	77 U	77	12	1	12/18/19 16:42	12/17/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	68	10 - 115	12/18/19 16:42	
Nitrobenzene-d5	85	10 - 130	12/18/19 16:42	
p-Terphenyl-d14	80	10 - 130	12/18/19 16:42	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911944
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 09:15
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB8 1-2	**Units:**	ug/Kg
Lab Code:	R1911944-004	**Basis:**	Dry

Low Level Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	77 U	77	12	1	12/18/19 17:11	12/17/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	64	10 - 115	12/18/19 17:11	
Nitrobenzene-d5	73	10 - 130	12/18/19 17:11	
p-Terphenyl-d14	68	10 - 130	12/18/19 17:11	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911944
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 11:40
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB9 2-4	**Units:**	ug/Kg
Lab Code:	R1911944-005	**Basis:**	Dry

Low Level Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	76 U	76	12	1	12/18/19 17:41	12/17/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	79	10 - 115	12/18/19 17:41	
Nitrobenzene-d5	92	10 - 130	12/18/19 17:41	
p-Terphenyl-d14	89	10 - 130	12/18/19 17:41	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911944
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 15:30
Sample Matrix:	Water	**Date Received:**	12/05/19 17:05
Sample Name:	Field Blank S	**Units:**	ug/L
Lab Code:	R1911944-003	**Basis:**	NA

1,4-Dioxane by GC/MS

Analysis Method: 8270D SIM
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	0.040 U	0.040	0.027	1	12/11/19 18:25	12/10/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,4-Dioxane-d8	97	64 - 124	12/11/19 18:25	

General Chemistry

ALS Environmental—Rochester Laboratory
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www.alsglobal.com

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911944
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:50
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB3 10-12	**Basis:**	As Received
Lab Code:	R1911944-001		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**87.7**	Percent	-	-	1	12/11/19 10:25	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911944
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 09:15
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB8 1-2	**Basis:**	As Received
Lab Code:	R1911944-004		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**86.8**	Percent	-	-	1	12/11/19 10:25	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911944
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 11:40
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB9 2-4	**Basis:**	As Received
Lab Code:	R1911944-005		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**89.5**	Percent	-	-	1	12/11/19 10:25	

QC Summary Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Leader Professional Services, Inc. **Service Request:** R1911944
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY
Low Level Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3541

Sample Name	Lab Code	2-Fluorobiphenyl 10-115	Nitrobenzene-d5 10-130	p-Terphenyl-d14 10-130
SB3 10-12	R1911944-001	68	85	80
SB8 1-2	R1911944-004	64	73	68
SB9 2-4	R1911944-005	79	92	89
Method Blank	RQ1914660-01	83	95	88
Lab Control Sample	RQ1914660-02	82	90	80
Duplicate Lab Control Sample	RQ1914660-03	72	77	71

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911944
Project:	Tonawanda Bisonite Paint	**Date Analyzed:**	12/18/19 15:15
Sample Matrix:	Soil	**Date Extracted:**	12/17/19

Method Blank Summary
Low Level Semivolatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Instrument ID:**	R-MS-53
Lab Code:	RQ1914660-01	**File ID:**	I:\ACQUDATA\5973C\DATA\121819\CA039.D\
Analysis Method:	8270D	**Analysis Lot:**	664156
Prep Method:	EPA 3541	**Extraction Lot:**	350614

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1914660-02	I:\ACQUDATA\5973C\DATA\121819\CA040.D\	12/18/19 15:43
Duplicate Lab Control Sample	RQ1914660-03	I:\ACQUDATA\5973C\DATA\121819\CA041.D\	12/18/19 16:13
SB3 10-12	R1911944-001	I:\ACQUDATA\5973C\DATA\121819\CA042.D\	12/18/19 16:42
SB8 1-2	R1911944-004	I:\ACQUDATA\5973C\DATA\121819\CA043.D\	12/18/19 17:11
SB9 2-4	R1911944-005	I:\ACQUDATA\5973C\DATA\121819\CA044.D\	12/18/19 17:41

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911944
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914660-01	**Basis:**	Dry

Low Level Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	69 U	69	10	1	12/18/19 15:15	12/17/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	83	10 - 115	12/18/19 15:15	
Nitrobenzene-d5	95	10 - 130	12/18/19 15:15	
p-Terphenyl-d14	88	10 - 130	12/18/19 15:15	

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911944
Project:	Tonawanda Bisonite Paint	**Date Analyzed:**	12/18/19 15:43
Sample Matrix:	Soil	**Date Extracted:**	12/17/19

Lab Control Sample Summary
Low Level Semivolatile Organic Compounds by GC/MS

Sample Name:	Lab Control Sample	**Instrument ID:**	R-MS-53
Lab Code:	RQ1914660-02	**File ID:**	I:\ACQUDATA\5973C\DATA\121819\CA040.D\
Analysis Method:	8270D	**Analysis Lot:**	664156
Prep Method:	EPA 3541	**Extraction Lot:**	350614

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ1914660-01	I:\ACQUDATA\5973C\DATA\121819\CA039.D\	12/18/19 15:15
Duplicate Lab Control Sample	RQ1914660-03	I:\ACQUDATA\5973C\DATA\121819\CA041.D\	12/18/19 16:13
SB3 10-12	R1911944-001	I:\ACQUDATA\5973C\DATA\121819\CA042.D\	12/18/19 16:42
SB8 1-2	R1911944-004	I:\ACQUDATA\5973C\DATA\121819\CA043.D\	12/18/19 17:11
SB9 2-4	R1911944-005	I:\ACQUDATA\5973C\DATA\121819\CA044.D\	12/18/19 17:41

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

Service Request: R1911944
Date Analyzed: 12/18/19

Duplicate Lab Control Sample Summary
Low Level Semivolatile Organic Compounds by GC/MS

Units:ug/Kg
Basis: Dry

			Lab Control Sample			Duplicate Lab Control Sample				
			RQ1914660-02			RQ1914660-03				
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,4-Dioxane	8270D	142	204	70	112	211	53	24-101	23	30

Client: Leader Professional Services, Inc. **Service Request:**R1911944
Project: Tonawanda Bisonite Paint **Date Analyzed:**12/18/19 13:31

Tune Summary
Low Level Semivolatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\5973C\DATA\121819\CA037.D\ **Analytical Method:** 8270D
Instrument ID: R-MS-53 **Analysis Lot:** 664156

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
51	198	10	80	33.22	525487	Pass
68	69	0.00	2	0.00	0	Pass
69	198	0.00	100	36.85	582894	Pass
70	69	0.00	2	0.51	2948	Pass
127	198	10	80	46.29	732103	Pass
197	198	0.00	2	0.00	0	Pass
198	198	100	100	100.00	1581653	Pass
199	198	5	9	6.77	107087	Pass
275	198	10	60	26.86	424858	Pass
365	198	1	100	4.82	76291	Pass
441	442	0.01	24	14.76	347715	Pass
442	442	100	100	100.00	2355664	Pass
443	442	15	24	18.94	446195	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1914839-02	I:\ACQUDATA\5973C\DATA\121819\CA038.D\	12/18/19 13:52	
Method Blank	RQ1914660-01	I:\ACQUDATA\5973C\DATA\121819\CA039.D\	12/18/19 15:15	
Lab Control Sample	RQ1914660-02	I:\ACQUDATA\5973C\DATA\121819\CA040.D\	12/18/19 15:43	
Duplicate Lab Control Sample	RQ1914660-03	I:\ACQUDATA\5973C\DATA\121819\CA041.D\	12/18/19 16:13	
SB3 10-12	R1911944-001	I:\ACQUDATA\5973C\DATA\121819\CA042.D\	12/18/19 16:42	
SB8 1-2	R1911944-004	I:\ACQUDATA\5973C\DATA\121819\CA043.D\	12/18/19 17:11	
SB9 2-4	R1911944-005	I:\ACQUDATA\5973C\DATA\121819\CA044.D\	12/18/19 17:41	

Client: Leader Professional Services, Inc. **Service Request:**R1911944
Project: Tonawanda Bisonite Paint **Date Analyzed:**12/18/19 13:52

Internal Standard Area and RT SUMMARY
Low Level Semivolatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\5973C\DATA\121819\CA038.D\ **Lab Code:**RQ1914839-02
Instrument ID: R-MS-53 **Analysis Lot:**664156
Analysis Method: 8270D **Signal ID:**1

		1,4-Dichlorobenzene-d4		Acenaphthene-d10		Chrysene-d12	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	1,700,859	4.78	3,779,523	7.64	6,434,324	12.39
	Upper Limit ==>	3,401,718	5.28	7,559,046	8.14	12,868,648	12.89
	Lower Limit ==>	850,430	4.28	1,889,762	7.14	3,217,162	11.89
Associated Analyses							
Method Blank	RQ1914660-01	1471817	4.77	3232591	7.64	5519807	12.38
Lab Control Sample	RQ1914660-02	1424276	4.78	3196777	7.64	5834567	12.38
Duplicate Lab Control Sample	RQ1914660-03	1407925	4.78	3077080	7.64	5715221	12.38
SB3 10-12	R1911944-001	1415696	4.78	3254689	7.63	5311883	12.37
SB8 1-2	R1911944-004	1534381	4.78	3440513	7.64	5799971	12.37
SB9 2-4	R1911944-005	1465646	4.78	3348408	7.63	5327471	12.37

Client: Leader Professional Services, Inc. **Service Request:**R1911944
Project: Tonawanda Bisonite Paint **Date Analyzed:**12/18/19 13:52

Internal Standard Area and RT SUMMARY
Low Level Semivolatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\5973C\DATA\121819\CA038.D\ **Lab Code:**RQ1914839-02
Instrument ID: R-MS-53 **Analysis Lot:**664156
Analysis Method: 8270D **Signal ID:**1

		Naphthalene-d8		Perylene-d12		Phenanthrene-d10	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	7,144,574	5.94	6,615,550	15.32	7,395,195	9.11
	Upper Limit ==>	14,289,148	6.44	13,231,100	15.82	14,790,390	9.61
	Lower Limit ==>	3,572,287	5.44	3,307,775	14.82	3,697,598	8.61
Associated Analyses							
Method Blank	RQ1914660-01	5969369	5.93	6290475	15.32	6103693	9.10
Lab Control Sample	RQ1914660-02	5976627	5.93	5969796	15.31	6406807	9.10
Duplicate Lab Control Sample	RQ1914660-03	5809004	5.93	5793254	15.31	6228523	9.10
SB3 10-12	R1911944-001	5888296	5.93	5584424	15.31	6209019	9.10
SB8 1-2	R1911944-004	6256978	5.93	5899971	15.31	6640601	9.10
SB9 2-4	R1911944-005	6026287	5.93	5691135	15.31	6282306	9.10

Client: Leader Professional Services, Inc. **Service Request:** R1911944
Project: Tonawanda Bisonite Paint
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
1,4-Dioxane by GC/MS

Analysis Method: 8270D SIM
Extraction Method: EPA 3535A

Sample Name	Lab Code	1,4-Dioxane-d8 64-124
Field Blank S	R1911944-003	97
Method Blank	RQ1914355-01	89
Lab Control Sample	RQ1914355-02	88
Duplicate Lab Control Sample	RQ1914355-03	93

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911944
Project:	Tonawanda Bisonite Paint	**Date Analyzed:**	12/11/19 14:48
Sample Matrix:	Water	**Date Extracted:**	12/10/19

Method Blank Summary
1,4-Dioxane by GC/MS

Sample Name:	Method Blank	**Instrument ID:**	R-MS-56
Lab Code:	RQ1914355-01	**File ID:**	I:\ACQUDATA\5975E\data\121119\AU892.D\
Analysis Method:	8270D SIM	**Analysis Lot:**	663213
Prep Method:	EPA 3535A	**Extraction Lot:**	350159

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1914355-02	I:\ACQUDATA\5975E\data\121119\AU893.D\	12/11/19 15:07
Duplicate Lab Control Sample	RQ1914355-03	I:\ACQUDATA\5975E\data\121119\AU894.D\	12/11/19 15:25
Field Blank S	R1911944-003	I:\ACQUDATA\5975E\data\121119\AU904.D\	12/11/19 18:25

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911944
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1914355-01	**Basis:**	NA

1,4-Dioxane by GC/MS

Analysis Method: 8270D SIM
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	0.040 U	0.040	0.027	1	12/11/19 14:48	12/10/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,4-Dioxane-d8	89	64 - 124	12/11/19 14:48	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911944
Project:	Tonawanda Bisonite Paint	**Date Analyzed:**	12/11/19 15:07
Sample Matrix:	Water	**Date Extracted:**	12/10/19

Lab Control Sample Summary
1,4-Dioxane by GC/MS

Sample Name:	Lab Control Sample	**Instrument ID:**	R-MS-56
Lab Code:	RQ1914355-02	**File ID:**	I:\ACQUDATA\5975E\data\121119\AU893.D\
Analysis Method:	8270D SIM	**Analysis Lot:**	663213
Prep Method:	EPA 3535A	**Extraction Lot:**	350159

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ1914355-01	I:\ACQUDATA\5975E\data\121119\AU892.D\	12/11/19 14:48
Duplicate Lab Control Sample	RQ1914355-03	I:\ACQUDATA\5975E\data\121119\AU894.D\	12/11/19 15:25
Field Blank S	R1911944-003	I:\ACQUDATA\5975E\data\121119\AU904.D\	12/11/19 18:25

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Water

Service Request: R1911944
Date Analyzed: 12/11/19

Duplicate Lab Control Sample Summary
1,4-Dioxane by GC/MS

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ1914355-02			RQ1914355-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,4-Dioxane	8270D SIM	7.91	10.0	79	8.42	10.0	84	58-124	6	30

Client: Leader Professional Services, Inc. **Service Request:**R1911944
Project: Tonawanda Bisonite Paint **Date Analyzed:**12/11/19 09:20

Tune Summary
1,4-Dioxane by GC/MS

File ID: I:\ACQUDATA\5975E\data\121119\AU876.D\ **Analytical Method:** 8270D SIM
Instrument ID: R-MS-56 **Analysis Lot:** 663213

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
51	198	10	80	50.55	246741	Pass
68	69	0.00	2	1.68	4724	Pass
69	198	0.00	100	57.70	281644	Pass
70	69	0.00	2	0.47	1312	Pass
127	198	10	80	60.53	295445	Pass
197	198	0.00	2	0.00	0	Pass
198	198	100	100	100.00	488107	Pass
199	198	5	9	7.01	34205	Pass
275	198	10	60	23.54	114920	Pass
365	198	1	100	3.54	17285	Pass
441	442	0.01	24	16.91	66976	Pass
442	442	100	100	100.00	395989	Pass
443	442	15	24	19.38	76725	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1914539-02	I:\ACQUDATA\5975E\data\121119\AU889.D\	12/11/19 13:54	
Method Blank	RQ1914355-01	I:\ACQUDATA\5975E\data\121119\AU892.D\	12/11/19 14:48	
Lab Control Sample	RQ1914355-02	I:\ACQUDATA\5975E\data\121119\AU893.D\	12/11/19 15:07	
Duplicate Lab Control Sample	RQ1914355-03	I:\ACQUDATA\5975E\data\121119\AU894.D\	12/11/19 15:25	
Continuing Calibration Verification	RQ1914539-03	I:\ACQUDATA\5975E\data\121119\AU901.D\	12/11/19 17:31	
Field Blank S	R1911944-003	I:\ACQUDATA\5975E\data\121119\AU904.D\	12/11/19 18:25	

Client: Leader Professional Services, Inc. **Service Request:** R1911944
Project: Tonawanda Bisonite Paint **Date Analyzed:** 12/11/19 13:54

Internal Standard Area and RT SUMMARY
1,4-Dioxane by GC/MS

File ID: I:\ACQUDATA\5975E\data\121119\AU889.D\ **Lab Code:** RQ1914539-02
Instrument ID: R-MS-56 **Analysis Lot:** 663213
Analysis Method: 8270D SIM **Signal ID:** 1

	Tetrahydrofuran-d8	
	Area	**RT**
Result ==>	32,598	2.32
Upper Limit ==>	65,196	2.82
Lower Limit ==>	16,299	1.82

Associated Analyses

Continuing Calibration Verification	RQ1914539-02	32598	2.32
Method Blank	RQ1914355-01	34354	2.32
Lab Control Sample	RQ1914355-02	33671	2.34
Duplicate Lab Control Sample	RQ1914355-03	34399	2.33

Client: Leader Professional Services, Inc. **Service Request:** R1911944
Project: Tonawanda Bisonite Paint **Date Analyzed:** 12/11/19 17:31

Internal Standard Area and RT SUMMARY
1,4-Dioxane by GC/MS

File ID: I:\ACQUDATA\5975E\data\121119\AU901.D\ **Lab Code:** RQ1914539-03
Instrument ID: R-MS-56 **Analysis Lot:** 663213
Analysis Method: 8270D SIM **Signal ID:** 1

		Tetrahydrofuran-d8	
		Area	**RT**
	Result ==>	30,901	2.33
	Upper Limit ==>	61,802	2.83
	Lower Limit ==>	15,451	1.83
Associated Analyses			
Field Blank S	R1911944-003	34187	2.36

General Chemistry

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911944
Project	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19
		Date Analyzed:	12/11/19

Replicate Sample Summary

General Chemistry Parameters

Sample Name:	SB9 2-4	**Units:**	Percent
Lab Code:	R1911944-005	**Basis:**	As Received

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Sample R1911944-005DUP Result	Average	RPD	RPD Limit
Total Solids	ALS SOP	-	-	89.5	90.1	89.8	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Raw Data

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
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Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911944
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:50
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB3 10-12	**Units:**	ug/Kg
Lab Code:	R1911944-001	**Basis:**	Dry

Low Level Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	77 U	77	12	1	12/18/19 16:42	12/17/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	68	10 - 115	12/18/19 16:42	
Nitrobenzene-d5	85	10 - 130	12/18/19 16:42	
p-Terphenyl-d14	80	10 - 130	12/18/19 16:42	

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911944
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 09:15
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB8 1-2	**Units:**	ug/Kg
Lab Code:	R1911944-004	**Basis:**	Dry

Low Level Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	77 U	77	12	1	12/18/19 17:11	12/17/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	64	10 - 115	12/18/19 17:11	
Nitrobenzene-d5	73	10 - 130	12/18/19 17:11	
p-Terphenyl-d14	68	10 - 130	12/18/19 17:11	

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911944
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 11:40
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB9 2-4	**Units:**	ug/Kg
Lab Code:	R1911944-005	**Basis:**	Dry

Low Level Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	76 U	76	12	1	12/18/19 17:41	12/17/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	79	10 - 115	12/18/19 17:41	
Nitrobenzene-d5	92	10 - 130	12/18/19 17:41	
p-Terphenyl-d14	89	10 - 130	12/18/19 17:41	

January 08, 2020 Service Request No:R1911945

Mr. Peter von Schondorf
Leader Professional Services, Inc.
271 Marsh Road
Suite 2
Pittsford, NY 14534

Laboratory Results for: Tonawanda Bisonite Paint

Dear Mr.von Schondorf,

Enclosed are the results of the sample(s) submitted to our laboratory December 05, 2019
For your reference, these analyses have been assigned our service request number **R1911945.**

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Brady Kalkman
For
Janice Jaeger
Project Manager

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ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

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1565 Jefferson Rd, Building 300, Rochester, NY 14623 | 585-288-5380 | www.alsglobal.com

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil, Water

Service Request: R1911945
Date Received: 12/05/2019

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

Fourteen soil, water samples were received for analysis at ALS Environmental on 12/05/2019. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Semivolatiles by GC/MS:

Method 8270D, 12/17/2019: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8270D, 12/17/2019: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8270D, 12/18/2019: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8270D, 12/18/2019: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8270D, 12/23/2019: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8270D, 12/23/2019: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8270D, 12/26/2019: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8270D, 12/26/2019: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Semivoa GC:

Approved by  Date 01/08/2020

ALS Environmental

Method 8081B, 12/28/2019: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8081B, 12/28/2019: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Endrin Aldehyde has been reported as zero percent recovery in the MS/MSD due to a limitation in LIMs. Endrin Aldehyde was detected at 10% and 12% recovery, respectively, within laboratory limits. The MS/MSD is acceptable and should not be flagged on the summary form.
Method 8081B, 12/31/2019: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
Method 8081B, 12/31/2019: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

There are hits for DDE and DDT sample were run several times with same result, with DDT occuring in breakdown and DDE going out high

Method 8081B, 665422: The confirmation comparison limit of 40% difference was exceeded for the following analytes in one or more samples. Analytes noted on Form 1 with P Flag. The lower of the two values is reported and is flagged.

Method 8081B, 01/02/2020: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8081B, 01/02/2020: The control limits for matrix spike recovery of one or more of the spiked analytes is not applicable and have been flagged with a "#". The PCB concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery. No further corrective action was required.

Method 8082A, 12/17/2019: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
Method 8082A, 12/18/2019: The control limit was exceeded for one or more surrogates in the Continuing Calibration Verification (CCV). The surrogates were within acceptance limits for the associated field samples. The data quality was not significantly affected and no further corrective action was taken.
Method 8082A, 12/28/2019: The matrix spike recovery of one or more of the spiked analytes was outside of control limits because of sample heterogeneity. The sample contained a background concentration of the analyte such that sample heterogeneity significantly affected the spike recovery calculation. No further corrective action was required.

Method 8082A, R1911945-001, -002: The control limits for one or more surrogates in the sample are not applicable. The analysis of the sample required a dilution, which resulted in a surrogate concentration below the Method Reporting Limit (MRL). No further corrective action was appropriate.

Method 8151A, 12/18/2019: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method

Approved by _____ Date 01/08/2020

Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Metals:

Method 6010C, R1911945-009: The Relative Percent Difference (RPD) for the serial dilution test of one or more analytes was above the method control limits which indicates the presence of physical or chemical interference for analysis of these analytes in this sample matrix. Exceedances have been flagged.

General Chemistry:

No significant anomalies were noted with this analysis.

Volatiles by GC/MS:

Method 8260C, 12/17/2019: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.
Method 8260C, 12/12/2019: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 12/12/2019: The Method Blank contained a low level of the following analytes above the Reporting Limit: Acetone. All associated sample results less than ten times the level found in the Method Blank are flagged. The samples were not reprepared/reanalyzed because the contamination is in the vial preservative.

Approved by _____ Date 01/08/2020

SAMPLE DETECTION SUMMARY

CLIENT ID: SB2 1-2			Lab ID: R1911945-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Cyanide, Total	1.18		0.05	0.27	mg/Kg	9012B
Total Solids	88.3				Percent	ALS SOP
Benzene	160	J	17	410	ug/Kg	8260C
Ethylbenzene	240	J	17	410	ug/Kg	8260C
Isopropylbenzene (Cumene)	51	J	17	410	ug/Kg	8260C
Methyl Acetate	350	J	69	410	ug/Kg	8260C
Methylcyclohexane	78	J	26	410	ug/Kg	8260C
Toluene	510		17	410	ug/Kg	8260C
m,p-Xylenes	2400		31	820	ug/Kg	8260C
o-Xylene	130	J	17	410	ug/Kg	8260C
Benzo(b)fluoranthene	140	J	130	380	ug/Kg	8270D
Bis(2-ethylhexyl) Phthalate	1100		110	580	ug/Kg	8270D
Dieldrin	13		4.9	9.8	ug/Kg	8081B
Aroclor 1248	2600		1500	1900	ug/Kg	8082A
Aroclor 1254	1800	J	1100	1900	ug/Kg	8082A
Heptachlor	9.5	J	4.9	9.8	ug/Kg	8081B
beta-BHC	13		4.9	9.8	ug/Kg	8081B

CLIENT ID: SB2 4-6			Lab ID: R1911945-002			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	87.2				Percent	ALS SOP
1,2-Dichlorobenzene	15000	J	4600	110000	ug/Kg	8260C
4-Methyl-2-pentanone	16000	J	5200	110000	ug/Kg	8260C
Benzene	15000	J	4600	110000	ug/Kg	8260C
Chlorobenzene	12000	J	4600	110000	ug/Kg	8260C
Ethylbenzene	790000		4600	110000	ug/Kg	8260C
Isopropylbenzene (Cumene)	61000	J	4600	110000	ug/Kg	8260C
Toluene	12000000	E	4600	110000	ug/Kg	8260C
m,p-Xylenes	3300000		8400	230000	ug/Kg	8260C
o-Xylene	1200000		4600	110000	ug/Kg	8260C
Ethylbenzene	840000	D	23000	560000	ug/Kg	8260C
Isopropylbenzene (Cumene)	66000	DJ	23000	560000	ug/Kg	8260C
Toluene	13000000	D	23000	560000	ug/Kg	8260C
m,p-Xylenes	3600000	D	42000	1100000	ug/Kg	8260C
o-Xylene	1300000	D	23000	560000	ug/Kg	8260C
2-Methylnaphthalene	790	J	410	1800	ug/Kg	8270D
2-Methylphenol	970	J	400	1800	ug/Kg	8270D
3- and 4-Methylphenol Coelution	770	J	360	1800	ug/Kg	8270D
Bis(2-ethylhexyl) Phthalate	53000	D	1500	8400	ug/Kg	8270D
Di-n-butyl Phthalate	2000		560	1800	ug/Kg	8270D
Naphthalene	4600		480	1800	ug/Kg	8270D
Phenanthrene	610	J	540	1800	ug/Kg	8270D

SAMPLE DETECTION SUMMARY

CLIENT ID: SB2 4-6			Lab ID: R1911945-002			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Phenol	470	J	440	1800	ug/Kg	8270D
4,4'-DDT	19		4.9	9.8	ug/Kg	8081B
Dieldrin	5.8	J	4.9	9.8	ug/Kg	8081B
Endrin	13		4.9	9.8	ug/Kg	8081B
Endrin Aldehyde	46		4.9	9.8	ug/Kg	8081B
Aroclor 1248	3100		1500	1900	ug/Kg	8082A
Aroclor 1254	1300	J	1100	1900	ug/Kg	8082A
Heptachlor	20		4.9	9.8	ug/Kg	8081B

CLIENT ID: SB2 15-17			Lab ID: R1911945-003			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Cyanide, Total	0.11	J	0.05	0.25	mg/Kg	9012B
Total Solids	79.8				Percent	ALS SOP
1,2-Dichlorobenzene	1300	J	290	7100	ug/Kg	8260C
4-Methyl-2-pentanone	910	J	330	7100	ug/Kg	8260C
Benzene	700	J	290	7100	ug/Kg	8260C
Chlorobenzene	690	J	290	7100	ug/Kg	8260C
Ethylbenzene	40000		290	7100	ug/Kg	8260C
Isopropylbenzene (Cumene)	3400	J	290	7100	ug/Kg	8260C
Toluene	570000	E	290	7100	ug/Kg	8260C
m,p-Xylenes	170000		530	14000	ug/Kg	8260C
o-Xylene	61000		290	7100	ug/Kg	8260C
Ethylbenzene	39000	D	1500	35000	ug/Kg	8260C
Isopropylbenzene (Cumene)	3400	DJ	1500	35000	ug/Kg	8260C
Toluene	550000	D	1500	35000	ug/Kg	8260C
m,p-Xylenes	170000	D	2700	71000	ug/Kg	8260C
o-Xylene	59000	D	1500	35000	ug/Kg	8260C
2-Methylnaphthalene	140	J	94	430	ug/Kg	8270D
3- and 4-Methylphenol Coelution	260	J	82	430	ug/Kg	8270D
Bis(2-ethylhexyl) Phthalate	9200	D	580	3200	ug/Kg	8270D
Di-n-butyl Phthalate	400	J	130	430	ug/Kg	8270D
Fluoranthene	250	J	160	430	ug/Kg	8270D
Naphthalene	630		120	430	ug/Kg	8270D
Phenanthrene	390	J	130	430	ug/Kg	8270D
Pyrene	180	J	170	430	ug/Kg	8270D
4,4'-DDE	10	J	5.5	11	ug/Kg	8081B
Aroclor 1248	590		170	210	ug/Kg	8082A
Aroclor 1254	380		120	210	ug/Kg	8082A

CLIENT ID: SB3 1-2			Lab ID: R1911945-004			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Cyanide, Total	1.11		0.05	0.21	mg/Kg	9012B

SAMPLE DETECTION SUMMARY

CLIENT ID: SB3 1-2			Lab ID: R1911945-004			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	95.0				Percent	ALS SOP
1,2-Dichlorobenzene	0.35	J	0.22	5.4	ug/Kg	8260C
2-Butanone (MEK)	8.2		2.2	5.4	ug/Kg	8260C
Acetone	14		5.1	5.4	ug/Kg	8260C
Benzene	14		0.22	5.4	ug/Kg	8260C
Carbon Disulfide	0.50	J	0.32	5.4	ug/Kg	8260C
Chlorobenzene	0.29	J	0.22	5.4	ug/Kg	8260C
Cyclohexane	28		0.29	5.4	ug/Kg	8260C
Ethylbenzene	20		0.22	5.4	ug/Kg	8260C
Isopropylbenzene (Cumene)	1.4	J	0.22	5.4	ug/Kg	8260C
Methyl Acetate	5.2	J	0.92	5.4	ug/Kg	8260C
Methylcyclohexane	53		0.34	5.4	ug/Kg	8260C
Toluene	250	E	0.22	5.4	ug/Kg	8260C
m,p-Xylenes	110		0.41	11	ug/Kg	8260C
o-Xylene	34		0.22	5.4	ug/Kg	8260C
Benzene	56	DJ	18	440	ug/Kg	8260C
Cyclohexane	140	DJ	24	440	ug/Kg	8260C
Ethylbenzene	45	DJ	18	440	ug/Kg	8260C
Isopropylbenzene (Cumene)	25	DJ	18	440	ug/Kg	8260C
Methyl Acetate	330	DJ	75	440	ug/Kg	8260C
Methylcyclohexane	400	DJ	28	440	ug/Kg	8260C
Toluene	90	DJ	18	440	ug/Kg	8260C
m,p-Xylenes	200	DJ	33	890	ug/Kg	8260C
o-Xylene	24	DJ	18	440	ug/Kg	8260C
Anthracene	140	J	98	350	ug/Kg	8270D
Benz(a)anthracene	290	J	110	350	ug/Kg	8270D
Benzo(a)pyrene	310	J	130	350	ug/Kg	8270D
Benzo(b)fluoranthene	470		120	350	ug/Kg	8270D
Benzo(g,h,i)perylene	250	J	93	350	ug/Kg	8270D
Benzo(k)fluoranthene	160	J	130	350	ug/Kg	8270D
Bis(2-ethylhexyl) Phthalate	2000		94	530	ug/Kg	8270D
Chrysene	360		130	350	ug/Kg	8270D
Fluoranthene	660		130	350	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	260	J	120	350	ug/Kg	8270D
Phenanthrene	520		110	350	ug/Kg	8270D
Pyrene	590		140	350	ug/Kg	8270D
Aroclor 1248	12000		1400	1700	ug/Kg	8082A
Aroclor 1254	11000		940	1700	ug/Kg	8082A
Aroclor 1260	1900		890	1700	ug/Kg	8082A
Heptachlor	47		4.4	8.8	ug/Kg	8081B

SAMPLE DETECTION SUMMARY

CLIENT ID: SB3 4-6			Lab ID: R1911945-005			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Cyanide, Total	0.38		0.05	0.24	mg/Kg	9012B
Total Solids	86.6				Percent	ALS SOP
Ethylbenzene	82000		410	10000	ug/Kg	8260C
Isopropylbenzene (Cumene)	5900	J	410	10000	ug/Kg	8260C
Methylcyclohexane	910	J	640	10000	ug/Kg	8260C
Toluene	89000		410	10000	ug/Kg	8260C
m,p-Xylenes	380000		760	20000	ug/Kg	8260C
o-Xylene	41000		410	10000	ug/Kg	8260C
2-Methylnaphthalene	16000	D	850	3900	ug/Kg	8270D
3- and 4-Methylphenol Coelution	110	J	74	390	ug/Kg	8270D
Acenaphthene	6900	D	870	3900	ug/Kg	8270D
Acenaphthylene	110	J	110	390	ug/Kg	8270D
Anthracene	6000	D	1100	3900	ug/Kg	8270D
Benz(a)anthracene	5100	D	1200	3900	ug/Kg	8270D
Benzo(a)pyrene	3800	DJ	1500	3900	ug/Kg	8270D
Benzo(b)fluoranthene	4400	D	1300	3900	ug/Kg	8270D
Benzo(g,h,i)perylene	1900		110	390	ug/Kg	8270D
Benzo(k)fluoranthene	1900		150	390	ug/Kg	8270D
Biphenyl	2200		95	390	ug/Kg	8270D
Bis(2-ethylhexyl) Phthalate	5300	DJ	1100	5900	ug/Kg	8270D
Carbazole	2200		120	390	ug/Kg	8270D
Chrysene	4300	D	1500	3900	ug/Kg	8270D
Dibenz(a,h)anthracene	640		120	390	ug/Kg	8270D
Dibenzofuran	7200	D	770	3900	ug/Kg	8270D
Fluoranthene	14000	D	1500	3900	ug/Kg	8270D
Fluorene	7200	D	900	3900	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	2300		130	390	ug/Kg	8270D
Naphthalene	5300	D	1000	3900	ug/Kg	8270D
Phenanthrene	22000	D	1200	3900	ug/Kg	8270D
Pyrene	12000	D	1600	3900	ug/Kg	8270D
2,4,5-TP	7.2	J	4.0	12	ug/Kg	8151A
4,4'-DDE	140		4.9	9.8	ug/Kg	8081B
Dieldrin	24		4.9	9.8	ug/Kg	8081B
Endrin	11		4.9	9.8	ug/Kg	8081B
Aroclor 1248	8000		740	950	ug/Kg	8082A
Aroclor 1254	3400		520	950	ug/Kg	8082A
Aroclor 1260	810	J	490	950	ug/Kg	8082A
Heptachlor	27		4.9	9.8	ug/Kg	8081B
beta-BHC	30	P	4.9	9.8	ug/Kg	8081B

SAMPLE DETECTION SUMMARY

CLIENT ID: SB3 10-12			Lab ID: R1911945-006			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	88.6				Percent	ALS SOP
4-Methyl-2-pentanone	0.47	J	0.18	3.7	ug/Kg	8260C
Acetone	14		3.6	3.7	ug/Kg	8260C
Benzene	0.15	J	0.15	3.7	ug/Kg	8260C
Ethylbenzene	3.7		0.15	3.7	ug/Kg	8260C
Isopropylbenzene (Cumene)	0.31	J	0.15	3.7	ug/Kg	8260C
Methyl Acetate	11		0.63	3.7	ug/Kg	8260C
Methylcyclohexane	0.27	J	0.24	3.7	ug/Kg	8260C
Toluene	7.8		0.15	3.7	ug/Kg	8260C
m,p-Xylenes	14		0.28	7.4	ug/Kg	8260C
o-Xylene	3.4	J	0.15	3.7	ug/Kg	8260C
Bis(2-ethylhexyl) Phthalate	170	J	110	580	ug/Kg	8270D

CLIENT ID: Trip Blank 2			Lab ID: R1911945-008			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Acetone	2.2	BJ	2.1	5.0	ug/L	8260C

CLIENT ID: SB4 1-2			Lab ID: R1911945-009			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	87.4				Percent	ALS SOP
2-Butanone (MEK)	13		1.6	3.8	ug/Kg	8260C
Acetone	330	E	3.7	3.8	ug/Kg	8260C
Benzene	0.29	J	0.16	3.8	ug/Kg	8260C
Carbon Disulfide	0.52	J	0.23	3.8	ug/Kg	8260C
Cyclohexane	0.86	J	0.20	3.8	ug/Kg	8260C
Ethylbenzene	0.30	J	0.16	3.8	ug/Kg	8260C
Isopropylbenzene (Cumene)	0.31	J	0.16	3.8	ug/Kg	8260C
Methyl Acetate	52		0.65	3.8	ug/Kg	8260C
Methyl tert-Butyl Ether	0.77	J	0.16	3.8	ug/Kg	8260C
Methylcyclohexane	1.4	J	0.24	3.8	ug/Kg	8260C
Toluene	0.48	J	0.16	3.8	ug/Kg	8260C
cis-1,2-Dichloroethene	0.26	J	0.16	3.8	ug/Kg	8260C
m,p-Xylenes	1.6	J	0.29	7.7	ug/Kg	8260C
o-Xylene	0.80	J	0.16	3.8	ug/Kg	8260C
Acetone	680	D	470	500	ug/Kg	8260C
Methyl Acetate	470	DJ	84	500	ug/Kg	8260C
Methylcyclohexane	48	DJ	31	500	ug/Kg	8260C
Toluene	49	DJ	20	500	ug/Kg	8260C
m,p-Xylenes	100	DJ	37	1000	ug/Kg	8260C
o-Xylene	38	DJ	20	500	ug/Kg	8260C
Aroclor 1248	490		150	190	ug/Kg	8082A
Aroclor 1254	280		110	190	ug/Kg	8082A

SAMPLE DETECTION SUMMARY

CLIENT ID: SB4 1-2 Dup			Lab ID: R1911945-010			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	88.4				Percent	ALS SOP
2-Butanone (MEK)	11		1.7	4.2	ug/Kg	8260C
Acetone	71		4.0	4.2	ug/Kg	8260C
Carbon Disulfide	0.53	J	0.25	4.2	ug/Kg	8260C
Cyclohexane	0.81	J	0.23	4.2	ug/Kg	8260C
Ethylbenzene	0.27	J	0.17	4.2	ug/Kg	8260C
Methyl Acetate	15		0.72	4.2	ug/Kg	8260C
Methylcyclohexane	2.7	J	0.27	4.2	ug/Kg	8260C
Toluene	0.66	J	0.17	4.2	ug/Kg	8260C
Vinyl Chloride	3.3	J	0.40	4.2	ug/Kg	8260C
cis-1,2-Dichloroethene	2.2	J	0.17	4.2	ug/Kg	8260C
m,p-Xylenes	1.0	J	0.32	8.5	ug/Kg	8260C

CLIENT ID: SB4 16-18			Lab ID: R1911945-011			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Cyanide, Total	0.40		0.05	0.28	mg/Kg	9012B
Total Solids	86.0				Percent	ALS SOP
Acetone	15		3.3	3.4	ug/Kg	8260C
Carbon Disulfide	0.53	J	0.20	3.4	ug/Kg	8260C
Methyl Acetate	8.4		0.58	3.4	ug/Kg	8260C
Toluene	0.30	J	0.14	3.4	ug/Kg	8260C
Vinyl Chloride	91		0.32	3.4	ug/Kg	8260C
cis-1,2-Dichloroethene	50		0.14	3.4	ug/Kg	8260C
Aroclor 1248	38	J	31	40	ug/Kg	8082A

CLIENT ID: SB5 3-5			Lab ID: R1911945-012			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	84.6				Percent	ALS SOP
2-Butanone (MEK)	12		1.7	4.1	ug/Kg	8260C
Acetone	85		3.9	4.1	ug/Kg	8260C
Benzene	0.64	J	0.17	4.1	ug/Kg	8260C
Carbon Disulfide	0.77	J	0.24	4.1	ug/Kg	8260C
Cyclohexane	1.0	J	0.22	4.1	ug/Kg	8260C
Methyl Acetate	14		0.70	4.1	ug/Kg	8260C
Methylcyclohexane	1.5	J	0.26	4.1	ug/Kg	8260C
Toluene	0.41	J	0.17	4.1	ug/Kg	8260C
cis-1,2-Dichloroethene	0.20	J	0.17	4.1	ug/Kg	8260C
m,p-Xylenes	1.6	J	0.31	8.3	ug/Kg	8260C
o-Xylene	0.62	J	0.17	4.1	ug/Kg	8260C
Benzo(b)fluoranthene	160	J	130	380	ug/Kg	8270D
Bis(2-ethylhexyl) Phthalate	140	J	110	580	ug/Kg	8270D
Fluoranthene	170	J	140	380	ug/Kg	8270D

SAMPLE DETECTION SUMMARY

CLIENT ID: SB5 3-5			Lab ID: R1911945-012			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Pyrene	190	J	150	380	ug/Kg	8270D
Aroclor 1248	160		30	38	ug/Kg	8082A
Aroclor 1254	100		21	38	ug/Kg	8082A
Aroclor 1260	24	J	20	38	ug/Kg	8082A
Methoxychlor	6.0	J	4.9	9.8	ug/Kg	8081B

CLIENT ID: SB5 7-8			Lab ID: R1911945-013			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	84.6				Percent	ALS SOP
1,2-Dichlorobenzene	5.1		0.16	3.8	ug/Kg	8260C
1,4-Dichlorobenzene	0.39	J	0.17	3.8	ug/Kg	8260C
2-Butanone (MEK)	6.1		1.6	3.8	ug/Kg	8260C
Acetone	230	E	3.6	3.8	ug/Kg	8260C
Benzene	5.4		0.16	3.8	ug/Kg	8260C
Carbon Disulfide	0.41	J	0.22	3.8	ug/Kg	8260C
Chlorobenzene	4.4		0.16	3.8	ug/Kg	8260C
Cyclohexane	0.75	J	0.20	3.8	ug/Kg	8260C
Ethylbenzene	1.6	J	0.16	3.8	ug/Kg	8260C
Isopropylbenzene (Cumene)	6.6		0.16	3.8	ug/Kg	8260C
Methyl Acetate	110		0.64	3.8	ug/Kg	8260C
Methyl tert-Butyl Ether	0.48	J	0.16	3.8	ug/Kg	8260C
Methylcyclohexane	1.9	J	0.24	3.8	ug/Kg	8260C
Toluene	0.50	J	0.16	3.8	ug/Kg	8260C
m,p-Xylenes	73		0.28	7.6	ug/Kg	8260C
o-Xylene	0.55	J	0.16	3.8	ug/Kg	8260C
1,2-Dichlorobenzene	15	J	15	350	ug/Kg	8260C
Acetone	620	D	340	350	ug/Kg	8260C
Ethylbenzene	23	DJ	15	350	ug/Kg	8260C
Methyl Acetate	370	D	60	350	ug/Kg	8260C
m,p-Xylenes	310	DJ	27	700	ug/Kg	8260C
2-Methylnaphthalene	160	J	87	390	ug/Kg	8270D
Bis(2-ethylhexyl) Phthalate	6000	D	220	1200	ug/Kg	8270D
Fluoranthene	180	J	150	390	ug/Kg	8270D
Naphthalene	540		110	390	ug/Kg	8270D
Phenanthrene	250	J	120	390	ug/Kg	8270D
4,4'-DDE	20		5.1	10	ug/Kg	8081B
Endrin Aldehyde	15		5.1	10	ug/Kg	8081B
Aroclor 1248	1100		160	200	ug/Kg	8082A
Aroclor 1254	580		110	200	ug/Kg	8082A
Aroclor 1260	140	J	110	200	ug/Kg	8082A
Heptachlor	7.5	J	5.1	10	ug/Kg	8081B

SAMPLE DETECTION SUMMARY

CLIENT ID: SB5 12-14	Lab ID: R1911945-014					
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	89.7				Percent	ALS SOP
Acetone	15		3.5	3.7	ug/Kg	8260C
Ethylbenzene	0.59	J	0.15	3.7	ug/Kg	8260C
Methyl Acetate	11		0.62	3.7	ug/Kg	8260C
Toluene	0.67	J	0.15	3.7	ug/Kg	8260C
m,p-Xylenes	3.5	J	0.28	7.4	ug/Kg	8260C
o-Xylene	0.18	J	0.15	3.7	ug/Kg	8260C
Bis(2-ethylhexyl) Phthalate	190	J	110	590	ug/Kg	8270D
Di-n-butyl Phthalate	130	J	120	390	ug/Kg	8270D
Aroclor 1248	36	J	30	38	ug/Kg	8082A
Aroclor 1254	28	J	21	38	ug/Kg	8082A

Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Leader Professional Services, Inc. **Service Request:**R1911945
Project: Tonawanda Bisonite Paint

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R1911945-001	SB2 1-2	12/4/2019	1040
R1911945-002	SB2 4-6	12/4/2019	1050
R1911945-003	SB2 15-17	12/4/2019	1100
R1911945-004	SB3 1-2	12/4/2019	1120
R1911945-005	SB3 4-6	12/4/2019	1100
R1911945-006	SB3 10-12	12/4/2019	1150
R1911945-007	Trip Blank 1	12/4/2019	
R1911945-008	Trip Blank 2	12/4/2019	
R1911945-009	SB4 1-2	12/4/2019	1410
R1911945-010	SB4 1-2 Dup	12/4/2019	1410
R1911945-011	SB4 16-18	12/4/2019	1410
R1911945-012	SB5 3-5	12/4/2019	1435
R1911945-013	SB5 7-8	12/4/2019	1442
R1911945-014	SB5 12-14	12/4/2019	1452

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

SR# _____

ALS Environmental

1565 Jefferson Road, Bldg 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 / FAX (585) 288-8475
www.alsglobal.com

001, 003

T058814

Project Name: Tonawanda Bisonite Paint	
Project Number:	Report To: Peter von Schondorf
Company / Address: Leader Professional Services, Inc. 271 Marsh Road Suite 2 Pittsford NY, 14534	
Phone # 585-248-2413	FAX #
Sampler Signature	Sampler Printed Name: Rob Murphy

CLIENT SAMPLE ID	SAMPLING Date	Time	Matrix (Circle One)	NUMBER OF CONTAINERS	7D: 8081B / Pest OC	8082A / PCB	8151A / HERB	8270D / SVO	8270D SIM / 1,4-Dioxane	PFC/537M / PFAS	14D: 8260C / VOC FP	9012B / CN Tot	28D: 7470A / Hg T	180D: 6010C / TAL Metals	Remarks
SB2 1-2	12/4/19	10:45	Soil / Water	7	✓	✓	✓	✓			✓	✓	✓	✓	* High VOC
SB2 4-6	12/4/19	10:50	Soil / Water	7	✓	✓	✓	✓			✓	✓	✓	✓	
SB2 15-17	12/4/19	11:30	Soil / Water	7	✓	✓	✓	✓			✓	✓	✓	✓	
SB3 1-2	12/4/19	11:20	Soil / Water	7	✓	✓	✓	✓			✓	✓	✓	✓	
SB3 4-6	12/4/19	11:25	Soil / Water	7	✓	✓	✓	✓			✓	✓	✓	✓	* High VOC
SB3 16-17	12/4/19	11:40	Soil / Water	10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Trip Blank	12/3/19	07:10	Soil / Water	3							✓				
Trip Blank	12/3/19	07:10	Soil / Water	3							✓				
			Soil / Water												
			Soil / Water												

Special Instructions/Comments:

TAL Metals:
Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, Sb, Se, Tl, V, Zn

Login PFAS / 1,4-Dioxane on Separate SDG

Turnaround Requirements

___ RUSH (SURCHARGES APPLY)

✓ Standard

_____ REQUESTED FAX DATE

_____ Requested Report Date

Report Requirements

___ I. Results Only
___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Cilibration Summaries
x IV. Data Validation Report with Raw Data

EData x Yes ____ No
NYSDEC Equis v.4

Invoice Information

P.O.# 235198A

Bill To: _____

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: Rob Murphy	Printed Name: Daniel W.C	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Leader	Firm: ALS	Firm	Firm	Firm	Firm
Date/Time: 12/5/19 1705	Date/Time: 12/5/19 / 1705	Date/Time	Date/Time	Date/Time	

R1911945 5
Leader Professional Services, Inc.
Tonawanda Bisonite Paint

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

SR# T058814

ALS Environmental

1565 Jefferson Road, Bldg 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 / FAX (585) 288-8475
www.alsglobal.com

001, 003

Project Name: Tonawanda Bisonite Paint	
Project Number:	Report To: Peter von Schondorf
Company / Address: Leader Professional Services, Inc. 271 Marsh Road Suite 2 Pittsford NY, 14534	
Phone # 585-248-2413	FAX #
Sampler Signature	Sampler Printed Name: Rob Murphy

CLIENT SAMPLE ID	SAMPLING Date	Time	Matrix (Circle One)	NUMBER OF CONTAINERS	8081B / Pest OC (7D)	8082A / PCB (7D)	8151A / HERB (7D)	8270D / SVO (7D)	8270D SIM / 1,4-Dioxane (7D)	PFC/537M / PFAS (7D)	8260C / VOC FP (14D)	9012B / CN Tot (28D)	7470A / Hg T (28D)	6010C / TAL Metals (180D)	Remarks
SB4 1-2	12/4/2019	14:10	Soil / Water	1	✓	✓	✓	✓			✓	✓	✓	✓	
SB4 1-2 Spike	12/4/2019	14:10	Soil / Water	1	✓	✓	✓	✓			✓	✓	✓	✓	
SB4 Dup 1-2	12/4/2019	14:10	Soil / Water	1	✓	✓	✓	✓			✓	✓	✓	✓	
SB4 Dup Spike 1-2	12/4/2019	14:10	Soil / Water	1	✓	✓	✓	✓			✓	✓	✓	✓	
SB4 6-8	12/4/2019	14:10	Soil / Water	1	✓	✓	✓	✓			✓	✓	✓	✓	
SB5 3-5	12/4/2019	14:36	Soil / Water	1	✓	✓	✓	✓			✓	✓	✓	✓	
SB5 7-8	12/4/2019	14:47	Soil / Water	1	✓	✓	✓	✓			✓	✓	✓	✓	
SB5 12-14	12/4/2019	14:52	Soil / Water	1	✓	✓	✓	✓			✓	✓	✓	✓	
			Soil / Water												
			Soil / Water												

Special Instructions/Comments:

TAL Metals:
Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, Sb, Se, Tl, V, Zn

Login PFAS / 1,4-Dioxane on Separate SDG

Turnaround Requirements

___ RUSH (SURCHARGES APPLY)

✓ Standard

REQUESTED FAX DATE

Requested Report Date

Report Requirements

___ I. Results Only
___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
X IV. Data Validation Report with Raw Data

EData X Yes ___ No
NYSDEC Equis v.4

Invoice Information

P.O.# 235198A

Bill To:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: Rob Murphy	Printed Name: Daniel NWC	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Leader	Firm: ALS	Firm	Firm	Firm	Firm
Date/Time: 12/5/19 1705	Date/Time: 12/5/19 / 1705	Date/Time	Date/Time	Date/Time	

R1911945 5
Leader Professional Services, Inc.
Tonawanda Bisonite Paint

Cooler Receipt and Preservation Check Form

R1911945 5
Leader Professional Services, Inc.
Tonawanda Bisonite Paint

Project/Client Leader Folder Number

Cooler received on 12/5/19 by: dlw

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	Y (N)	5a	**Perchlorate** samples have required headspace?	Y N (NA)
2	**Custody papers** properly completed (ink, signed)?	(Y) N	5b	Did (VOA) vials, Alk,or Sulfide have sig* **bubbles**?	(Y) N NA
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N	6	Where did the bottles originate?	ALS/ROC CLIENT
4	Circle: ~~Wet Ice~~ **Dry Ice Gel packs** present?	(Y) N	7	Soil VOA received as:	Bulk Encore 5035set NA

3. Temperature Readings Date: 12/5/19 Time: 1740 ID: IR#7 IR#10 From: Temp Blank ~~Sample Bottle~~

Observed Temp (°C)	3.1°	3.0	19.9	19.1°	4.6°	2.8°	5.8°
Within 0-6°C?	(Y) N	(Y) N	Y (N)**	Y (N)	(Y) N	(Y) N	(Y) N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) ~~Same Day Rule~~**

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: Rack by dlw on 12/5/19 at 1740
5035 samples placed in storage location: _____ by _____ on _____ at _____

Cooler Breakdown/Preservation Check**: Date: 12/9/19 Time: 1610 by: dlw

9.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?	(YES)	NO
10.	Did all bottle labels and tags agree with custody papers?	(YES)	NO
11.	Were correct containers used for the tests indicated?	(YES)	NO
12.	Were 5035 vials acceptable (no extra labels, not leaking)?	(YES)	NO ~~N/A~~ dlw 12/9/19
13.	Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized		Tedlar® Bags Inflated ~~N/A~~

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2		HNO_3								
≤2		H_2SO_4								
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-						
		HCl	**	**	3108-15					

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 080519-152, 080519-1TW, 64960-C2603

Explain all Discrepancies/ Other Comments:

~~**~~ 1 vial for the trip blank.

HPROD	BULK
HTR	FLDT
(SUB)	HGFB
ALS	LL3541

Labels secondary reviewed by: dlw

PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.

J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).

B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.

E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.

E Organics- Concentration has exceeded the calibration range for that specific analysis.

D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.

* Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.

H Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.

Spike was diluted out.

\+ Correlation coefficient for MSA is <0.995.

N Inorganics- Matrix spike recovery was outside laboratory limits.

N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.

S Concentration has been determined using Method of Standard Additions (MSA).

W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.

P Concentration >40% difference between the two GC columns.

C Confirmed by GC/MS

Q DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).

X See Case Narrative for discussion.

MRL Method Reporting Limit. Also known as:
LOQ Limit of Quantitation (LOQ)
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.

MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).

LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.

ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

[1] Analyses were performed according to our laboratoryôs NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: Leader Professional Services, Inc. **Service Request:** R1911945
Project: Tonawanda Bisonite Paint

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
ALS SOP	Soil	Total Solids

Client: Leader Professional Services, Inc. **Service Request:** R1911945
Project: Tonawanda Bisonite Paint/

Sample Name: SB2 1-2 **Date Collected:** 12/4/19
Lab Code: R1911945-001 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
7471B	AKONZEL	KMCLAEN
8081B	KSERCU	BALLGEIER
8082A	KSERCU	BALLGEIER
8151A	KSERCU	BALLGEIER
8260C		FNAEGLER
8270D	AFELSER	JMISIUREWICZ
9012B	MROGERSON	MROGERSON
ALS SOP		GKNIGHT

Sample Name: SB2 4-6 **Date Collected:** 12/4/19
Lab Code: R1911945-002 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
7471B	AKONZEL	KMCLAEN
8081B	KSERCU	BALLGEIER
8082A	KSERCU	BALLGEIER
8151A	KSERCU	BALLGEIER
8260C		FNAEGLER
8270D	AFELSER	JMISIUREWICZ
9012B	MROGERSON	MROGERSON
ALS SOP		GKNIGHT

Sample Name: SB2 4-6 **Date Collected:** 12/4/19
Lab Code: R1911945-002.R01 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
8270D	AFELSER	JMISIUREWICZ

Client: Leader Professional Services, Inc. **Service Request:** R1911945
Project: Tonawanda Bisonite Paint/

Sample Name: SB2 15-17 **Date Collected:** 12/4/19
Lab Code: R1911945-003 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
7471B	AKONZEL	KMCLAEN
8081B	KSERCU	BALLGEIER
8082A	KSERCU	BALLGEIER
8151A	KSERCU	BALLGEIER
8260C		FNAEGLER
8270D	AFELSER	JMISIUREWICZ
9012B	MROGERSON	MROGERSON
ALS SOP		GKNIGHT

Sample Name: SB2 15-17 **Date Collected:** 12/4/19
Lab Code: R1911945-003.R01 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
8270D	AFELSER	JMISIUREWICZ

Sample Name: SB3 1-2 **Date Collected:** 12/4/19
Lab Code: R1911945-004 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
7471B	AKONZEL	KMCLAEN
8081B	KSERCU	BALLGEIER
8082A	KSERCU	BALLGEIER
8151A	KSERCU	BALLGEIER
8260C		FNAEGLER
8270D	AFELSER	JMISIUREWICZ
9012B	MROGERSON	MROGERSON
ALS SOP		GKNIGHT

Client: Leader Professional Services, Inc. **Service Request:** R1911945
Project: Tonawanda Bisonite Paint/

Sample Name: SB3 1-2 **Date Collected:** 12/4/19
Lab Code: R1911945-004.R01 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name: SB3 4-6 **Date Collected:** 12/4/19
Lab Code: R1911945-005 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
7471B	AKONZEL	KMCLAEN
8081B	KSERCU	BALLGEIER
8082A	KSERCU	BALLGEIER
8151A	KSERCU	BALLGEIER
8260C		FNAEGLER
8270D	AFELSER	JMISIUREWICZ
9012B	MROGERSON	MROGERSON
ALS SOP		GKNIGHT

Sample Name: SB3 4-6 **Date Collected:** 12/4/19
Lab Code: R1911945-005.R01 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	AFELSER	JMISIUREWICZ

Sample Name: SB3 10-12 **Date Collected:** 12/4/19
Lab Code: R1911945-006 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
7471B	AKONZEL	KMCLAEN

Client: Leader Professional Services, Inc. **Service Request:** R1911945
Project: Tonawanda Bisonite Paint/

Sample Name: SB3 10-12 **Date Collected:** 12/4/19
Lab Code: R1911945-006 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	JMISIUREWICZ
8082A	KSERCU	BALLGEIER
8151A	KSERCU	BALLGEIER
8260C		FNAEGLER
8270D	AFELSER	JMISIUREWICZ
9012B	MROGERSON	MROGERSON
ALS SOP		GKNIGHT

Sample Name: Trip Blank 1 **Date Collected:** 12/4/19
Lab Code: R1911945-007 **Date Received:** 12/5/19
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: Trip Blank 2 **Date Collected:** 12/4/19
Lab Code: R1911945-008 **Date Received:** 12/5/19
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: SB4 1-2 **Date Collected:** 12/4/19
Lab Code: R1911945-009 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
7471B	AKONZEL	KMCLAEN
8081B	KSERCU	AMOSES
8082A	KSERCU	BALLGEIER

Client: Leader Professional Services, Inc. **Service Request:** R1911945
Project: Tonawanda Bisonite Paint/

Sample Name: SB4 1-2 **Date Collected:** 12/4/19
Lab Code: R1911945-009 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8151A	KSERCU	BALLGEIER
8260C		FNAEGLER
8270D	AFELSER	JMISIUREWICZ
9012B	MROGERSON	MROGERSON
ALS SOP		GKNIGHT

Sample Name: SB4 1-2 **Date Collected:** 12/4/19
Lab Code: R1911945-009.R01 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name: SB4 1-2 Dup **Date Collected:** 12/4/19
Lab Code: R1911945-010 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
7471B	AKONZEL	KMCLAEN
8081B	KSERCU	JMISIUREWICZ
8082A	KSERCU	BALLGEIER
8151A	KSERCU	BALLGEIER
8260C		FNAEGLER
8270D	AFELSER	JMISIUREWICZ
9012B	MROGERSON	MROGERSON
ALS SOP		GKNIGHT

Client: Leader Professional Services, Inc. **Service Request:** R1911945
Project: Tonawanda Bisonite Paint/

Sample Name: SB4 16-18 **Date Collected:** 12/4/19
Lab Code: R1911945-011 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
7471B	AKONZEL	KMCLAEN
8081B	KSERCU	JMISIUREWICZ
8082A	KSERCU	BALLGEIER
8151A	KSERCU	BALLGEIER
8260C		FNAEGLER
8270D	AFELSER	JMISIUREWICZ
9012B	MROGERSON	MROGERSON
ALS SOP		GKNIGHT

Sample Name: SB5 3-5 **Date Collected:** 12/4/19
Lab Code: R1911945-012 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
7471B	AKONZEL	KMCLAEN
8081B	KSERCU	BALLGEIER
8082A	KSERCU	BALLGEIER
8151A	KSERCU	BALLGEIER
8260C		FNAEGLER
8270D	AFELSER	JMISIUREWICZ
9012B	MROGERSON	MROGERSON
ALS SOP		GKNIGHT

Sample Name: SB5 7-8 **Date Collected:** 12/4/19
Lab Code: R1911945-013 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
7471B	AKONZEL	KMCLAEN

Client: Leader Professional Services, Inc. **Service Request:** R1911945
Project: Tonawanda Bisonite Paint/

Sample Name: SB5 7-8 **Date Collected:** 12/4/19
Lab Code: R1911945-013 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	BALLGEIER
8082A	KSERCU	BALLGEIER
8151A	KSERCU	BALLGEIER
8260C		FNAEGLER
8270D	AFELSER	JMISIUREWICZ
9012B	MROGERSON	MROGERSON
ALS SOP		GKNIGHT

Sample Name: SB5 7-8 **Date Collected:** 12/4/19
Lab Code: R1911945-013.R01 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
8270D	AFELSER	JMISIUREWICZ

Sample Name: SB5 12-14 **Date Collected:** 12/4/19
Lab Code: R1911945-014 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
7471B	AKONZEL	KMCLAEN
8081B	KSERCU	JMISIUREWICZ
8082A	KSERCU	BALLGEIER
8151A	KSERCU	BALLGEIER
8260C		FNAEGLER
8270D	AFELSER	JMISIUREWICZ
9012B	MROGERSON	MROGERSON
ALS SOP		GKNIGHT

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	

Sample Results

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 10:40
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB2 1-2	**Units:**	ug/Kg
Lab Code:	R1911945-001	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	410 U	410	17	72	12/16/19 17:18	
1,1,2,2-Tetrachloroethane	410 U	410	17	72	12/16/19 17:18	
1,1,2-Trichloroethane	410 U	410	17	72	12/16/19 17:18	
1,1,2-Trichloro-1,2,2-trifluoroethane	410 U	410	17	72	12/16/19 17:18	
1,1-Dichloroethane (1,1-DCA)	410 U	410	17	72	12/16/19 17:18	
1,1-Dichloroethene (1,1-DCE)	410 U	410	24	72	12/16/19 17:18	
1,2,3-Trichlorobenzene	410 U	410	43	72	12/16/19 17:18	
1,2,4-Trichlorobenzene	410 U	410	35	72	12/16/19 17:18	
1,2-Dibromo-3-chloropropane (DBCP)	410 U	410	24	72	12/16/19 17:18	
1,2-Dibromoethane	410 U	410	17	72	12/16/19 17:18	
1,2-Dichlorobenzene	410 U	410	17	72	12/16/19 17:18	
1,2-Dichloroethane	410 U	410	17	72	12/16/19 17:18	
1,2-Dichloropropane	410 U	410	17	72	12/16/19 17:18	
1,3-Dichlorobenzene	410 U	410	17	72	12/16/19 17:18	
1,4-Dichlorobenzene	410 U	410	18	72	12/16/19 17:18	
1,4-Dioxane	8200 U	8200	1700	72	12/16/19 17:18	
2-Butanone (MEK)	410 U	410	170	72	12/16/19 17:18	
2-Hexanone	410 U	410	30	72	12/16/19 17:18	
4-Methyl-2-pentanone	410 U	410	19	72	12/16/19 17:18	
Acetone	410 U	410	390	72	12/16/19 17:18	
Benzene	**160 J**	410	17	72	12/16/19 17:18	
Bromochloromethane	410 U	410	17	72	12/16/19 17:18	
Bromodichloromethane	410 U	410	17	72	12/16/19 17:18	
Bromoform	410 U	410	41	72	12/16/19 17:18	
Bromomethane	410 U	410	180	72	12/16/19 17:18	
Carbon Disulfide	410 U	410	24	72	12/16/19 17:18	
Carbon Tetrachloride	410 U	410	22	72	12/16/19 17:18	
Chlorobenzene	410 U	410	17	72	12/16/19 17:18	
Chloroethane	410 U	410	17	72	12/16/19 17:18	
Chloroform	410 U	410	17	72	12/16/19 17:18	
Chloromethane	410 U	410	120	72	12/16/19 17:18	
Cyclohexane	410 U	410	22	72	12/16/19 17:18	
Dibromochloromethane	410 U	410	17	72	12/16/19 17:18	
Dichlorodifluoromethane (CFC 12)	410 U	410	27	72	12/16/19 17:18	
Dichloromethane	410 U	410	230	72	12/16/19 17:18	
Ethylbenzene	**240 J**	410	17	72	12/16/19 17:18	
Isopropylbenzene (Cumene)	**51 J**	410	17	72	12/16/19 17:18	
Methyl Acetate	**350 J**	410	69	72	12/16/19 17:18	
Methyl tert-Butyl Ether	410 U	410	17	72	12/16/19 17:18	
Methylcyclohexane	**78 J**	410	26	72	12/16/19 17:18	
Styrene	410 U	410	17	72	12/16/19 17:18	
Tetrachloroethene (PCE)	410 U	410	19	72	12/16/19 17:18	
Toluene	**510**	410	17	72	12/16/19 17:18	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 10:40
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB2 1-2	**Units:**	ug/Kg
Lab Code:	R1911945-001	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	410	U	410	18	72	12/16/19 17:18	
Trichlorofluoromethane (CFC 11)	410	U	410	22	72	12/16/19 17:18	
Vinyl Chloride	410	U	410	38	72	12/16/19 17:18	
cis-1,2-Dichloroethene	410	U	410	17	72	12/16/19 17:18	
cis-1,3-Dichloropropene	410	U	410	17	72	12/16/19 17:18	
m,p-Xylenes	**2400**		820	31	72	12/16/19 17:18	
o-Xylene	**130**	**J**	410	17	72	12/16/19 17:18	
trans-1,2-Dichloroethene	410	U	410	17	72	12/16/19 17:18	
trans-1,3-Dichloropropene	410	U	410	17	72	12/16/19 17:18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	31 - 154	12/16/19 17:18	
Dibromofluoromethane	80	63 - 138	12/16/19 17:18	
Toluene-d8	92	66 - 138	12/16/19 17:18	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	1.42	580	J
000095-63-6	Benzene, 1,2,4-trimethyl-	11.46	660	JN

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 10:50
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB2 4-6	**Units:**	ug/Kg
Lab Code:	R1911945-002	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	110000	U	110000	4600	19700	12/16/19 18:46	
1,1,2,2-Tetrachloroethane	110000	U	110000	4600	19700	12/16/19 18:46	
1,1,2-Trichloroethane	110000	U	110000	4600	19700	12/16/19 18:46	
1,1,2-Trichloro-1,2,2-trifluoroethane	110000	U	110000	4600	19700	12/16/19 18:46	
1,1-Dichloroethane (1,1-DCA)	110000	U	110000	4600	19700	12/16/19 18:46	
1,1-Dichloroethene (1,1-DCE)	110000	U	110000	6600	19700	12/16/19 18:46	
1,2,3-Trichlorobenzene	110000	U	110000	12000	19700	12/16/19 18:46	
1,2,4-Trichlorobenzene	110000	U	110000	9500	19700	12/16/19 18:46	
1,2-Dibromo-3-chloropropane (DBCP)	110000	U	110000	6600	19700	12/16/19 18:46	
1,2-Dibromoethane	110000	U	110000	4600	19700	12/16/19 18:46	
1,2-Dichlorobenzene	**15000**	**J**	110000	4600	19700	12/16/19 18:46	
1,2-Dichloroethane	110000	U	110000	4600	19700	12/16/19 18:46	
1,2-Dichloropropane	110000	U	110000	4600	19700	12/16/19 18:46	
1,3-Dichlorobenzene	110000	U	110000	4600	19700	12/16/19 18:46	
1,4-Dichlorobenzene	110000	U	110000	5000	19700	12/16/19 18:46	
1,4-Dioxane	2300000	U	2300000	460000	19700	12/16/19 18:46	
2-Butanone (MEK)	110000	U	110000	46000	19700	12/16/19 18:46	
2-Hexanone	110000	U	110000	8200	19700	12/16/19 18:46	
4-Methyl-2-pentanone	**16000**	**J**	110000	5200	19700	12/16/19 18:46	
Acetone	110000	U	110000	110000	19700	12/16/19 18:46	
Benzene	**15000**	**J**	110000	4600	19700	12/16/19 18:46	
Bromochloromethane	110000	U	110000	4600	19700	12/16/19 18:46	
Bromodichloromethane	110000	U	110000	4600	19700	12/16/19 18:46	
Bromoform	110000	U	110000	12000	19700	12/16/19 18:46	
Bromomethane	110000	U	110000	48000	19700	12/16/19 18:46	
Carbon Disulfide	110000	U	110000	6600	19700	12/16/19 18:46	
Carbon Tetrachloride	110000	U	110000	5900	19700	12/16/19 18:46	
Chlorobenzene	**12000**	**J**	110000	4600	19700	12/16/19 18:46	
Chloroethane	110000	U	110000	4600	19700	12/16/19 18:46	
Chloroform	110000	U	110000	4600	19700	12/16/19 18:46	
Chloromethane	110000	U	110000	32000	19700	12/16/19 18:46	
Cyclohexane	110000	U	110000	5900	19700	12/16/19 18:46	
Dibromochloromethane	110000	U	110000	4600	19700	12/16/19 18:46	
Dichlorodifluoromethane (CFC 12)	110000	U	110000	7500	19700	12/16/19 18:46	
Dichloromethane	110000	U	110000	64000	19700	12/16/19 18:46	
Ethylbenzene	**790000**		110000	4600	19700	12/16/19 18:46	
Isopropylbenzene (Cumene)	**61000**	**J**	110000	4600	19700	12/16/19 18:46	
Methyl Acetate	110000	U	110000	19000	19700	12/16/19 18:46	
Methyl tert-Butyl Ether	110000	U	110000	4600	19700	12/16/19 18:46	
Methylcyclohexane	110000	U	110000	7100	19700	12/16/19 18:46	
Styrene	110000	U	110000	4600	19700	12/16/19 18:46	
Tetrachloroethene (PCE)	110000	U	110000	5200	19700	12/16/19 18:46	
Toluene	**12000000**	**E**	110000	4600	19700	12/16/19 18:46	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 10:50
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB2 4-6	**Units:**	ug/Kg
Lab Code:	R1911945-002	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	110000 U	110000	5000	19700	12/16/19 18:46	
Trichlorofluoromethane (CFC 11)	110000 U	110000	5900	19700	12/16/19 18:46	
Vinyl Chloride	110000 U	110000	11000	19700	12/16/19 18:46	
cis-1,2-Dichloroethene	110000 U	110000	4600	19700	12/16/19 18:46	
cis-1,3-Dichloropropene	110000 U	110000	4600	19700	12/16/19 18:46	
m,p-Xylenes	**3300000**	230000	8400	19700	12/16/19 18:46	
o-Xylene	**1200000**	110000	4600	19700	12/16/19 18:46	
trans-1,2-Dichloroethene	110000 U	110000	4600	19700	12/16/19 18:46	
trans-1,3-Dichloropropene	110000 U	110000	4600	19700	12/16/19 18:46	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	31 - 154	12/16/19 18:46	
Dibromofluoromethane	87	63 - 138	12/16/19 18:46	
Toluene-d8	95	66 - 138	12/16/19 18:46	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
000696-29-7	Cyclohexane, (1-methylethyl)-	10.48	160000	JN
	unknown	10.78	180000	J
	unknown	10.88	270000	J
000620-14-4	Benzene, 1-ethyl-3-methyl-	11.06	560000	JN
000108-67-8	Benzene, 1,3,5-trimethyl-	11.14	560000	JN
000124-18-5	Decane	11.19	1400000	JN
000611-14-3	Benzene, 1-ethyl-2-methyl-	11.31	170000	JN
000095-63-6	Benzene, 1,2,4-trimethyl-	11.46	1400000	JN
001678-93-9	Cyclohexane, butyl-	11.67	160000	JN
000526-73-8	Benzene, 1,2,3-trimethyl-	11.81	660000	JN
006975-98-0	Decane, 2-methyl-	11.86	190000	JN
013151-34-3	Decane, 3-methyl-	11.93	160000	JN
001074-43-7	Benzene, 1-methyl-3-propyl-	12.01	250000	JN
000629-50-5	Tridecane	12.19	940000	JN
000099-87-6	Benzene, 1-methyl-4-(1-methylethyl	12.31	170000	JN
002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	12.37	310000	JN
	unknown	12.48	190000	J
000095-93-2	Benzene, 1,2,4,5-tetramethyl-	12.73	190000	JN
	unknown	13.06	270000	J
000111-84-2	Nonane	9.96	310000	JN

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 10:50
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB2 4-6	**Units:**	ug/Kg
Lab Code:	R1911945-002	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	560000	U	560000	23000	98500	12/17/19 12:10	
1,1,2,2-Tetrachloroethane	560000	U	560000	23000	98500	12/17/19 12:10	
1,1,2-Trichloroethane	560000	U	560000	23000	98500	12/17/19 12:10	
1,1,2-Trichloro-1,2,2-trifluoroethane	560000	U	560000	23000	98500	12/17/19 12:10	
1,1-Dichloroethane (1,1-DCA)	560000	U	560000	23000	98500	12/17/19 12:10	
1,1-Dichloroethene (1,1-DCE)	560000	U	560000	33000	98500	12/17/19 12:10	
1,2,3-Trichlorobenzene	560000	U	560000	59000	98500	12/17/19 12:10	
1,2,4-Trichlorobenzene	560000	U	560000	48000	98500	12/17/19 12:10	
1,2-Dibromo-3-chloropropane (DBCP)	560000	U	560000	33000	98500	12/17/19 12:10	
1,2-Dibromoethane	560000	U	560000	23000	98500	12/17/19 12:10	
1,2-Dichlorobenzene	560000	U	560000	23000	98500	12/17/19 12:10	
1,2-Dichloroethane	560000	U	560000	23000	98500	12/17/19 12:10	
1,2-Dichloropropane	560000	U	560000	23000	98500	12/17/19 12:10	
1,3-Dichlorobenzene	560000	U	560000	23000	98500	12/17/19 12:10	
1,4-Dichlorobenzene	560000	U	560000	25000	98500	12/17/19 12:10	
1,4-Dioxane	11000000	U	11000000	2300000	98500	12/17/19 12:10	
2-Butanone (MEK)	560000	U	560000	230000	98500	12/17/19 12:10	
2-Hexanone	560000	U	560000	41000	98500	12/17/19 12:10	
4-Methyl-2-pentanone	560000	U	560000	26000	98500	12/17/19 12:10	
Acetone	560000	U	560000	540000	98500	12/17/19 12:10	
Benzene	560000	U	560000	23000	98500	12/17/19 12:10	
Bromochloromethane	560000	U	560000	23000	98500	12/17/19 12:10	
Bromodichloromethane	560000	U	560000	23000	98500	12/17/19 12:10	
Bromoform	560000	U	560000	57000	98500	12/17/19 12:10	
Bromomethane	560000	U	560000	240000	98500	12/17/19 12:10	
Carbon Disulfide	560000	U	560000	33000	98500	12/17/19 12:10	
Carbon Tetrachloride	560000	U	560000	30000	98500	12/17/19 12:10	
Chlorobenzene	560000	U	560000	23000	98500	12/17/19 12:10	
Chloroethane	560000	U	560000	23000	98500	12/17/19 12:10	
Chloroform	560000	U	560000	23000	98500	12/17/19 12:10	
Chloromethane	560000	U	560000	160000	98500	12/17/19 12:10	
Cyclohexane	560000	U	560000	30000	98500	12/17/19 12:10	
Dibromochloromethane	560000	U	560000	23000	98500	12/17/19 12:10	
Dichlorodifluoromethane (CFC 12)	560000	U	560000	38000	98500	12/17/19 12:10	
Dichloromethane	560000	U	560000	320000	98500	12/17/19 12:10	
Ethylbenzene	**840000**	**D**	560000	23000	98500	12/17/19 12:10	
Isopropylbenzene (Cumene)	**66000**	**DJ**	560000	23000	98500	12/17/19 12:10	
Methyl Acetate	560000	U	560000	95000	98500	12/17/19 12:10	
Methyl tert-Butyl Ether	560000	U	560000	23000	98500	12/17/19 12:10	
Methylcyclohexane	560000	U	560000	36000	98500	12/17/19 12:10	
Styrene	560000	U	560000	23000	98500	12/17/19 12:10	
Tetrachloroethene (PCE)	560000	U	560000	26000	98500	12/17/19 12:10	
Toluene	**13000000**	**D**	560000	23000	98500	12/17/19 12:10	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 10:50
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB2 4-6	**Units:**	ug/Kg
Lab Code:	R1911945-002	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	560000	U	560000	25000	98500	12/17/19 12:10	
Trichlorofluoromethane (CFC 11)	560000	U	560000	30000	98500	12/17/19 12:10	
Vinyl Chloride	560000	U	560000	52000	98500	12/17/19 12:10	
cis-1,2-Dichloroethene	560000	U	560000	23000	98500	12/17/19 12:10	
cis-1,3-Dichloropropene	560000	U	560000	23000	98500	12/17/19 12:10	
m,p-Xylenes	**3600000**	**D**	1100000	42000	98500	12/17/19 12:10	
o-Xylene	**1300000**	**D**	560000	23000	98500	12/17/19 12:10	
trans-1,2-Dichloroethene	560000	U	560000	23000	98500	12/17/19 12:10	
trans-1,3-Dichloropropene	560000	U	560000	23000	98500	12/17/19 12:10	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	31 - 154	12/17/19 12:10	
Dibromofluoromethane	88	63 - 138	12/17/19 12:10	
Toluene-d8	97	66 - 138	12/17/19 12:10	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
000620-14-4	Benzene, 1-ethyl-3-methyl-	11.06	780000	JN
000108-67-8	Benzene, 1,3,5-trimethyl-	11.14	660000	JN
000124-18-5	Decane	11.19	950000	JN
000095-63-6	Benzene, 1,2,4-trimethyl-	11.46	1400000	JN
000934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	12.06	570000	JN
001120-21-4	Undecane	12.19	660000	JN

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:00
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB2 15-17	**Units:**	ug/Kg
Lab Code:	R1911945-003	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	7100	U	7100	290	1130	12/16/19 18:02	
1,1,2,2-Tetrachloroethane	7100	U	7100	290	1130	12/16/19 18:02	
1,1,2-Trichloroethane	7100	U	7100	290	1130	12/16/19 18:02	
1,1,2-Trichloro-1,2,2-trifluoroethane	7100	U	7100	290	1130	12/16/19 18:02	
1,1-Dichloroethane (1,1-DCA)	7100	U	7100	290	1130	12/16/19 18:02	
1,1-Dichloroethene (1,1-DCE)	7100	U	7100	420	1130	12/16/19 18:02	
1,2,3-Trichlorobenzene	7100	U	7100	740	1130	12/16/19 18:02	
1,2,4-Trichlorobenzene	7100	U	7100	600	1130	12/16/19 18:02	
1,2-Dibromo-3-chloropropane (DBCP)	7100	U	7100	420	1130	12/16/19 18:02	
1,2-Dibromoethane	7100	U	7100	290	1130	12/16/19 18:02	
1,2-Dichlorobenzene	**1300**	**J**	7100	290	1130	12/16/19 18:02	
1,2-Dichloroethane	7100	U	7100	290	1130	12/16/19 18:02	
1,2-Dichloropropane	7100	U	7100	290	1130	12/16/19 18:02	
1,3-Dichlorobenzene	7100	U	7100	290	1130	12/16/19 18:02	
1,4-Dichlorobenzene	7100	U	7100	320	1130	12/16/19 18:02	
1,4-Dioxane	140000	U	140000	29000	1130	12/16/19 18:02	
2-Butanone (MEK)	7100	U	7100	2900	1130	12/16/19 18:02	
2-Hexanone	7100	U	7100	510	1130	12/16/19 18:02	
4-Methyl-2-pentanone	**910**	**J**	7100	330	1130	12/16/19 18:02	
Acetone	7100	U	7100	6700	1130	12/16/19 18:02	
Benzene	**700**	**J**	7100	290	1130	12/16/19 18:02	
Bromochloromethane	7100	U	7100	290	1130	12/16/19 18:02	
Bromodichloromethane	7100	U	7100	290	1130	12/16/19 18:02	
Bromoform	7100	U	7100	710	1130	12/16/19 18:02	
Bromomethane	7100	U	7100	3000	1130	12/16/19 18:02	
Carbon Disulfide	7100	U	7100	420	1130	12/16/19 18:02	
Carbon Tetrachloride	7100	U	7100	370	1130	12/16/19 18:02	
Chlorobenzene	**690**	**J**	7100	290	1130	12/16/19 18:02	
Chloroethane	7100	U	7100	290	1130	12/16/19 18:02	
Chloroform	7100	U	7100	290	1130	12/16/19 18:02	
Chloromethane	7100	U	7100	2000	1130	12/16/19 18:02	
Cyclohexane	7100	U	7100	370	1130	12/16/19 18:02	
Dibromochloromethane	7100	U	7100	290	1130	12/16/19 18:02	
Dichlorodifluoromethane (CFC 12)	7100	U	7100	470	1130	12/16/19 18:02	
Dichloromethane	7100	U	7100	4000	1130	12/16/19 18:02	
Ethylbenzene	**40000**		7100	290	1130	12/16/19 18:02	
Isopropylbenzene (Cumene)	**3400**	**J**	7100	290	1130	12/16/19 18:02	
Methyl Acetate	7100	U	7100	1200	1130	12/16/19 18:02	
Methyl tert-Butyl Ether	7100	U	7100	290	1130	12/16/19 18:02	
Methylcyclohexane	7100	U	7100	440	1130	12/16/19 18:02	
Styrene	7100	U	7100	290	1130	12/16/19 18:02	
Tetrachloroethene (PCE)	7100	U	7100	330	1130	12/16/19 18:02	
Toluene	**570000**	**E**	7100	290	1130	12/16/19 18:02	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:00
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB2 15-17	**Units:**	ug/Kg
Lab Code:	R1911945-003	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	7100 U	7100	320	1130	12/16/19 18:02	
Trichlorofluoromethane (CFC 11)	7100 U	7100	370	1130	12/16/19 18:02	
Vinyl Chloride	7100 U	7100	660	1130	12/16/19 18:02	
cis-1,2-Dichloroethene	7100 U	7100	290	1130	12/16/19 18:02	
cis-1,3-Dichloropropene	7100 U	7100	290	1130	12/16/19 18:02	
m,p-Xylenes	**170000**	14000	530	1130	12/16/19 18:02	
o-Xylene	**61000**	7100	290	1130	12/16/19 18:02	
trans-1,2-Dichloroethene	7100 U	7100	290	1130	12/16/19 18:02	
trans-1,3-Dichloropropene	7100 U	7100	290	1130	12/16/19 18:02	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	31 - 154	12/16/19 18:02	
Dibromofluoromethane	84	63 - 138	12/16/19 18:02	
Toluene-d8	96	66 - 138	12/16/19 18:02	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
001678-92-8	Cyclohexane, propyl-	10.48	15000	JN
	unknown	10.78	24000	J
	unknown	10.88	33000	J
000611-14-3	Benzene, 1-ethyl-2-methyl-	11.06	37000	JN
000108-67-8	Benzene, 1,3,5-trimethyl-	11.14	46000	JN
000124-18-5	Decane	11.19	190000	JN
000095-63-6	Benzene, 1,2,4-trimethyl-	11.46	120000	JN
	unknown	11.57	16000	J
001678-93-9	Cyclohexane, butyl-	11.67	24000	JN
013151-35-4	Decane, 5-methyl-	11.79	23000	JN
000526-73-8	Benzene, 1,2,3-trimethyl-	11.81	33000	JN
	unknown	11.86	25000	J
013151-34-3	Decane, 3-methyl-	11.93	20000	JN
001074-43-7	Benzene, 1-methyl-3-propyl-	12.01	26000	JN
001120-21-4	Undecane	12.19	140000	JN
	unknown	12.31	15000	J
000535-77-3	Benzene, 1-methyl-3-(1-methylethyl	12.37	21000	JN
000527-53-7	Benzene, 1,2,3,5-tetramethyl-	12.73	16000	JN
000112-40-3	Dodecane	13.06	31000	JN
000111-84-2	Nonane	9.96	32000	JN

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:00
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB2 15-17	**Units:**	ug/Kg
Lab Code:	R1911945-003	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	35000	U	35000	1500	5650	12/17/19 12:32	
1,1,2,2-Tetrachloroethane	35000	U	35000	1500	5650	12/17/19 12:32	
1,1,2-Trichloroethane	35000	U	35000	1500	5650	12/17/19 12:32	
1,1,2-Trichloro-1,2,2-trifluoroethane	35000	U	35000	1500	5650	12/17/19 12:32	
1,1-Dichloroethane (1,1-DCA)	35000	U	35000	1500	5650	12/17/19 12:32	
1,1-Dichloroethene (1,1-DCE)	35000	U	35000	2100	5650	12/17/19 12:32	
1,2,3-Trichlorobenzene	35000	U	35000	3700	5650	12/17/19 12:32	
1,2,4-Trichlorobenzene	35000	U	35000	3000	5650	12/17/19 12:32	
1,2-Dibromo-3-chloropropane (DBCP)	35000	U	35000	2100	5650	12/17/19 12:32	
1,2-Dibromoethane	35000	U	35000	1500	5650	12/17/19 12:32	
1,2-Dichlorobenzene	35000	U	35000	1500	5650	12/17/19 12:32	
1,2-Dichloroethane	35000	U	35000	1500	5650	12/17/19 12:32	
1,2-Dichloropropane	35000	U	35000	1500	5650	12/17/19 12:32	
1,3-Dichlorobenzene	35000	U	35000	1500	5650	12/17/19 12:32	
1,4-Dichlorobenzene	35000	U	35000	1600	5650	12/17/19 12:32	
1,4-Dioxane	710000	U	710000	150000	5650	12/17/19 12:32	
2-Butanone (MEK)	35000	U	35000	15000	5650	12/17/19 12:32	
2-Hexanone	35000	U	35000	2600	5650	12/17/19 12:32	
4-Methyl-2-pentanone	35000	U	35000	1700	5650	12/17/19 12:32	
Acetone	35000	U	35000	34000	5650	12/17/19 12:32	
Benzene	35000	U	35000	1500	5650	12/17/19 12:32	
Bromochloromethane	35000	U	35000	1500	5650	12/17/19 12:32	
Bromodichloromethane	35000	U	35000	1500	5650	12/17/19 12:32	
Bromoform	35000	U	35000	3600	5650	12/17/19 12:32	
Bromomethane	35000	U	35000	15000	5650	12/17/19 12:32	
Carbon Disulfide	35000	U	35000	2100	5650	12/17/19 12:32	
Carbon Tetrachloride	35000	U	35000	1900	5650	12/17/19 12:32	
Chlorobenzene	35000	U	35000	1500	5650	12/17/19 12:32	
Chloroethane	35000	U	35000	1500	5650	12/17/19 12:32	
Chloroform	35000	U	35000	1500	5650	12/17/19 12:32	
Chloromethane	35000	U	35000	10000	5650	12/17/19 12:32	
Cyclohexane	35000	U	35000	1900	5650	12/17/19 12:32	
Dibromochloromethane	35000	U	35000	1500	5650	12/17/19 12:32	
Dichlorodifluoromethane (CFC 12)	35000	U	35000	2400	5650	12/17/19 12:32	
Dichloromethane	35000	U	35000	20000	5650	12/17/19 12:32	
Ethylbenzene	**39000**	**D**	35000	1500	5650	12/17/19 12:32	
Isopropylbenzene (Cumene)	**3400**	**DJ**	35000	1500	5650	12/17/19 12:32	
Methyl Acetate	35000	U	35000	6000	5650	12/17/19 12:32	
Methyl tert-Butyl Ether	35000	U	35000	1500	5650	12/17/19 12:32	
Methylcyclohexane	35000	U	35000	2200	5650	12/17/19 12:32	
Styrene	35000	U	35000	1500	5650	12/17/19 12:32	
Tetrachloroethene (PCE)	35000	U	35000	1700	5650	12/17/19 12:32	
Toluene	**550000**	**D**	35000	1500	5650	12/17/19 12:32	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:00
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB2 15-17	**Units:**	ug/Kg
Lab Code:	R1911945-003	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	35000	U	35000	1600	5650	12/17/19 12:32	
Trichlorofluoromethane (CFC 11)	35000	U	35000	1900	5650	12/17/19 12:32	
Vinyl Chloride	35000	U	35000	3300	5650	12/17/19 12:32	
cis-1,2-Dichloroethene	35000	U	35000	1500	5650	12/17/19 12:32	
cis-1,3-Dichloropropene	35000	U	35000	1500	5650	12/17/19 12:32	
m,p-Xylenes	**170000**	**D**	71000	2700	5650	12/17/19 12:32	
o-Xylene	**59000**	**D**	35000	1500	5650	12/17/19 12:32	
trans-1,2-Dichloroethene	35000	U	35000	1500	5650	12/17/19 12:32	
trans-1,3-Dichloropropene	35000	U	35000	1500	5650	12/17/19 12:32	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	31 - 154	12/17/19 12:32	
Dibromofluoromethane	90	63 - 138	12/17/19 12:32	
Toluene-d8	98	66 - 138	12/17/19 12:32	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
000611-14-3	Benzene, 1-ethyl-2-methyl-	11.06	39000	JN
000108-67-8	Benzene, 1,3,5-trimethyl-	11.14	38000	JN
000124-18-5	Decane	11.19	120000	JN
000095-36-3	1,2,4-Trimethylbenzene	11.46	100000	JN
001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	12.06	40000	JN
000629-50-5	Tridecane	12.19	96000	JN

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:20
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB3 1-2	**Units:**	ug/Kg
Lab Code:	R1911945-004	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.4	U	5.4	0.22	1.03	12/11/19 14:12	
1,1,2,2-Tetrachloroethane	5.4	U	5.4	0.22	1.03	12/11/19 14:12	
1,1,2-Trichloroethane	5.4	U	5.4	0.22	1.03	12/11/19 14:12	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.4	U	5.4	0.22	1.03	12/11/19 14:12	
1,1-Dichloroethane (1,1-DCA)	5.4	U	5.4	0.22	1.03	12/11/19 14:12	
1,1-Dichloroethene (1,1-DCE)	5.4	U	5.4	0.32	1.03	12/11/19 14:12	
1,2,3-Trichlorobenzene	5.4	U	5.4	0.57	1.03	12/11/19 14:12	
1,2,4-Trichlorobenzene	5.4	U	5.4	0.46	1.03	12/11/19 14:12	
1,2-Dibromo-3-chloropropane (DBCP)	5.4	U	5.4	0.32	1.03	12/11/19 14:12	
1,2-Dibromoethane	5.4	U	5.4	0.22	1.03	12/11/19 14:12	
1,2-Dichlorobenzene	**0.35**	**J**	5.4	0.22	1.03	12/11/19 14:12	
1,2-Dichloroethane	5.4	U	5.4	0.22	1.03	12/11/19 14:12	
1,2-Dichloropropane	5.4	U	5.4	0.22	1.03	12/11/19 14:12	
1,3-Dichlorobenzene	5.4	U	5.4	0.22	1.03	12/11/19 14:12	
1,4-Dichlorobenzene	5.4	U	5.4	0.24	1.03	12/11/19 14:12	
1,4-Dioxane	110	U	110	22	1.03	12/11/19 14:12	
2-Butanone (MEK)	**8.2**		5.4	2.2	1.03	12/11/19 14:12	
2-Hexanone	5.4	U	5.4	0.40	1.03	12/11/19 14:12	
4-Methyl-2-pentanone	5.4	U	5.4	0.25	1.03	12/11/19 14:12	
Acetone	**14**		5.4	5.1	1.03	12/11/19 14:12	
Benzene	**14**		5.4	0.22	1.03	12/11/19 14:12	
Bromochloromethane	5.4	U	5.4	0.22	1.03	12/11/19 14:12	
Bromodichloromethane	5.4	U	5.4	0.22	1.03	12/11/19 14:12	
Bromoform	5.4	U	5.4	0.55	1.03	12/11/19 14:12	
Bromomethane	5.4	U	5.4	2.3	1.03	12/11/19 14:12	
Carbon Disulfide	**0.50**	**J**	5.4	0.32	1.03	12/11/19 14:12	
Carbon Tetrachloride	5.4	U	5.4	0.29	1.03	12/11/19 14:12	
Chlorobenzene	**0.29**	**J**	5.4	0.22	1.03	12/11/19 14:12	
Chloroethane	5.4	U	5.4	0.22	1.03	12/11/19 14:12	
Chloroform	5.4	U	5.4	0.22	1.03	12/11/19 14:12	
Chloromethane	5.4	U	5.4	1.6	1.03	12/11/19 14:12	
Cyclohexane	**28**		5.4	0.29	1.03	12/11/19 14:12	
Dibromochloromethane	5.4	U	5.4	0.22	1.03	12/11/19 14:12	
Dichlorodifluoromethane (CFC 12)	5.4	U	5.4	0.36	1.03	12/11/19 14:12	
Dichloromethane	5.4	U	5.4	3.1	1.03	12/11/19 14:12	
Ethylbenzene	**20**		5.4	0.22	1.03	12/11/19 14:12	
Isopropylbenzene (Cumene)	**1.4**	**J**	5.4	0.22	1.03	12/11/19 14:12	
Methyl Acetate	**5.2**	**J**	5.4	0.92	1.03	12/11/19 14:12	
Methyl tert-Butyl Ether	5.4	U	5.4	0.22	1.03	12/11/19 14:12	
Methylcyclohexane	**53**		5.4	0.34	1.03	12/11/19 14:12	
Styrene	5.4	U	5.4	0.22	1.03	12/11/19 14:12	
Tetrachloroethene (PCE)	5.4	U	5.4	0.25	1.03	12/11/19 14:12	
Toluene	**250**	**E**	5.4	0.22	1.03	12/11/19 14:12	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:20
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB3 1-2	**Units:**	ug/Kg
Lab Code:	R1911945-004	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.4 U	5.4	0.24	1.03	12/11/19 14:12	
Trichlorofluoromethane (CFC 11)	5.4 U	5.4	0.29	1.03	12/11/19 14:12	
Vinyl Chloride	5.4 U	5.4	0.50	1.03	12/11/19 14:12	
cis-1,2-Dichloroethene	5.4 U	5.4	0.22	1.03	12/11/19 14:12	
cis-1,3-Dichloropropene	5.4 U	5.4	0.22	1.03	12/11/19 14:12	
m,p-Xylenes	**110**	11	0.41	1.03	12/11/19 14:12	
o-Xylene	**34**	5.4	0.22	1.03	12/11/19 14:12	
trans-1,2-Dichloroethene	5.4 U	5.4	0.22	1.03	12/11/19 14:12	
trans-1,3-Dichloropropene	5.4 U	5.4	0.22	1.03	12/11/19 14:12	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	82	31 - 154	12/11/19 14:12	
Dibromofluoromethane	96	63 - 138	12/11/19 14:12	
Toluene-d8	97	66 - 138	12/11/19 14:12	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
004923-78-8	Cyclohexane, 1-ethyl-2-methyl-, tr	10.19	26	JN
001678-92-8	Cyclohexane, propyl-	10.48	24	JN
	unknown	10.78	17	J
	unknown	10.88	43	J
000611-14-3	Benzene, 1-ethyl-2-methyl-	11.06	38	JN
000108-67-8	Benzene, 1,3,5-trimethyl-	11.14	48	JN
000124-18-5	Decane	11.19	57	JN
	unknown	11.30	19	J
000095-63-6	Benzene, 1,2,4-trimethyl-	11.46	72	JN
001678-93-9	Cyclohexane, butyl-	11.67	14	JN
000526-73-8	Benzene, 1,2,3-trimethyl-	11.81	21	JN
001120-21-4	Undecane	12.19	26	JN
000535-77-3	Benzene, 1-methyl-3-(1-methylethyl	12.37	15	JN
000142-82-5	Heptane	5.80	23	JN
000592-27-8	Heptane, 2-methyl-	7.53	13	JN
000638-04-0	Cyclohexane, 1,3-dimethyl-, cis-	7.89	20	JN
000111-65-9	Octane	8.27	18	JN
001678-91-7	Cyclohexane, ethyl-	9.02	16	JN
007667-60-9	Cyclohexane, 1,2,4-trimethyl-, (1.	9.33	14	JN
000111-84-2	Nonane	9.95	21	JN

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:20
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB3 1-2	**Units:**	ug/Kg
Lab Code:	R1911945-004	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	440	U	440	18	84.5	12/16/19 16:56	
1,1,2,2-Tetrachloroethane	440	U	440	18	84.5	12/16/19 16:56	
1,1,2-Trichloroethane	440	U	440	18	84.5	12/16/19 16:56	
1,1,2-Trichloro-1,2,2-trifluoroethane	440	U	440	18	84.5	12/16/19 16:56	
1,1-Dichloroethane (1,1-DCA)	440	U	440	18	84.5	12/16/19 16:56	
1,1-Dichloroethene (1,1-DCE)	440	U	440	26	84.5	12/16/19 16:56	
1,2,3-Trichlorobenzene	440	U	440	47	84.5	12/16/19 16:56	
1,2,4-Trichlorobenzene	440	U	440	38	84.5	12/16/19 16:56	
1,2-Dibromo-3-chloropropane (DBCP)	440	U	440	26	84.5	12/16/19 16:56	
1,2-Dibromoethane	440	U	440	18	84.5	12/16/19 16:56	
1,2-Dichlorobenzene	440	U	440	18	84.5	12/16/19 16:56	
1,2-Dichloroethane	440	U	440	18	84.5	12/16/19 16:56	
1,2-Dichloropropane	440	U	440	18	84.5	12/16/19 16:56	
1,3-Dichlorobenzene	440	U	440	18	84.5	12/16/19 16:56	
1,4-Dichlorobenzene	440	U	440	20	84.5	12/16/19 16:56	
1,4-Dioxane	8900	U	8900	1800	84.5	12/16/19 16:56	
2-Butanone (MEK)	440	U	440	180	84.5	12/16/19 16:56	
2-Hexanone	440	U	440	33	84.5	12/16/19 16:56	
4-Methyl-2-pentanone	440	U	440	21	84.5	12/16/19 16:56	
Acetone	440	U	440	420	84.5	12/16/19 16:56	
Benzene	**56**	**DJ**	440	18	84.5	12/16/19 16:56	
Bromochloromethane	440	U	440	18	84.5	12/16/19 16:56	
Bromodichloromethane	440	U	440	18	84.5	12/16/19 16:56	
Bromoform	440	U	440	45	84.5	12/16/19 16:56	
Bromomethane	440	U	440	190	84.5	12/16/19 16:56	
Carbon Disulfide	440	U	440	26	84.5	12/16/19 16:56	
Carbon Tetrachloride	440	U	440	24	84.5	12/16/19 16:56	
Chlorobenzene	440	U	440	18	84.5	12/16/19 16:56	
Chloroethane	440	U	440	18	84.5	12/16/19 16:56	
Chloroform	440	U	440	18	84.5	12/16/19 16:56	
Chloromethane	440	U	440	130	84.5	12/16/19 16:56	
Cyclohexane	**140**	**DJ**	440	24	84.5	12/16/19 16:56	
Dibromochloromethane	440	U	440	18	84.5	12/16/19 16:56	
Dichlorodifluoromethane (CFC 12)	440	U	440	30	84.5	12/16/19 16:56	
Dichloromethane	440	U	440	250	84.5	12/16/19 16:56	
Ethylbenzene	**45**	**DJ**	440	18	84.5	12/16/19 16:56	
Isopropylbenzene (Cumene)	**25**	**DJ**	440	18	84.5	12/16/19 16:56	
Methyl Acetate	**330**	**DJ**	440	75	84.5	12/16/19 16:56	
Methyl tert-Butyl Ether	440	U	440	18	84.5	12/16/19 16:56	
Methylcyclohexane	**400**	**DJ**	440	28	84.5	12/16/19 16:56	
Styrene	440	U	440	18	84.5	12/16/19 16:56	
Tetrachloroethene (PCE)	440	U	440	21	84.5	12/16/19 16:56	
Toluene	**90**	**DJ**	440	18	84.5	12/16/19 16:56	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:20
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB3 1-2	**Units:**	ug/Kg
Lab Code:	R1911945-004	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	440 U	440	20	84.5	12/16/19 16:56	
Trichlorofluoromethane (CFC 11)	440 U	440	24	84.5	12/16/19 16:56	
Vinyl Chloride	440 U	440	41	84.5	12/16/19 16:56	
cis-1,2-Dichloroethene	440 U	440	18	84.5	12/16/19 16:56	
cis-1,3-Dichloropropene	440 U	440	18	84.5	12/16/19 16:56	
m,p-Xylenes	**200 DJ**	890	33	84.5	12/16/19 16:56	
o-Xylene	**24 DJ**	440	18	84.5	12/16/19 16:56	
trans-1,2-Dichloroethene	440 U	440	18	84.5	12/16/19 16:56	
trans-1,3-Dichloropropene	440 U	440	18	84.5	12/16/19 16:56	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	31 - 154	12/16/19 16:56	
Dibromofluoromethane	80	63 - 138	12/16/19 16:56	
Toluene-d8	94	66 - 138	12/16/19 16:56	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	1.42	510	J
000124-18-5	Decane	11.19	670	JN
000544-76-3	Hexadecane	12.19	790	JN
000112-40-3	Dodecane	13.06	930	JN
000629-50-5	Tridecane	13.86	600	JN
000141-78-6	Ethyl Acetate	3.96	450	JN

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:00
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB3 4-6	**Units:**	ug/Kg
Lab Code:	R1911945-005	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	10000	U	10000	410	1760	12/17/19 12:54	
1,1,2,2-Tetrachloroethane	10000	U	10000	410	1760	12/17/19 12:54	
1,1,2-Trichloroethane	10000	U	10000	410	1760	12/17/19 12:54	
1,1,2-Trichloro-1,2,2-trifluoroethane	10000	U	10000	410	1760	12/17/19 12:54	
1,1-Dichloroethane (1,1-DCA)	10000	U	10000	410	1760	12/17/19 12:54	
1,1-Dichloroethene (1,1-DCE)	10000	U	10000	590	1760	12/17/19 12:54	
1,2,3-Trichlorobenzene	10000	U	10000	1100	1760	12/17/19 12:54	
1,2,4-Trichlorobenzene	10000	U	10000	860	1760	12/17/19 12:54	
1,2-Dibromo-3-chloropropane (DBCP)	10000	U	10000	590	1760	12/17/19 12:54	
1,2-Dibromoethane	10000	U	10000	410	1760	12/17/19 12:54	
1,2-Dichlorobenzene	10000	U	10000	410	1760	12/17/19 12:54	
1,2-Dichloroethane	10000	U	10000	410	1760	12/17/19 12:54	
1,2-Dichloropropane	10000	U	10000	410	1760	12/17/19 12:54	
1,3-Dichlorobenzene	10000	U	10000	410	1760	12/17/19 12:54	
1,4-Dichlorobenzene	10000	U	10000	450	1760	12/17/19 12:54	
1,4-Dioxane	200000	U	200000	41000	1760	12/17/19 12:54	
2-Butanone (MEK)	10000	U	10000	4100	1760	12/17/19 12:54	
2-Hexanone	10000	U	10000	740	1760	12/17/19 12:54	
4-Methyl-2-pentanone	10000	U	10000	470	1760	12/17/19 12:54	
Acetone	10000	U	10000	9600	1760	12/17/19 12:54	
Benzene	10000	U	10000	410	1760	12/17/19 12:54	
Bromochloromethane	10000	U	10000	410	1760	12/17/19 12:54	
Bromodichloromethane	10000	U	10000	410	1760	12/17/19 12:54	
Bromoform	10000	U	10000	1100	1760	12/17/19 12:54	
Bromomethane	10000	U	10000	4300	1760	12/17/19 12:54	
Carbon Disulfide	10000	U	10000	590	1760	12/17/19 12:54	
Carbon Tetrachloride	10000	U	10000	530	1760	12/17/19 12:54	
Chlorobenzene	10000	U	10000	410	1760	12/17/19 12:54	
Chloroethane	10000	U	10000	410	1760	12/17/19 12:54	
Chloroform	10000	U	10000	410	1760	12/17/19 12:54	
Chloromethane	10000	U	10000	2900	1760	12/17/19 12:54	
Cyclohexane	10000	U	10000	530	1760	12/17/19 12:54	
Dibromochloromethane	10000	U	10000	410	1760	12/17/19 12:54	
Dichlorodifluoromethane (CFC 12)	10000	U	10000	680	1760	12/17/19 12:54	
Dichloromethane	10000	U	10000	5700	1760	12/17/19 12:54	
Ethylbenzene	**82000**		10000	410	1760	12/17/19 12:54	
Isopropylbenzene (Cumene)	**5900**	**J**	10000	410	1760	12/17/19 12:54	
Methyl Acetate	10000	U	10000	1800	1760	12/17/19 12:54	
Methyl tert-Butyl Ether	10000	U	10000	410	1760	12/17/19 12:54	
Methylcyclohexane	**910**	**J**	10000	640	1760	12/17/19 12:54	
Styrene	10000	U	10000	410	1760	12/17/19 12:54	
Tetrachloroethene (PCE)	10000	U	10000	470	1760	12/17/19 12:54	
Toluene	**89000**		10000	410	1760	12/17/19 12:54	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:00
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB3 4-6	**Units:**	ug/Kg
Lab Code:	R1911945-005	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	10000 U	10000	450	1760	12/17/19 12:54	
Trichlorofluoromethane (CFC 11)	10000 U	10000	530	1760	12/17/19 12:54	
Vinyl Chloride	10000 U	10000	940	1760	12/17/19 12:54	
cis-1,2-Dichloroethene	10000 U	10000	410	1760	12/17/19 12:54	
cis-1,3-Dichloropropene	10000 U	10000	410	1760	12/17/19 12:54	
m,p-Xylenes	**380000**	20000	760	1760	12/17/19 12:54	
o-Xylene	**41000**	10000	410	1760	12/17/19 12:54	
trans-1,2-Dichloroethene	10000 U	10000	410	1760	12/17/19 12:54	
trans-1,3-Dichloropropene	10000 U	10000	410	1760	12/17/19 12:54	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	31 - 154	12/17/19 12:54	
Dibromofluoromethane	89	63 - 138	12/17/19 12:54	
Toluene-d8	97	66 - 138	12/17/19 12:54	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	10.79	68000	J
	unknown	10.88	150000	J
000620-14-4	Benzene, 1-ethyl-3-methyl-	11.06	68000	JN
004291-79-6	Cyclohexane, 1-methyl-2-propyl-	11.12	87000	JN
000124-18-5	Decane	11.19	370000	JN
002847-72-5	Decane, 4-methyl-	11.44	210000	JN
	unknown	11.58	61000	J
	unknown	11.63	65000	J
001678-93-9	Cyclohexane, butyl-	11.67	77000	JN
013151-35-4	Decane, 5-methyl-	11.79	110000	JN
002847-72-5	Decane, 4-methyl-	11.82	74000	JN
006975-98-0	Decane, 2-methyl-	11.86	84000	JN
013151-34-3	Decane, 3-methyl-	11.93	100000	JN
	unknown	12.01	55000	J
	unknown	12.15	61000	J
001120-21-4	Undecane	12.19	420000	JN
	unknown	12.31	100000	J
	unknown	12.36	93000	J
	unknown	12.65	58000	J
000112-40-3	Dodecane	13.06	64000	JN

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:50
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB3 10-12	**Units:**	ug/Kg
Lab Code:	R1911945-006	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	3.7 U	3.7	0.15	.66	12/11/19 14:35	
1,1,2,2-Tetrachloroethane	3.7 U	3.7	0.15	.66	12/11/19 14:35	
1,1,2-Trichloroethane	3.7 U	3.7	0.15	.66	12/11/19 14:35	
1,1,2-Trichloro-1,2,2-trifluoroethane	3.7 U	3.7	0.15	.66	12/11/19 14:35	
1,1-Dichloroethane (1,1-DCA)	3.7 U	3.7	0.15	.66	12/11/19 14:35	
1,1-Dichloroethene (1,1-DCE)	3.7 U	3.7	0.22	.66	12/11/19 14:35	
1,2,3-Trichlorobenzene	3.7 U	3.7	0.39	.66	12/11/19 14:35	
1,2,4-Trichlorobenzene	3.7 U	3.7	0.32	.66	12/11/19 14:35	
1,2-Dibromo-3-chloropropane (DBCP)	3.7 U	3.7	0.22	.66	12/11/19 14:35	
1,2-Dibromoethane	3.7 U	3.7	0.15	.66	12/11/19 14:35	
1,2-Dichlorobenzene	3.7 U	3.7	0.15	.66	12/11/19 14:35	
1,2-Dichloroethane	3.7 U	3.7	0.15	.66	12/11/19 14:35	
1,2-Dichloropropane	3.7 U	3.7	0.15	.66	12/11/19 14:35	
1,3-Dichlorobenzene	3.7 U	3.7	0.15	.66	12/11/19 14:35	
1,4-Dichlorobenzene	3.7 U	3.7	0.17	.66	12/11/19 14:35	
1,4-Dioxane	74 U	74	15	.66	12/11/19 14:35	
2-Butanone (MEK)	3.7 U	3.7	1.5	.66	12/11/19 14:35	
2-Hexanone	3.7 U	3.7	0.27	.66	12/11/19 14:35	
4-Methyl-2-pentanone	**0.47 J**	3.7	0.18	.66	12/11/19 14:35	
Acetone	**14**	3.7	3.6	.66	12/11/19 14:35	
Benzene	**0.15 J**	3.7	0.15	.66	12/11/19 14:35	
Bromochloromethane	3.7 U	3.7	0.15	.66	12/11/19 14:35	
Bromodichloromethane	3.7 U	3.7	0.15	.66	12/11/19 14:35	
Bromoform	3.7 U	3.7	0.38	.66	12/11/19 14:35	
Bromomethane	3.7 U	3.7	1.6	.66	12/11/19 14:35	
Carbon Disulfide	3.7 U	3.7	0.22	.66	12/11/19 14:35	
Carbon Tetrachloride	3.7 U	3.7	0.20	.66	12/11/19 14:35	
Chlorobenzene	3.7 U	3.7	0.15	.66	12/11/19 14:35	
Chloroethane	3.7 U	3.7	0.15	.66	12/11/19 14:35	
Chloroform	3.7 U	3.7	0.15	.66	12/11/19 14:35	
Chloromethane	3.7 U	3.7	1.1	.66	12/11/19 14:35	
Cyclohexane	3.7 U	3.7	0.20	.66	12/11/19 14:35	
Dibromochloromethane	3.7 U	3.7	0.15	.66	12/11/19 14:35	
Dichlorodifluoromethane (CFC 12)	3.7 U	3.7	0.25	.66	12/11/19 14:35	
Dichloromethane	3.7 U	3.7	2.1	.66	12/11/19 14:35	
Ethylbenzene	**3.7**	3.7	0.15	.66	12/11/19 14:35	
Isopropylbenzene (Cumene)	**0.31 J**	3.7	0.15	.66	12/11/19 14:35	
Methyl Acetate	**11**	3.7	0.63	.66	12/11/19 14:35	
Methyl tert-Butyl Ether	3.7 U	3.7	0.15	.66	12/11/19 14:35	
Methylcyclohexane	**0.27 J**	3.7	0.24	.66	12/11/19 14:35	
Styrene	3.7 U	3.7	0.15	.66	12/11/19 14:35	
Tetrachloroethene (PCE)	3.7 U	3.7	0.18	.66	12/11/19 14:35	
Toluene	**7.8**	3.7	0.15	.66	12/11/19 14:35	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:50
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB3 10-12	**Units:**	ug/Kg
Lab Code:	R1911945-006	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	3.7 U	3.7	0.17	.66	12/11/19 14:35	
Trichlorofluoromethane (CFC 11)	3.7 U	3.7	0.20	.66	12/11/19 14:35	
Vinyl Chloride	3.7 U	3.7	0.35	.66	12/11/19 14:35	
cis-1,2-Dichloroethene	3.7 U	3.7	0.15	.66	12/11/19 14:35	
cis-1,3-Dichloropropene	3.7 U	3.7	0.15	.66	12/11/19 14:35	
m,p-Xylenes	**14**	7.4	0.28	.66	12/11/19 14:35	
o-Xylene	**3.4 J**	3.7	0.15	.66	12/11/19 14:35	
trans-1,2-Dichloroethene	3.7 U	3.7	0.15	.66	12/11/19 14:35	
trans-1,3-Dichloropropene	3.7 U	3.7	0.15	.66	12/11/19 14:35	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	31 - 154	12/11/19 14:35	
Dibromofluoromethane	95	63 - 138	12/11/19 14:35	
Toluene-d8	99	66 - 138	12/11/19 14:35	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
003728-54-9	Cyclohexane, 1-ethyl-2-methyl-	10.19	5.8	JN
001678-92-8	Cyclohexane, propyl-	10.48	5.4	JN
	unknown	10.78	4.3	J
	unknown	10.88	11	J
	unknown	11.12	5.8	J
000124-18-5	Decane	11.19	23	JN
002847-72-5	Decane, 4-methyl-	11.44	12	JN
	unknown	11.63	5.2	J
001678-93-9	Cyclohexane, butyl-	11.67	7.3	JN
013151-34-3	Decane, 3-methyl-	11.92	3.7	JN
000629-78-7	Heptadecane	12.19	17	JN
	unknown	12.31	4.6	J
000111-84-2	Nonane	9.96	4.0	JN

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19
Sample Matrix:	Water	**Date Received:**	12/05/19 17:05
Sample Name:	Trip Blank 1	**Units:**	ug/L
Lab Code:	R1911945-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.21	1	12/12/19 14:30	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	12/12/19 14:30	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	12/12/19 14:30	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	12/12/19 14:30	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	12/12/19 14:30	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.25	1	12/12/19 14:30	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.20	1	12/12/19 14:30	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.25	1	12/12/19 14:30	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	12/12/19 14:30	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	12/12/19 14:30	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	12/12/19 14:30	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	12/12/19 14:30	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	12/12/19 14:30	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	12/12/19 14:30	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	12/12/19 14:30	
1,4-Dioxane	40 U	40	13	1	12/12/19 14:30	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	12/12/19 14:30	
2-Hexanone	5.0 U	5.0	0.20	1	12/12/19 14:30	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	12/12/19 14:30	
Acetone	5.0 U	5.0	2.1	1	12/12/19 14:30	
Benzene	1.0 U	1.0	0.20	1	12/12/19 14:30	
Bromochloromethane	1.0 U	1.0	0.24	1	12/12/19 14:30	
Bromodichloromethane	1.0 U	1.0	0.22	1	12/12/19 14:30	
Bromoform	1.0 U	1.0	0.25	1	12/12/19 14:30	
Bromomethane	1.0 U	1.0	0.70	1	12/12/19 14:30	
Carbon Disulfide	1.0 U	1.0	0.25	1	12/12/19 14:30	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	12/12/19 14:30	
Chlorobenzene	1.0 U	1.0	0.20	1	12/12/19 14:30	
Chloroethane	1.0 U	1.0	0.23	1	12/12/19 14:30	
Chloroform	1.0 U	1.0	0.24	1	12/12/19 14:30	
Chloromethane	1.0 U	1.0	0.28	1	12/12/19 14:30	
Cyclohexane	1.0 U	1.0	0.26	1	12/12/19 14:30	
Dibromochloromethane	1.0 U	1.0	0.20	1	12/12/19 14:30	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	12/12/19 14:30	
Dichloromethane	1.0 U	1.0	0.36	1	12/12/19 14:30	
Ethylbenzene	1.0 U	1.0	0.20	1	12/12/19 14:30	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	12/12/19 14:30	
Methyl Acetate	2.0 U	2.0	0.33	1	12/12/19 14:30	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	12/12/19 14:30	
Methylcyclohexane	1.0 U	1.0	0.20	1	12/12/19 14:30	
Styrene	1.0 U	1.0	0.20	1	12/12/19 14:30	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	12/12/19 14:30	
Toluene	1.0 U	1.0	0.20	1	12/12/19 14:30	

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19
Sample Matrix:	Water	**Date Received:**	12/05/19 17:05
Sample Name:	Trip Blank 1	**Units:**	ug/L
Lab Code:	R1911945-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	12/12/19 14:30	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	12/12/19 14:30	
Vinyl Chloride	1.0 U	1.0	0.20	1	12/12/19 14:30	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	12/12/19 14:30	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	12/12/19 14:30	
m,p-Xylenes	2.0 U	2.0	0.20	1	12/12/19 14:30	
o-Xylene	1.0 U	1.0	0.20	1	12/12/19 14:30	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	12/12/19 14:30	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	12/12/19 14:30	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	12/12/19 14:30	
Dibromofluoromethane	91	89 - 119	12/12/19 14:30	
Toluene-d8	98	87 - 121	12/12/19 14:30	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19
Sample Matrix:	Water	**Date Received:**	12/05/19 17:05
Sample Name:	Trip Blank 2	**Units:**	ug/L
Lab Code:	R1911945-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.21	1	12/12/19 14:52	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	12/12/19 14:52	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	12/12/19 14:52	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	12/12/19 14:52	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	12/12/19 14:52	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.25	1	12/12/19 14:52	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.20	1	12/12/19 14:52	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.25	1	12/12/19 14:52	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	12/12/19 14:52	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	12/12/19 14:52	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	12/12/19 14:52	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	12/12/19 14:52	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	12/12/19 14:52	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	12/12/19 14:52	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	12/12/19 14:52	
1,4-Dioxane	40 U	40	13	1	12/12/19 14:52	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	12/12/19 14:52	
2-Hexanone	5.0 U	5.0	0.20	1	12/12/19 14:52	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	12/12/19 14:52	
Acetone	**2.2 BJ**	5.0	2.1	1	12/12/19 14:52	
Benzene	1.0 U	1.0	0.20	1	12/12/19 14:52	
Bromochloromethane	1.0 U	1.0	0.24	1	12/12/19 14:52	
Bromodichloromethane	1.0 U	1.0	0.22	1	12/12/19 14:52	
Bromoform	1.0 U	1.0	0.25	1	12/12/19 14:52	
Bromomethane	1.0 U	1.0	0.70	1	12/12/19 14:52	
Carbon Disulfide	1.0 U	1.0	0.25	1	12/12/19 14:52	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	12/12/19 14:52	
Chlorobenzene	1.0 U	1.0	0.20	1	12/12/19 14:52	
Chloroethane	1.0 U	1.0	0.23	1	12/12/19 14:52	
Chloroform	1.0 U	1.0	0.24	1	12/12/19 14:52	
Chloromethane	1.0 U	1.0	0.28	1	12/12/19 14:52	
Cyclohexane	1.0 U	1.0	0.26	1	12/12/19 14:52	
Dibromochloromethane	1.0 U	1.0	0.20	1	12/12/19 14:52	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	12/12/19 14:52	
Dichloromethane	1.0 U	1.0	0.36	1	12/12/19 14:52	
Ethylbenzene	1.0 U	1.0	0.20	1	12/12/19 14:52	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	12/12/19 14:52	
Methyl Acetate	2.0 U	2.0	0.33	1	12/12/19 14:52	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	12/12/19 14:52	
Methylcyclohexane	1.0 U	1.0	0.20	1	12/12/19 14:52	
Styrene	1.0 U	1.0	0.20	1	12/12/19 14:52	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	12/12/19 14:52	
Toluene	1.0 U	1.0	0.20	1	12/12/19 14:52	

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19
Sample Matrix:	Water	**Date Received:**	12/05/19 17:05
Sample Name:	Trip Blank 2	**Units:**	ug/L
Lab Code:	R1911945-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	12/12/19 14:52	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	12/12/19 14:52	
Vinyl Chloride	1.0 U	1.0	0.20	1	12/12/19 14:52	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	12/12/19 14:52	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	12/12/19 14:52	
m,p-Xylenes	2.0 U	2.0	0.20	1	12/12/19 14:52	
o-Xylene	1.0 U	1.0	0.20	1	12/12/19 14:52	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	12/12/19 14:52	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	12/12/19 14:52	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	12/12/19 14:52	
Dibromofluoromethane	95	89 - 119	12/12/19 14:52	
Toluene-d8	99	87 - 121	12/12/19 14:52	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:10
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB4 1-2	**Units:**	ug/Kg
Lab Code:	R1911945-009	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	3.8 U	3.8	0.16	.67	12/11/19 14:58	
1,1,2,2-Tetrachloroethane	3.8 U	3.8	0.16	.67	12/11/19 14:58	
1,1,2-Trichloroethane	3.8 U	3.8	0.16	.67	12/11/19 14:58	
1,1,2-Trichloro-1,2,2-trifluoroethane	3.8 U	3.8	0.16	.67	12/11/19 14:58	
1,1-Dichloroethane (1,1-DCA)	3.8 U	3.8	0.16	.67	12/11/19 14:58	
1,1-Dichloroethene (1,1-DCE)	3.8 U	3.8	0.23	.67	12/11/19 14:58	
1,2,3-Trichlorobenzene	3.8 U	3.8	0.40	.67	12/11/19 14:58	
1,2,4-Trichlorobenzene	3.8 U	3.8	0.33	.67	12/11/19 14:58	
1,2-Dibromo-3-chloropropane (DBCP)	3.8 U	3.8	0.23	.67	12/11/19 14:58	
1,2-Dibromoethane	3.8 U	3.8	0.16	.67	12/11/19 14:58	
1,2-Dichlorobenzene	3.8 U	3.8	0.16	.67	12/11/19 14:58	
1,2-Dichloroethane	3.8 U	3.8	0.16	.67	12/11/19 14:58	
1,2-Dichloropropane	3.8 U	3.8	0.16	.67	12/11/19 14:58	
1,3-Dichlorobenzene	3.8 U	3.8	0.16	.67	12/11/19 14:58	
1,4-Dichlorobenzene	3.8 U	3.8	0.17	.67	12/11/19 14:58	
1,4-Dioxane	77 U	77	16	.67	12/11/19 14:58	
2-Butanone (MEK)	**13**	3.8	1.6	.67	12/11/19 14:58	
2-Hexanone	3.8 U	3.8	0.28	.67	12/11/19 14:58	
4-Methyl-2-pentanone	3.8 U	3.8	0.18	.67	12/11/19 14:58	
Acetone	**330 E**	3.8	3.7	.67	12/11/19 14:58	
Benzene	**0.29 J**	3.8	0.16	.67	12/11/19 14:58	
Bromochloromethane	3.8 U	3.8	0.16	.67	12/11/19 14:58	
Bromodichloromethane	3.8 U	3.8	0.16	.67	12/11/19 14:58	
Bromoform	3.8 U	3.8	0.39	.67	12/11/19 14:58	
Bromomethane	3.8 U	3.8	1.7	.67	12/11/19 14:58	
Carbon Disulfide	**0.52 J**	3.8	0.23	.67	12/11/19 14:58	
Carbon Tetrachloride	3.8 U	3.8	0.20	.67	12/11/19 14:58	
Chlorobenzene	3.8 U	3.8	0.16	.67	12/11/19 14:58	
Chloroethane	3.8 U	3.8	0.16	.67	12/11/19 14:58	
Chloroform	3.8 U	3.8	0.16	.67	12/11/19 14:58	
Chloromethane	3.8 U	3.8	1.1	.67	12/11/19 14:58	
Cyclohexane	**0.86 J**	3.8	0.20	.67	12/11/19 14:58	
Dibromochloromethane	3.8 U	3.8	0.16	.67	12/11/19 14:58	
Dichlorodifluoromethane (CFC 12)	3.8 U	3.8	0.26	.67	12/11/19 14:58	
Dichloromethane	3.8 U	3.8	2.2	.67	12/11/19 14:58	
Ethylbenzene	**0.30 J**	3.8	0.16	.67	12/11/19 14:58	
Isopropylbenzene (Cumene)	**0.31 J**	3.8	0.16	.67	12/11/19 14:58	
Methyl Acetate	**52**	3.8	0.65	.67	12/11/19 14:58	
Methyl tert-Butyl Ether	**0.77 J**	3.8	0.16	.67	12/11/19 14:58	
Methylcyclohexane	**1.4 J**	3.8	0.24	.67	12/11/19 14:58	
Styrene	3.8 U	3.8	0.16	.67	12/11/19 14:58	
Tetrachloroethene (PCE)	3.8 U	3.8	0.18	.67	12/11/19 14:58	
Toluene	**0.48 J**	3.8	0.16	.67	12/11/19 14:58	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:10
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB4 1-2	**Units:**	ug/Kg
Lab Code:	R1911945-009	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	3.8 U	3.8	0.17	.67	12/11/19 14:58	
Trichlorofluoromethane (CFC 11)	3.8 U	3.8	0.20	.67	12/11/19 14:58	
Vinyl Chloride	3.8 U	3.8	0.36	.67	12/11/19 14:58	
cis-1,2-Dichloroethene	**0.26 J**	3.8	0.16	.67	12/11/19 14:58	
cis-1,3-Dichloropropene	3.8 U	3.8	0.16	.67	12/11/19 14:58	
m,p-Xylenes	**1.6 J**	7.7	0.29	.67	12/11/19 14:58	
o-Xylene	**0.80 J**	3.8	0.16	.67	12/11/19 14:58	
trans-1,2-Dichloroethene	3.8 U	3.8	0.16	.67	12/11/19 14:58	
trans-1,3-Dichloropropene	3.8 U	3.8	0.16	.67	12/11/19 14:58	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	31 - 154	12/11/19 14:58	
Dibromofluoromethane	95	63 - 138	12/11/19 14:58	
Toluene-d8	97	66 - 138	12/11/19 14:58	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
000095-36-3	1,2,4-Trimethylbenzene	11.46	5.2	JN
000934-74-7	Benzene, 1-ethyl-3,5-dimethyl-	12.06	5.8	JN
	unknown	12.49	3.9	J
000527-53-7	Benzene, 1,2,3,5-tetramethyl-	12.73	5.9	JN
	unknown	2.50	5.3	J
	unknown	3.63	3.8	J

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:10
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB4 1-2	**Units:**	ug/Kg
Lab Code:	R1911945-009	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	500	U	500	20	87	12/16/19 16:11	
1,1,2,2-Tetrachloroethane	500	U	500	20	87	12/16/19 16:11	
1,1,2-Trichloroethane	500	U	500	20	87	12/16/19 16:11	
1,1,2-Trichloro-1,2,2-trifluoroethane	500	U	500	20	87	12/16/19 16:11	
1,1-Dichloroethane (1,1-DCA)	500	U	500	20	87	12/16/19 16:11	
1,1-Dichloroethene (1,1-DCE)	500	U	500	29	87	12/16/19 16:11	
1,2,3-Trichlorobenzene	500	U	500	52	87	12/16/19 16:11	
1,2,4-Trichlorobenzene	500	U	500	42	87	12/16/19 16:11	
1,2-Dibromo-3-chloropropane (DBCP)	500	U	500	29	87	12/16/19 16:11	
1,2-Dibromoethane	500	U	500	20	87	12/16/19 16:11	
1,2-Dichlorobenzene	500	U	500	20	87	12/16/19 16:11	
1,2-Dichloroethane	500	U	500	20	87	12/16/19 16:11	
1,2-Dichloropropane	500	U	500	20	87	12/16/19 16:11	
1,3-Dichlorobenzene	500	U	500	20	87	12/16/19 16:11	
1,4-Dichlorobenzene	500	U	500	22	87	12/16/19 16:11	
1,4-Dioxane	10000	U	10000	2000	87	12/16/19 16:11	
2-Butanone (MEK)	500	U	500	200	87	12/16/19 16:11	
2-Hexanone	500	U	500	36	87	12/16/19 16:11	
4-Methyl-2-pentanone	500	U	500	23	87	12/16/19 16:11	
Acetone	**680**	**D**	500	470	87	12/16/19 16:11	
Benzene	500	U	500	20	87	12/16/19 16:11	
Bromochloromethane	500	U	500	20	87	12/16/19 16:11	
Bromodichloromethane	500	U	500	20	87	12/16/19 16:11	
Bromoform	500	U	500	50	87	12/16/19 16:11	
Bromomethane	500	U	500	210	87	12/16/19 16:11	
Carbon Disulfide	500	U	500	29	87	12/16/19 16:11	
Carbon Tetrachloride	500	U	500	26	87	12/16/19 16:11	
Chlorobenzene	500	U	500	20	87	12/16/19 16:11	
Chloroethane	500	U	500	20	87	12/16/19 16:11	
Chloroform	500	U	500	20	87	12/16/19 16:11	
Chloromethane	500	U	500	140	87	12/16/19 16:11	
Cyclohexane	500	U	500	26	87	12/16/19 16:11	
Dibromochloromethane	500	U	500	20	87	12/16/19 16:11	
Dichlorodifluoromethane (CFC 12)	500	U	500	33	87	12/16/19 16:11	
Dichloromethane	500	U	500	280	87	12/16/19 16:11	
Ethylbenzene	500	U	500	20	87	12/16/19 16:11	
Isopropylbenzene (Cumene)	500	U	500	20	87	12/16/19 16:11	
Methyl Acetate	**470**	**DJ**	500	84	87	12/16/19 16:11	
Methyl tert-Butyl Ether	500	U	500	20	87	12/16/19 16:11	
Methylcyclohexane	**48**	**DJ**	500	31	87	12/16/19 16:11	
Styrene	500	U	500	20	87	12/16/19 16:11	
Tetrachloroethene (PCE)	500	U	500	23	87	12/16/19 16:11	
Toluene	**49**	**DJ**	500	20	87	12/16/19 16:11	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:10
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB4 1-2	**Units:**	ug/Kg
Lab Code:	R1911945-009	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	500	U	500	22	87	12/16/19 16:11	
Trichlorofluoromethane (CFC 11)	500	U	500	26	87	12/16/19 16:11	
Vinyl Chloride	500	U	500	46	87	12/16/19 16:11	
cis-1,2-Dichloroethene	500	U	500	20	87	12/16/19 16:11	
cis-1,3-Dichloropropene	500	U	500	20	87	12/16/19 16:11	
m,p-Xylenes	**100**	**DJ**	1000	37	87	12/16/19 16:11	
o-Xylene	**38**	**DJ**	500	20	87	12/16/19 16:11	
trans-1,2-Dichloroethene	500	U	500	20	87	12/16/19 16:11	
trans-1,3-Dichloropropene	500	U	500	20	87	12/16/19 16:11	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	31 - 154	12/16/19 16:11	
Dibromofluoromethane	81	63 - 138	12/16/19 16:11	
Toluene-d8	94	66 - 138	12/16/19 16:11	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	1.42	710	J
000141-78-6	Ethyl Acetate	3.96	650	JN

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:10
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB4 1-2 Dup	**Units:**	ug/Kg
Lab Code:	R1911945-010	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	4.2 U	4.2	0.17	.75	12/11/19 15:21	
1,1,2,2-Tetrachloroethane	4.2 U	4.2	0.17	.75	12/11/19 15:21	
1,1,2-Trichloroethane	4.2 U	4.2	0.17	.75	12/11/19 15:21	
1,1,2-Trichloro-1,2,2-trifluoroethane	4.2 U	4.2	0.17	.75	12/11/19 15:21	
1,1-Dichloroethane (1,1-DCA)	4.2 U	4.2	0.17	.75	12/11/19 15:21	
1,1-Dichloroethene (1,1-DCE)	4.2 U	4.2	0.25	.75	12/11/19 15:21	
1,2,3-Trichlorobenzene	4.2 U	4.2	0.45	.75	12/11/19 15:21	
1,2,4-Trichlorobenzene	4.2 U	4.2	0.36	.75	12/11/19 15:21	
1,2-Dibromo-3-chloropropane (DBCP)	4.2 U	4.2	0.25	.75	12/11/19 15:21	
1,2-Dibromoethane	4.2 U	4.2	0.17	.75	12/11/19 15:21	
1,2-Dichlorobenzene	4.2 U	4.2	0.17	.75	12/11/19 15:21	
1,2-Dichloroethane	4.2 U	4.2	0.17	.75	12/11/19 15:21	
1,2-Dichloropropane	4.2 U	4.2	0.17	.75	12/11/19 15:21	
1,3-Dichlorobenzene	4.2 U	4.2	0.17	.75	12/11/19 15:21	
1,4-Dichlorobenzene	4.2 U	4.2	0.19	.75	12/11/19 15:21	
1,4-Dioxane	85 U	85	17	.75	12/11/19 15:21	
2-Butanone (MEK)	**11**	4.2	1.7	.75	12/11/19 15:21	
2-Hexanone	4.2 U	4.2	0.31	.75	12/11/19 15:21	
4-Methyl-2-pentanone	4.2 U	4.2	0.20	.75	12/11/19 15:21	
Acetone	**71**	4.2	4.0	.75	12/11/19 15:21	
Benzene	4.2 U	4.2	0.17	.75	12/11/19 15:21	
Bromochloromethane	4.2 U	4.2	0.17	.75	12/11/19 15:21	
Bromodichloromethane	4.2 U	4.2	0.17	.75	12/11/19 15:21	
Bromoform	4.2 U	4.2	0.43	.75	12/11/19 15:21	
Bromomethane	4.2 U	4.2	1.8	.75	12/11/19 15:21	
Carbon Disulfide	**0.53 J**	4.2	0.25	.75	12/11/19 15:21	
Carbon Tetrachloride	4.2 U	4.2	0.23	.75	12/11/19 15:21	
Chlorobenzene	4.2 U	4.2	0.17	.75	12/11/19 15:21	
Chloroethane	4.2 U	4.2	0.17	.75	12/11/19 15:21	
Chloroform	4.2 U	4.2	0.17	.75	12/11/19 15:21	
Chloromethane	4.2 U	4.2	1.2	.75	12/11/19 15:21	
Cyclohexane	**0.81 J**	4.2	0.23	.75	12/11/19 15:21	
Dibromochloromethane	4.2 U	4.2	0.17	.75	12/11/19 15:21	
Dichlorodifluoromethane (CFC 12)	4.2 U	4.2	0.28	.75	12/11/19 15:21	
Dichloromethane	4.2 U	4.2	2.4	.75	12/11/19 15:21	
Ethylbenzene	**0.27 J**	4.2	0.17	.75	12/11/19 15:21	
Isopropylbenzene (Cumene)	4.2 U	4.2	0.17	.75	12/11/19 15:21	
Methyl Acetate	**15**	4.2	0.72	.75	12/11/19 15:21	
Methyl tert-Butyl Ether	4.2 U	4.2	0.17	.75	12/11/19 15:21	
Methylcyclohexane	**2.7 J**	4.2	0.27	.75	12/11/19 15:21	
Styrene	4.2 U	4.2	0.17	.75	12/11/19 15:21	
Tetrachloroethene (PCE)	4.2 U	4.2	0.20	.75	12/11/19 15:21	
Toluene	**0.66 J**	4.2	0.17	.75	12/11/19 15:21	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:10
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB4 1-2 Dup	**Units:**	ug/Kg
Lab Code:	R1911945-010	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	4.2 U	4.2	0.19	.75	12/11/19 15:21	
Trichlorofluoromethane (CFC 11)	4.2 U	4.2	0.23	.75	12/11/19 15:21	
Vinyl Chloride	**3.3 J**	4.2	0.40	.75	12/11/19 15:21	
cis-1,2-Dichloroethene	**2.2 J**	4.2	0.17	.75	12/11/19 15:21	
cis-1,3-Dichloropropene	4.2 U	4.2	0.17	.75	12/11/19 15:21	
m,p-Xylenes	**1.0 J**	8.5	0.32	.75	12/11/19 15:21	
o-Xylene	4.2 U	4.2	0.17	.75	12/11/19 15:21	
trans-1,2-Dichloroethene	4.2 U	4.2	0.17	.75	12/11/19 15:21	
trans-1,3-Dichloropropene	4.2 U	4.2	0.17	.75	12/11/19 15:21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	88	31 - 154	12/11/19 15:21	
Dibromofluoromethane	95	63 - 138	12/11/19 15:21	
Toluene-d8	98	66 - 138	12/11/19 15:21	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	1.43	5.3	J
004923-78-8	Cyclohexane, 1-ethyl-2-methyl-, tr	10.19	25	JN
	unknown	10.30	5.0	J
	unknown	10.39	8.4	J
015869-94-0	Octane, 3,6-dimethyl-	10.42	10	JN
	unknown	10.50	14	J
	unknown	10.55	9.0	J
	unknown	10.64	4.3	J
	unknown	10.79	5.2	J
	unknown	10.88	17	J
	unknown	11.02	5.2	J
	unknown	11.06	5.1	J
002847-72-5	Decane, 4-methyl-	11.44	7.9	JN
006876-23-9	Cyclohexane, 1,2-dimethyl-, trans-	8.32	5.8	JN
	unknown	8.96	8.2	J
001678-91-7	Cyclohexane, ethyl-	9.02	6.0	JN
003073-66-3	Cyclohexane, 1,1,3-trimethyl-	9.08	5.0	JN
007667-60-9	Cyclohexane, 1,2,4-trimethyl-, (1.	9.33	14	JN

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:10
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB4 16-18	**Units:**	ug/Kg
Lab Code:	R1911945-011	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	3.4 U	3.4	0.14	.59	12/11/19 15:44	
1,1,2,2-Tetrachloroethane	3.4 U	3.4	0.14	.59	12/11/19 15:44	
1,1,2-Trichloroethane	3.4 U	3.4	0.14	.59	12/11/19 15:44	
1,1,2-Trichloro-1,2,2-trifluoroethane	3.4 U	3.4	0.14	.59	12/11/19 15:44	
1,1-Dichloroethane (1,1-DCA)	3.4 U	3.4	0.14	.59	12/11/19 15:44	
1,1-Dichloroethene (1,1-DCE)	3.4 U	3.4	0.20	.59	12/11/19 15:44	
1,2,3-Trichlorobenzene	3.4 U	3.4	0.36	.59	12/11/19 15:44	
1,2,4-Trichlorobenzene	3.4 U	3.4	0.29	.59	12/11/19 15:44	
1,2-Dibromo-3-chloropropane (DBCP)	3.4 U	3.4	0.20	.59	12/11/19 15:44	
1,2-Dibromoethane	3.4 U	3.4	0.14	.59	12/11/19 15:44	
1,2-Dichlorobenzene	3.4 U	3.4	0.14	.59	12/11/19 15:44	
1,2-Dichloroethane	3.4 U	3.4	0.14	.59	12/11/19 15:44	
1,2-Dichloropropane	3.4 U	3.4	0.14	.59	12/11/19 15:44	
1,3-Dichlorobenzene	3.4 U	3.4	0.14	.59	12/11/19 15:44	
1,4-Dichlorobenzene	3.4 U	3.4	0.16	.59	12/11/19 15:44	
1,4-Dioxane	69 U	69	14	.59	12/11/19 15:44	
2-Butanone (MEK)	3.4 U	3.4	1.4	.59	12/11/19 15:44	
2-Hexanone	3.4 U	3.4	0.25	.59	12/11/19 15:44	
4-Methyl-2-pentanone	3.4 U	3.4	0.16	.59	12/11/19 15:44	
Acetone	**15**	3.4	3.3	.59	12/11/19 15:44	
Benzene	3.4 U	3.4	0.14	.59	12/11/19 15:44	
Bromochloromethane	3.4 U	3.4	0.14	.59	12/11/19 15:44	
Bromodichloromethane	3.4 U	3.4	0.14	.59	12/11/19 15:44	
Bromoform	3.4 U	3.4	0.35	.59	12/11/19 15:44	
Bromomethane	3.4 U	3.4	1.5	.59	12/11/19 15:44	
Carbon Disulfide	**0.53 J**	3.4	0.20	.59	12/11/19 15:44	
Carbon Tetrachloride	3.4 U	3.4	0.18	.59	12/11/19 15:44	
Chlorobenzene	3.4 U	3.4	0.14	.59	12/11/19 15:44	
Chloroethane	3.4 U	3.4	0.14	.59	12/11/19 15:44	
Chloroform	3.4 U	3.4	0.14	.59	12/11/19 15:44	
Chloromethane	3.4 U	3.4	0.97	.59	12/11/19 15:44	
Cyclohexane	3.4 U	3.4	0.18	.59	12/11/19 15:44	
Dibromochloromethane	3.4 U	3.4	0.14	.59	12/11/19 15:44	
Dichlorodifluoromethane (CFC 12)	3.4 U	3.4	0.23	.59	12/11/19 15:44	
Dichloromethane	3.4 U	3.4	2.0	.59	12/11/19 15:44	
Ethylbenzene	3.4 U	3.4	0.14	.59	12/11/19 15:44	
Isopropylbenzene (Cumene)	3.4 U	3.4	0.14	.59	12/11/19 15:44	
Methyl Acetate	**8.4**	3.4	0.58	.59	12/11/19 15:44	
Methyl tert-Butyl Ether	3.4 U	3.4	0.14	.59	12/11/19 15:44	
Methylcyclohexane	3.4 U	3.4	0.22	.59	12/11/19 15:44	
Styrene	3.4 U	3.4	0.14	.59	12/11/19 15:44	
Tetrachloroethene (PCE)	3.4 U	3.4	0.16	.59	12/11/19 15:44	
Toluene	**0.30 J**	3.4	0.14	.59	12/11/19 15:44	

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:10
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB4 16-18	**Units:**	ug/Kg
Lab Code:	R1911945-011	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	3.4 U	3.4	0.16	.59	12/11/19 15:44	
Trichlorofluoromethane (CFC 11)	3.4 U	3.4	0.18	.59	12/11/19 15:44	
Vinyl Chloride	**91**	3.4	0.32	.59	12/11/19 15:44	
cis-1,2-Dichloroethene	**50**	3.4	0.14	.59	12/11/19 15:44	
cis-1,3-Dichloropropene	3.4 U	3.4	0.14	.59	12/11/19 15:44	
m,p-Xylenes	6.9 U	6.9	0.26	.59	12/11/19 15:44	
o-Xylene	3.4 U	3.4	0.14	.59	12/11/19 15:44	
trans-1,2-Dichloroethene	3.4 U	3.4	0.14	.59	12/11/19 15:44	
trans-1,3-Dichloropropene	3.4 U	3.4	0.14	.59	12/11/19 15:44	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	87	31 - 154	12/11/19 15:44	
Dibromofluoromethane	97	63 - 138	12/11/19 15:44	
Toluene-d8	99	66 - 138	12/11/19 15:44	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:35
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB5 3-5	**Units:**	ug/Kg
Lab Code:	R1911945-012	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	4.1 U	4.1	0.17	.7	12/11/19 16:07	
1,1,2,2-Tetrachloroethane	4.1 U	4.1	0.17	.7	12/11/19 16:07	
1,1,2-Trichloroethane	4.1 U	4.1	0.17	.7	12/11/19 16:07	
1,1,2-Trichloro-1,2,2-trifluoroethane	4.1 U	4.1	0.17	.7	12/11/19 16:07	
1,1-Dichloroethane (1,1-DCA)	4.1 U	4.1	0.17	.7	12/11/19 16:07	
1,1-Dichloroethene (1,1-DCE)	4.1 U	4.1	0.24	.7	12/11/19 16:07	
1,2,3-Trichlorobenzene	4.1 U	4.1	0.44	.7	12/11/19 16:07	
1,2,4-Trichlorobenzene	4.1 U	4.1	0.35	.7	12/11/19 16:07	
1,2-Dibromo-3-chloropropane (DBCP)	4.1 U	4.1	0.24	.7	12/11/19 16:07	
1,2-Dibromoethane	4.1 U	4.1	0.17	.7	12/11/19 16:07	
1,2-Dichlorobenzene	4.1 U	4.1	0.17	.7	12/11/19 16:07	
1,2-Dichloroethane	4.1 U	4.1	0.17	.7	12/11/19 16:07	
1,2-Dichloropropane	4.1 U	4.1	0.17	.7	12/11/19 16:07	
1,3-Dichlorobenzene	4.1 U	4.1	0.17	.7	12/11/19 16:07	
1,4-Dichlorobenzene	4.1 U	4.1	0.19	.7	12/11/19 16:07	
1,4-Dioxane	83 U	83	17	.7	12/11/19 16:07	
2-Butanone (MEK)	**12**	4.1	1.7	.7	12/11/19 16:07	
2-Hexanone	4.1 U	4.1	0.30	.7	12/11/19 16:07	
4-Methyl-2-pentanone	4.1 U	4.1	0.20	.7	12/11/19 16:07	
Acetone	**85**	4.1	3.9	.7	12/11/19 16:07	
Benzene	**0.64 J**	4.1	0.17	.7	12/11/19 16:07	
Bromochloromethane	4.1 U	4.1	0.17	.7	12/11/19 16:07	
Bromodichloromethane	4.1 U	4.1	0.17	.7	12/11/19 16:07	
Bromoform	4.1 U	4.1	0.42	.7	12/11/19 16:07	
Bromomethane	4.1 U	4.1	1.8	.7	12/11/19 16:07	
Carbon Disulfide	**0.77 J**	4.1	0.24	.7	12/11/19 16:07	
Carbon Tetrachloride	4.1 U	4.1	0.22	.7	12/11/19 16:07	
Chlorobenzene	4.1 U	4.1	0.17	.7	12/11/19 16:07	
Chloroethane	4.1 U	4.1	0.17	.7	12/11/19 16:07	
Chloroform	4.1 U	4.1	0.17	.7	12/11/19 16:07	
Chloromethane	4.1 U	4.1	1.2	.7	12/11/19 16:07	
Cyclohexane	**1.0 J**	4.1	0.22	.7	12/11/19 16:07	
Dibromochloromethane	4.1 U	4.1	0.17	.7	12/11/19 16:07	
Dichlorodifluoromethane (CFC 12)	4.1 U	4.1	0.28	.7	12/11/19 16:07	
Dichloromethane	4.1 U	4.1	2.4	.7	12/11/19 16:07	
Ethylbenzene	4.1 U	4.1	0.17	.7	12/11/19 16:07	
Isopropylbenzene (Cumene)	4.1 U	4.1	0.17	.7	12/11/19 16:07	
Methyl Acetate	**14**	4.1	0.70	.7	12/11/19 16:07	
Methyl tert-Butyl Ether	4.1 U	4.1	0.17	.7	12/11/19 16:07	
Methylcyclohexane	**1.5 J**	4.1	0.26	.7	12/11/19 16:07	
Styrene	4.1 U	4.1	0.17	.7	12/11/19 16:07	
Tetrachloroethene (PCE)	4.1 U	4.1	0.20	.7	12/11/19 16:07	
Toluene	**0.41 J**	4.1	0.17	.7	12/11/19 16:07	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:35
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB5 3-5	**Units:**	ug/Kg
Lab Code:	R1911945-012	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	4.1 U	4.1	0.19	.7	12/11/19 16:07	
Trichlorofluoromethane (CFC 11)	4.1 U	4.1	0.22	.7	12/11/19 16:07	
Vinyl Chloride	4.1 U	4.1	0.39	.7	12/11/19 16:07	
cis-1,2-Dichloroethene	**0.20 J**	4.1	0.17	.7	12/11/19 16:07	
cis-1,3-Dichloropropene	4.1 U	4.1	0.17	.7	12/11/19 16:07	
m,p-Xylenes	**1.6 J**	8.3	0.31	.7	12/11/19 16:07	
o-Xylene	**0.62 J**	4.1	0.17	.7	12/11/19 16:07	
trans-1,2-Dichloroethene	4.1 U	4.1	0.17	.7	12/11/19 16:07	
trans-1,3-Dichloropropene	4.1 U	4.1	0.17	.7	12/11/19 16:07	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	80	31 - 154	12/11/19 16:07	
Dibromofluoromethane	95	63 - 138	12/11/19 16:07	
Toluene-d8	96	66 - 138	12/11/19 16:07	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	11.47	4.1	J

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:42
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB5 7-8	**Units:**	ug/Kg
Lab Code:	R1911945-013	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	3.8 U	3.8	0.16	.64	12/11/19 16:30	
1,1,2,2-Tetrachloroethane	3.8 U	3.8	0.16	.64	12/11/19 16:30	
1,1,2-Trichloroethane	3.8 U	3.8	0.16	.64	12/11/19 16:30	
1,1,2-Trichloro-1,2,2-trifluoroethane	3.8 U	3.8	0.16	.64	12/11/19 16:30	
1,1-Dichloroethane (1,1-DCA)	3.8 U	3.8	0.16	.64	12/11/19 16:30	
1,1-Dichloroethene (1,1-DCE)	3.8 U	3.8	0.22	.64	12/11/19 16:30	
1,2,3-Trichlorobenzene	3.8 U	3.8	0.40	.64	12/11/19 16:30	
1,2,4-Trichlorobenzene	3.8 U	3.8	0.32	.64	12/11/19 16:30	
1,2-Dibromo-3-chloropropane (DBCP)	3.8 U	3.8	0.22	.64	12/11/19 16:30	
1,2-Dibromoethane	3.8 U	3.8	0.16	.64	12/11/19 16:30	
1,2-Dichlorobenzene	**5.1**	3.8	0.16	.64	12/11/19 16:30	
1,2-Dichloroethane	3.8 U	3.8	0.16	.64	12/11/19 16:30	
1,2-Dichloropropane	3.8 U	3.8	0.16	.64	12/11/19 16:30	
1,3-Dichlorobenzene	3.8 U	3.8	0.16	.64	12/11/19 16:30	
1,4-Dichlorobenzene	**0.39 J**	3.8	0.17	.64	12/11/19 16:30	
1,4-Dioxane	76 U	76	16	.64	12/11/19 16:30	
2-Butanone (MEK)	**6.1**	3.8	1.6	.64	12/11/19 16:30	
2-Hexanone	3.8 U	3.8	0.28	.64	12/11/19 16:30	
4-Methyl-2-pentanone	3.8 U	3.8	0.18	.64	12/11/19 16:30	
Acetone	**230 E**	3.8	3.6	.64	12/11/19 16:30	
Benzene	**5.4**	3.8	0.16	.64	12/11/19 16:30	
Bromochloromethane	3.8 U	3.8	0.16	.64	12/11/19 16:30	
Bromodichloromethane	3.8 U	3.8	0.16	.64	12/11/19 16:30	
Bromoform	3.8 U	3.8	0.38	.64	12/11/19 16:30	
Bromomethane	3.8 U	3.8	1.6	.64	12/11/19 16:30	
Carbon Disulfide	**0.41 J**	3.8	0.22	.64	12/11/19 16:30	
Carbon Tetrachloride	3.8 U	3.8	0.20	.64	12/11/19 16:30	
Chlorobenzene	**4.4**	3.8	0.16	.64	12/11/19 16:30	
Chloroethane	3.8 U	3.8	0.16	.64	12/11/19 16:30	
Chloroform	3.8 U	3.8	0.16	.64	12/11/19 16:30	
Chloromethane	3.8 U	3.8	1.1	.64	12/11/19 16:30	
Cyclohexane	**0.75 J**	3.8	0.20	.64	12/11/19 16:30	
Dibromochloromethane	3.8 U	3.8	0.16	.64	12/11/19 16:30	
Dichlorodifluoromethane (CFC 12)	3.8 U	3.8	0.25	.64	12/11/19 16:30	
Dichloromethane	3.8 U	3.8	2.2	.64	12/11/19 16:30	
Ethylbenzene	**1.6 J**	3.8	0.16	.64	12/11/19 16:30	
Isopropylbenzene (Cumene)	**6.6**	3.8	0.16	.64	12/11/19 16:30	
Methyl Acetate	**110**	3.8	0.64	.64	12/11/19 16:30	
Methyl tert-Butyl Ether	**0.48 J**	3.8	0.16	.64	12/11/19 16:30	
Methylcyclohexane	**1.9 J**	3.8	0.24	.64	12/11/19 16:30	
Styrene	3.8 U	3.8	0.16	.64	12/11/19 16:30	
Tetrachloroethene (PCE)	3.8 U	3.8	0.18	.64	12/11/19 16:30	
Toluene	**0.50 J**	3.8	0.16	.64	12/11/19 16:30	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:42
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB5 7-8	**Units:**	ug/Kg
Lab Code:	R1911945-013	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	3.8 U	3.8	0.17	.64	12/11/19 16:30	
Trichlorofluoromethane (CFC 11)	3.8 U	3.8	0.20	.64	12/11/19 16:30	
Vinyl Chloride	3.8 U	3.8	0.35	.64	12/11/19 16:30	
cis-1,2-Dichloroethene	3.8 U	3.8	0.16	.64	12/11/19 16:30	
cis-1,3-Dichloropropene	3.8 U	3.8	0.16	.64	12/11/19 16:30	
m,p-Xylenes	**73**	7.6	0.28	.64	12/11/19 16:30	
o-Xylene	**0.55 J**	3.8	0.16	.64	12/11/19 16:30	
trans-1,2-Dichloroethene	3.8 U	3.8	0.16	.64	12/11/19 16:30	
trans-1,3-Dichloropropene	3.8 U	3.8	0.16	.64	12/11/19 16:30	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	31 - 154	12/11/19 16:30	
Dibromofluoromethane	93	63 - 138	12/11/19 16:30	
Toluene-d8	99	66 - 138	12/11/19 16:30	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
000109-66-0	Pentane	1.69	8.1	JN
003728-55-0	1-Ethyl-3-methylcyclohexane (c,t)	10.19	12	JN
001678-92-8	Cyclohexane, propyl-	10.48	14	JN
	unknown	10.88	14	J
	unknown	10.98	19	J
000622-96-8	Benzene, 1-ethyl-4-methyl-	11.06	15	JN
000108-67-8	Benzene, 1,3,5-trimethyl-	11.14	17	JN
000611-14-3	Benzene, 1-ethyl-2-methyl-	11.31	13	JN
000095-63-6	Benzene, 1,2,4-trimethyl-	11.46	75	JN
000526-73-8	Benzene, 1,2,3-trimethyl-	11.81	13	JN
000496-11-7	Indane	11.97	15	JN
000933-98-2	Benzene, 1-ethyl-2,3-dimethyl-	12.28	12	JN
000099-87-6	Benzene, 1-methyl-4-(1-methylethyl	12.31	9.0	JN
000933-98-2	Benzene, 1-ethyl-2,3-dimethyl-	12.37	16	JN
000767-58-8	Indan, 1-methyl-	12.45	8.2	JN
000095-93-2	Benzene, 1,2,4,5-tetramethyl-	12.69	20	JN
000527-53-7	Benzene, 1,2,3,5-tetramethyl-	12.73	29	JN
	unknown	13.06	32	J
	unknown	2.42	11	J
	unknown	2.55	14	J

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:42
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB5 7-8	**Units:**	ug/Kg
Lab Code:	R1911945-013	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	350 U	350	15	59.5	12/16/19 16:34	
1,1,2,2-Tetrachloroethane	350 U	350	15	59.5	12/16/19 16:34	
1,1,2-Trichloroethane	350 U	350	15	59.5	12/16/19 16:34	
1,1,2-Trichloro-1,2,2-trifluoroethane	350 U	350	15	59.5	12/16/19 16:34	
1,1-Dichloroethane (1,1-DCA)	350 U	350	15	59.5	12/16/19 16:34	
1,1-Dichloroethene (1,1-DCE)	350 U	350	21	59.5	12/16/19 16:34	
1,2,3-Trichlorobenzene	350 U	350	37	59.5	12/16/19 16:34	
1,2,4-Trichlorobenzene	350 U	350	30	59.5	12/16/19 16:34	
1,2-Dibromo-3-chloropropane (DBCP)	350 U	350	21	59.5	12/16/19 16:34	
1,2-Dibromoethane	350 U	350	15	59.5	12/16/19 16:34	
1,2-Dichlorobenzene	**15 J**	350	15	59.5	12/16/19 16:34	
1,2-Dichloroethane	350 U	350	15	59.5	12/16/19 16:34	
1,2-Dichloropropane	350 U	350	15	59.5	12/16/19 16:34	
1,3-Dichlorobenzene	350 U	350	15	59.5	12/16/19 16:34	
1,4-Dichlorobenzene	350 U	350	16	59.5	12/16/19 16:34	
1,4-Dioxane	7000 U	7000	1500	59.5	12/16/19 16:34	
2-Butanone (MEK)	350 U	350	150	59.5	12/16/19 16:34	
2-Hexanone	350 U	350	26	59.5	12/16/19 16:34	
4-Methyl-2-pentanone	350 U	350	17	59.5	12/16/19 16:34	
Acetone	**620 D**	350	340	59.5	12/16/19 16:34	
Benzene	350 U	350	15	59.5	12/16/19 16:34	
Bromochloromethane	350 U	350	15	59.5	12/16/19 16:34	
Bromodichloromethane	350 U	350	15	59.5	12/16/19 16:34	
Bromoform	350 U	350	36	59.5	12/16/19 16:34	
Bromomethane	350 U	350	150	59.5	12/16/19 16:34	
Carbon Disulfide	350 U	350	21	59.5	12/16/19 16:34	
Carbon Tetrachloride	350 U	350	19	59.5	12/16/19 16:34	
Chlorobenzene	350 U	350	15	59.5	12/16/19 16:34	
Chloroethane	350 U	350	15	59.5	12/16/19 16:34	
Chloroform	350 U	350	15	59.5	12/16/19 16:34	
Chloromethane	350 U	350	99	59.5	12/16/19 16:34	
Cyclohexane	350 U	350	19	59.5	12/16/19 16:34	
Dibromochloromethane	350 U	350	15	59.5	12/16/19 16:34	
Dichlorodifluoromethane (CFC 12)	350 U	350	24	59.5	12/16/19 16:34	
Dichloromethane	350 U	350	200	59.5	12/16/19 16:34	
Ethylbenzene	**23 DJ**	350	15	59.5	12/16/19 16:34	
Isopropylbenzene (Cumene)	350 U	350	15	59.5	12/16/19 16:34	
Methyl Acetate	**370 D**	350	60	59.5	12/16/19 16:34	
Methyl tert-Butyl Ether	350 U	350	15	59.5	12/16/19 16:34	
Methylcyclohexane	350 U	350	22	59.5	12/16/19 16:34	
Styrene	350 U	350	15	59.5	12/16/19 16:34	
Tetrachloroethene (PCE)	350 U	350	17	59.5	12/16/19 16:34	
Toluene	350 U	350	15	59.5	12/16/19 16:34	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:42
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB5 7-8	**Units:**	ug/Kg
Lab Code:	R1911945-013	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	350 U	350	16	59.5	12/16/19 16:34	
Trichlorofluoromethane (CFC 11)	350 U	350	19	59.5	12/16/19 16:34	
Vinyl Chloride	350 U	350	33	59.5	12/16/19 16:34	
cis-1,2-Dichloroethene	350 U	350	15	59.5	12/16/19 16:34	
cis-1,3-Dichloropropene	350 U	350	15	59.5	12/16/19 16:34	
m,p-Xylenes	**310 DJ**	700	27	59.5	12/16/19 16:34	
o-Xylene	350 U	350	15	59.5	12/16/19 16:34	
trans-1,2-Dichloroethene	350 U	350	15	59.5	12/16/19 16:34	
trans-1,3-Dichloropropene	350 U	350	15	59.5	12/16/19 16:34	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	87	31 - 154	12/16/19 16:34	
Dibromofluoromethane	81	63 - 138	12/16/19 16:34	
Toluene-d8	95	66 - 138	12/16/19 16:34	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
000107-83-5	Pentane, 2-methyl-	2.40	360	JN
000141-78-6	Ethyl Acetate	3.96	740	JN

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:52
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB5 12-14	**Units:**	ug/Kg
Lab Code:	R1911945-014	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	3.7 U	3.7	0.15	.66	12/11/19 16:53	
1,1,2,2-Tetrachloroethane	3.7 U	3.7	0.15	.66	12/11/19 16:53	
1,1,2-Trichloroethane	3.7 U	3.7	0.15	.66	12/11/19 16:53	
1,1,2-Trichloro-1,2,2-trifluoroethane	3.7 U	3.7	0.15	.66	12/11/19 16:53	
1,1-Dichloroethane (1,1-DCA)	3.7 U	3.7	0.15	.66	12/11/19 16:53	
1,1-Dichloroethene (1,1-DCE)	3.7 U	3.7	0.22	.66	12/11/19 16:53	
1,2,3-Trichlorobenzene	3.7 U	3.7	0.39	.66	12/11/19 16:53	
1,2,4-Trichlorobenzene	3.7 U	3.7	0.31	.66	12/11/19 16:53	
1,2-Dibromo-3-chloropropane (DBCP)	3.7 U	3.7	0.22	.66	12/11/19 16:53	
1,2-Dibromoethane	3.7 U	3.7	0.15	.66	12/11/19 16:53	
1,2-Dichlorobenzene	3.7 U	3.7	0.15	.66	12/11/19 16:53	
1,2-Dichloroethane	3.7 U	3.7	0.15	.66	12/11/19 16:53	
1,2-Dichloropropane	3.7 U	3.7	0.15	.66	12/11/19 16:53	
1,3-Dichlorobenzene	3.7 U	3.7	0.15	.66	12/11/19 16:53	
1,4-Dichlorobenzene	3.7 U	3.7	0.17	.66	12/11/19 16:53	
1,4-Dioxane	74 U	74	15	.66	12/11/19 16:53	
2-Butanone (MEK)	3.7 U	3.7	1.5	.66	12/11/19 16:53	
2-Hexanone	3.7 U	3.7	0.27	.66	12/11/19 16:53	
4-Methyl-2-pentanone	3.7 U	3.7	0.17	.66	12/11/19 16:53	
Acetone	**15**	3.7	3.5	.66	12/11/19 16:53	
Benzene	3.7 U	3.7	0.15	.66	12/11/19 16:53	
Bromochloromethane	3.7 U	3.7	0.15	.66	12/11/19 16:53	
Bromodichloromethane	3.7 U	3.7	0.15	.66	12/11/19 16:53	
Bromoform	3.7 U	3.7	0.37	.66	12/11/19 16:53	
Bromomethane	3.7 U	3.7	1.6	.66	12/11/19 16:53	
Carbon Disulfide	3.7 U	3.7	0.22	.66	12/11/19 16:53	
Carbon Tetrachloride	3.7 U	3.7	0.20	.66	12/11/19 16:53	
Chlorobenzene	3.7 U	3.7	0.15	.66	12/11/19 16:53	
Chloroethane	3.7 U	3.7	0.15	.66	12/11/19 16:53	
Chloroform	3.7 U	3.7	0.15	.66	12/11/19 16:53	
Chloromethane	3.7 U	3.7	1.1	.66	12/11/19 16:53	
Cyclohexane	3.7 U	3.7	0.20	.66	12/11/19 16:53	
Dibromochloromethane	3.7 U	3.7	0.15	.66	12/11/19 16:53	
Dichlorodifluoromethane (CFC 12)	3.7 U	3.7	0.25	.66	12/11/19 16:53	
Dichloromethane	3.7 U	3.7	2.1	.66	12/11/19 16:53	
Ethylbenzene	**0.59 J**	3.7	0.15	.66	12/11/19 16:53	
Isopropylbenzene (Cumene)	3.7 U	3.7	0.15	.66	12/11/19 16:53	
Methyl Acetate	**11**	3.7	0.62	.66	12/11/19 16:53	
Methyl tert-Butyl Ether	3.7 U	3.7	0.15	.66	12/11/19 16:53	
Methylcyclohexane	3.7 U	3.7	0.23	.66	12/11/19 16:53	
Styrene	3.7 U	3.7	0.15	.66	12/11/19 16:53	
Tetrachloroethene (PCE)	3.7 U	3.7	0.17	.66	12/11/19 16:53	
Toluene	**0.67 J**	3.7	0.15	.66	12/11/19 16:53	

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:52
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB5 12-14	**Units:**	ug/Kg
Lab Code:	R1911945-014	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	3.7 U	3.7	0.17	.66	12/11/19 16:53	
Trichlorofluoromethane (CFC 11)	3.7 U	3.7	0.20	.66	12/11/19 16:53	
Vinyl Chloride	3.7 U	3.7	0.34	.66	12/11/19 16:53	
cis-1,2-Dichloroethene	3.7 U	3.7	0.15	.66	12/11/19 16:53	
cis-1,3-Dichloropropene	3.7 U	3.7	0.15	.66	12/11/19 16:53	
m,p-Xylenes	**3.5 J**	7.4	0.28	.66	12/11/19 16:53	
o-Xylene	**0.18 J**	3.7	0.15	.66	12/11/19 16:53	
trans-1,2-Dichloroethene	3.7 U	3.7	0.15	.66	12/11/19 16:53	
trans-1,3-Dichloropropene	3.7 U	3.7	0.15	.66	12/11/19 16:53	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	31 - 154	12/11/19 16:53	
Dibromofluoromethane	94	63 - 138	12/11/19 16:53	
Toluene-d8	97	66 - 138	12/11/19 16:53	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
000095-63-6	Benzene, 1,2,4-trimethyl-	11.46	6.1	JN
	unknown	11.66	3.8	J
001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	12.06	3.9	JN
	unknown	12.56	4.2	J

Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 10:40
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB2 1-2	**Units:**	ug/Kg
Lab Code:	R1911945-001	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	380	U	380	91	1	12/17/19 20:04	12/10/19	
2,3,4,6-Tetrachlorophenol	380	U	380	81	1	12/17/19 20:04	12/10/19	
2,4,5-Trichlorophenol	380	U	380	330	1	12/17/19 20:04	12/10/19	
2,4,6-Trichlorophenol	380	U	380	68	1	12/17/19 20:04	12/10/19	
2,4-Dichlorophenol	380	U	380	82	1	12/17/19 20:04	12/10/19	
2,4-Dimethylphenol	380	U	380	84	1	12/17/19 20:04	12/10/19	
2,4-Dinitrophenol	2000	U	2000	140	1	12/17/19 20:04	12/10/19	
2,4-Dinitrotoluene	380	U	380	160	1	12/17/19 20:04	12/10/19	
2,6-Dinitrotoluene	380	U	380	120	1	12/17/19 20:04	12/10/19	
2-Chloronaphthalene	380	U	380	92	1	12/17/19 20:04	12/10/19	
2-Chlorophenol	380	U	380	94	1	12/17/19 20:04	12/10/19	
2-Methylnaphthalene	380	U	380	84	1	12/17/19 20:04	12/10/19	
2-Methylphenol	380	U	380	83	1	12/17/19 20:04	12/10/19	
2-Nitroaniline	2000	U	2000	120	1	12/17/19 20:04	12/10/19	
2-Nitrophenol	380	U	380	120	1	12/17/19 20:04	12/10/19	
3,3'-Dichlorobenzidine	380	U	380	81	1	12/17/19 20:04	12/10/19	
3- and 4-Methylphenol Coelution	380	U	380	74	1	12/17/19 20:04	12/10/19	
3-Nitroaniline	2000	U	2000	82	1	12/17/19 20:04	12/10/19	
4,6-Dinitro-2-methylphenol	2000	U	2000	170	1	12/17/19 20:04	12/10/19	
4-Bromophenyl Phenyl Ether	380	U	380	140	1	12/17/19 20:04	12/10/19	
4-Chloro-3-methylphenol	380	U	380	84	1	12/17/19 20:04	12/10/19	
4-Chloroaniline	380	U	380	91	1	12/17/19 20:04	12/10/19	
4-Chlorophenyl Phenyl Ether	380	U	380	92	1	12/17/19 20:04	12/10/19	
4-Nitroaniline	2000	U	2000	82	1	12/17/19 20:04	12/10/19	
4-Nitrophenol	2000	U	2000	130	1	12/17/19 20:04	12/10/19	
Acenaphthene	380	U	380	86	1	12/17/19 20:04	12/10/19	
Acenaphthylene	380	U	380	110	1	12/17/19 20:04	12/10/19	
Acetophenone	380	U	380	87	1	12/17/19 20:04	12/10/19	
Anthracene	380	U	380	110	1	12/17/19 20:04	12/10/19	
Atrazine	380	U	380	160	1	12/17/19 20:04	12/10/19	
Benz(a)anthracene	380	U	380	120	1	12/17/19 20:04	12/10/19	
Benzaldehyde	2000	U	2000	76	1	12/17/19 20:04	12/10/19	
Benzo(a)pyrene	380	U	380	140	1	12/17/19 20:04	12/10/19	
Benzo(b)fluoranthene	**140**	**J**	380	130	1	12/17/19 20:04	12/10/19	
Benzo(g,h,i)perylene	380	U	380	110	1	12/17/19 20:04	12/10/19	
Benzo(k)fluoranthene	380	U	380	140	1	12/17/19 20:04	12/10/19	
Biphenyl	380	U	380	94	1	12/17/19 20:04	12/10/19	
2,2'-Oxybis(1-chloropropane)	380	U	380	160	1	12/17/19 20:04	12/10/19	
Bis(2-chloroethoxy)methane	380	U	380	110	1	12/17/19 20:04	12/10/19	
Bis(2-chloroethyl) Ether	380	U	380	100	1	12/17/19 20:04	12/10/19	
Bis(2-ethylhexyl) Phthalate	**1100**		580	110	1	12/17/19 20:04	12/10/19	
Butyl Benzyl Phthalate	380	U	380	96	1	12/17/19 20:04	12/10/19	
Caprolactam	380	U	380	100	1	12/17/19 20:04	12/10/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 10:40
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB2 1-2	**Units:**	ug/Kg
Lab Code:	R1911945-001	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	380	U	380	120	1	12/17/19 20:04	12/10/19	
Chrysene	380	U	380	140	1	12/17/19 20:04	12/10/19	
Di-n-butyl Phthalate	380	U	380	120	1	12/17/19 20:04	12/10/19	
Di-n-octyl Phthalate	380	U	380	120	1	12/17/19 20:04	12/10/19	
Dibenz(a,h)anthracene	380	U	380	120	1	12/17/19 20:04	12/10/19	
Dibenzofuran	380	U	380	76	1	12/17/19 20:04	12/10/19	
Diethyl Phthalate	380	U	380	82	1	12/17/19 20:04	12/10/19	
Dimethyl Phthalate	380	U	380	86	1	12/17/19 20:04	12/10/19	
Fluoranthene	380	U	380	140	1	12/17/19 20:04	12/10/19	
Fluorene	380	U	380	89	1	12/17/19 20:04	12/10/19	
Hexachlorobenzene	380	U	380	120	1	12/17/19 20:04	12/10/19	
Hexachlorobutadiene	380	U	380	93	1	12/17/19 20:04	12/10/19	
Hexachlorocyclopentadiene	380	U	380	84	1	12/17/19 20:04	12/10/19	
Hexachloroethane	380	U	380	99	1	12/17/19 20:04	12/10/19	
Indeno(1,2,3-cd)pyrene	380	U	380	130	1	12/17/19 20:04	12/10/19	
Isophorone	380	U	380	110	1	12/17/19 20:04	12/10/19	
N-Nitrosodi-n-propylamine	380	U	380	110	1	12/17/19 20:04	12/10/19	
N-Nitrosodiphenylamine	380	U	380	260	1	12/17/19 20:04	12/10/19	
Naphthalene	380	U	380	99	1	12/17/19 20:04	12/10/19	
Nitrobenzene	380	U	380	99	1	12/17/19 20:04	12/10/19	
Pentachlorophenol (PCP)	2000	U	2000	130	1	12/17/19 20:04	12/10/19	
Phenanthrene	380	U	380	120	1	12/17/19 20:04	12/10/19	
Phenol	380	U	380	91	1	12/17/19 20:04	12/10/19	
Pyrene	380	U	380	160	1	12/17/19 20:04	12/10/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	66	10 - 109	12/17/19 20:04	
2-Fluorobiphenyl	52	10 - 102	12/17/19 20:04	
2-Fluorophenol	49	10 - 88	12/17/19 20:04	
Nitrobenzene-d5	53	10 - 95	12/17/19 20:04	
Phenol-d6	51	10 - 145	12/17/19 20:04	
Terphenyl-d14	69	10 - 106	12/17/19 20:04	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
006566-19-4	10,18-Bisnorabieta-5,7,9(10),11,13	10.13	4000	JN
000080-05-7	Phenol, 4,4'-(1-methylethylidene)b	10.39	1500	JN
	unknown	3.18	2700	J
	unknown	4.15	270	J
000095-63-6	Benzene, 1,2,4-trimethyl-	4.38	710	JN
000108-67-8	Benzene, 1,3,5-trimethyl-	4.59	290	JN

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 10:40
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB2 1-2	**Units:**	ug/Kg
Lab Code:	R1911945-001	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	4.77	190	J
	unknown	6.10	300	J
000083-33-0	1H-Inden-1-one, 2,3-dihydro-	6.26	210	JN
000085-44-9	Phthalic anhydride	6.44	390	JN
	unknown	8.33	240	J
	unknown	8.38	300	J
	unknown	8.42	590	J
	unknown	8.45	390	J
	unknown	8.47	250	J
	unknown	8.51	340	J
	unknown	8.56	520	J
	unknown	8.60	340	J
	unknown	8.64	200	J
	unknown	9.52	250	J

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 10:50
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB2 4-6	**Units:**	ug/Kg
Lab Code:	R1911945-002	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	1800 U	1800	440	1	12/17/19 20:32	12/10/19	
2,3,4,6-Tetrachlorophenol	1800 U	1800	390	1	12/17/19 20:32	12/10/19	
2,4,5-Trichlorophenol	1800 U	1800	1600	1	12/17/19 20:32	12/10/19	
2,4,6-Trichlorophenol	1800 U	1800	330	1	12/17/19 20:32	12/10/19	
2,4-Dichlorophenol	1800 U	1800	400	1	12/17/19 20:32	12/10/19	
2,4-Dimethylphenol	1800 U	1800	410	1	12/17/19 20:32	12/10/19	
2,4-Dinitrophenol	9500 U	9500	680	1	12/17/19 20:32	12/10/19	
2,4-Dinitrotoluene	1800 U	1800	730	1	12/17/19 20:32	12/10/19	
2,6-Dinitrotoluene	1800 U	1800	540	1	12/17/19 20:32	12/10/19	
2-Chloronaphthalene	1800 U	1800	450	1	12/17/19 20:32	12/10/19	
2-Chlorophenol	1800 U	1800	460	1	12/17/19 20:32	12/10/19	
2-Methylnaphthalene	**790 J**	1800	410	1	12/17/19 20:32	12/10/19	
2-Methylphenol	**970 J**	1800	400	1	12/17/19 20:32	12/10/19	
2-Nitroaniline	9500 U	9500	550	1	12/17/19 20:32	12/10/19	
2-Nitrophenol	1800 U	1800	540	1	12/17/19 20:32	12/10/19	
3,3'-Dichlorobenzidine	1800 U	1800	390	1	12/17/19 20:32	12/10/19	
3- and 4-Methylphenol Coelution	**770 J**	1800	360	1	12/17/19 20:32	12/10/19	
3-Nitroaniline	9500 U	9500	400	1	12/17/19 20:32	12/10/19	
4,6-Dinitro-2-methylphenol	9500 U	9500	790	1	12/17/19 20:32	12/10/19	
4-Bromophenyl Phenyl Ether	1800 U	1800	680	1	12/17/19 20:32	12/10/19	
4-Chloro-3-methylphenol	1800 U	1800	410	1	12/17/19 20:32	12/10/19	
4-Chloroaniline	1800 U	1800	440	1	12/17/19 20:32	12/10/19	
4-Chlorophenyl Phenyl Ether	1800 U	1800	450	1	12/17/19 20:32	12/10/19	
4-Nitroaniline	9500 U	9500	400	1	12/17/19 20:32	12/10/19	
4-Nitrophenol	9500 U	9500	620	1	12/17/19 20:32	12/10/19	
Acenaphthene	1800 U	1800	420	1	12/17/19 20:32	12/10/19	
Acenaphthylene	1800 U	1800	490	1	12/17/19 20:32	12/10/19	
Acetophenone	1800 U	1800	420	1	12/17/19 20:32	12/10/19	
Anthracene	1800 U	1800	520	1	12/17/19 20:32	12/10/19	
Atrazine	1800 U	1800	730	1	12/17/19 20:32	12/10/19	
Benz(a)anthracene	1800 U	1800	550	1	12/17/19 20:32	12/10/19	
Benzaldehyde	9500 U	9500	370	1	12/17/19 20:32	12/10/19	
Benzo(a)pyrene	1800 U	1800	680	1	12/17/19 20:32	12/10/19	
Benzo(b)fluoranthene	1800 U	1800	620	1	12/17/19 20:32	12/10/19	
Benzo(g,h,i)perylene	1800 U	1800	490	1	12/17/19 20:32	12/10/19	
Benzo(k)fluoranthene	1800 U	1800	680	1	12/17/19 20:32	12/10/19	
Biphenyl	1800 U	1800	460	1	12/17/19 20:32	12/10/19	
2,2'-Oxybis(1-chloropropane)	1800 U	1800	730	1	12/17/19 20:32	12/10/19	
Bis(2-chloroethoxy)methane	1800 U	1800	500	1	12/17/19 20:32	12/10/19	
Bis(2-chloroethyl) Ether	1800 U	1800	490	1	12/17/19 20:32	12/10/19	
Bis(2-ethylhexyl) Phthalate	**53000 D**	8400	1500	3	12/23/19 10:53	12/10/19	
Butyl Benzyl Phthalate	1800 U	1800	460	1	12/17/19 20:32	12/10/19	
Caprolactam	1800 U	1800	490	1	12/17/19 20:32	12/10/19	

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 10:50
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB2 4-6	**Units:**	ug/Kg
Lab Code:	R1911945-002	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	1800	U	1800	540	1	12/17/19 20:32	12/10/19	
Chrysene	1800	U	1800	680	1	12/17/19 20:32	12/10/19	
Di-n-butyl Phthalate	**2000**		1800	560	1	12/17/19 20:32	12/10/19	
Di-n-octyl Phthalate	1800	U	1800	550	1	12/17/19 20:32	12/10/19	
Dibenz(a,h)anthracene	1800	U	1800	550	1	12/17/19 20:32	12/10/19	
Dibenzofuran	1800	U	1800	370	1	12/17/19 20:32	12/10/19	
Diethyl Phthalate	1800	U	1800	400	1	12/17/19 20:32	12/10/19	
Dimethyl Phthalate	1800	U	1800	420	1	12/17/19 20:32	12/10/19	
Fluoranthene	1800	U	1800	680	1	12/17/19 20:32	12/10/19	
Fluorene	1800	U	1800	430	1	12/17/19 20:32	12/10/19	
Hexachlorobenzene	1800	U	1800	560	1	12/17/19 20:32	12/10/19	
Hexachlorobutadiene	1800	U	1800	450	1	12/17/19 20:32	12/10/19	
Hexachlorocyclopentadiene	1800	U	1800	410	1	12/17/19 20:32	12/10/19	
Hexachloroethane	1800	U	1800	480	1	12/17/19 20:32	12/10/19	
Indeno(1,2,3-cd)pyrene	1800	U	1800	620	1	12/17/19 20:32	12/10/19	
Isophorone	1800	U	1800	510	1	12/17/19 20:32	12/10/19	
N-Nitrosodi-n-propylamine	1800	U	1800	500	1	12/17/19 20:32	12/10/19	
N-Nitrosodiphenylamine	1800	U	1800	1300	1	12/17/19 20:32	12/10/19	
Naphthalene	**4600**		1800	480	1	12/17/19 20:32	12/10/19	
Nitrobenzene	1800	U	1800	480	1	12/17/19 20:32	12/10/19	
Pentachlorophenol (PCP)	9500	U	9500	620	1	12/17/19 20:32	12/10/19	
Phenanthrene	**610**	**J**	1800	540	1	12/17/19 20:32	12/10/19	
Phenol	**470**	**J**	1800	440	1	12/17/19 20:32	12/10/19	
Pyrene	1800	U	1800	730	1	12/17/19 20:32	12/10/19	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
000057-11-4	Octadecanoic acid	10.26	4800	JN
000080-05-7	Phenol, 4,4'-(1-methylethylidene)b	10.40	5900	JN
	unknown	11.87	2000	J
000611-14-3	Benzene, 1-ethyl-2-methyl-	4.14	6000	JN
000108-67-8	Benzene, 1,3,5-trimethyl-	4.20	5200	JN
000526-73-8	Benzene, 1,2,3-trimethyl-	4.39	31000	JN
001074-43-7	Benzene, 1-methyl-3-propyl-	4.78	7100	JN
000934-74-7	Benzene, 1-ethyl-3,5-dimethyl-	4.82	9900	JN
	unknown	5.12	5000	J
	unknown	5.17	2400	J
000095-93-2	Benzene, 1,2,4,5-tetramethyl-	5.23	4000	JN
000488-23-3	Benzene, 1,2,3,4-tetramethyl-	5.25	4100	JN
	unknown	5.35	3000	J

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 10:50
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB2 4-6	**Units:**	ug/Kg
Lab Code:	R1911945-002	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
000527-84-4	Benzene, 1-methyl-2-(1-methylethyl	5.46	5000	JN
000143-07-7	Dodecanoic acid	7.66	1900	JN
000544-63-8	Tetradecanoic acid	8.61	18000	JN
000057-10-3	n-Hexadecanoic acid	9.50	89000	JN

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	37	10 - 109	12/17/19 20:32	
2-Fluorobiphenyl	26	10 - 102	12/17/19 20:32	
2-Fluorophenol	16	10 - 88	12/17/19 20:32	
Nitrobenzene-d5	58	10 - 95	12/17/19 20:32	
Phenol-d6	21	10 - 145	12/17/19 20:32	
Terphenyl-d14	39	10 - 106	12/17/19 20:32	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:00
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB2 15-17	**Units:**	ug/Kg
Lab Code:	R1911945-003	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	430 U	430	110	1	12/17/19 20:59	12/10/19	
2,3,4,6-Tetrachlorophenol	430 U	430	90	1	12/17/19 20:59	12/10/19	
2,4,5-Trichlorophenol	430 U	430	370	1	12/17/19 20:59	12/10/19	
2,4,6-Trichlorophenol	430 U	430	76	1	12/17/19 20:59	12/10/19	
2,4-Dichlorophenol	430 U	430	91	1	12/17/19 20:59	12/10/19	
2,4-Dimethylphenol	430 U	430	94	1	12/17/19 20:59	12/10/19	
2,4-Dinitrophenol	2200 U	2200	160	1	12/17/19 20:59	12/10/19	
2,4-Dinitrotoluene	430 U	430	170	1	12/17/19 20:59	12/10/19	
2,6-Dinitrotoluene	430 U	430	130	1	12/17/19 20:59	12/10/19	
2-Chloronaphthalene	430 U	430	110	1	12/17/19 20:59	12/10/19	
2-Chlorophenol	430 U	430	110	1	12/17/19 20:59	12/10/19	
2-Methylnaphthalene	**140 J**	430	94	1	12/17/19 20:59	12/10/19	
2-Methylphenol	430 U	430	93	1	12/17/19 20:59	12/10/19	
2-Nitroaniline	2200 U	2200	130	1	12/17/19 20:59	12/10/19	
2-Nitrophenol	430 U	430	130	1	12/17/19 20:59	12/10/19	
3,3'-Dichlorobenzidine	430 U	430	90	1	12/17/19 20:59	12/10/19	
3- and 4-Methylphenol Coelution	**260 J**	430	82	1	12/17/19 20:59	12/10/19	
3-Nitroaniline	2200 U	2200	91	1	12/17/19 20:59	12/10/19	
4,6-Dinitro-2-methylphenol	2200 U	2200	190	1	12/17/19 20:59	12/10/19	
4-Bromophenyl Phenyl Ether	430 U	430	160	1	12/17/19 20:59	12/10/19	
4-Chloro-3-methylphenol	430 U	430	94	1	12/17/19 20:59	12/10/19	
4-Chloroaniline	430 U	430	110	1	12/17/19 20:59	12/10/19	
4-Chlorophenyl Phenyl Ether	430 U	430	110	1	12/17/19 20:59	12/10/19	
4-Nitroaniline	2200 U	2200	91	1	12/17/19 20:59	12/10/19	
4-Nitrophenol	2200 U	2200	150	1	12/17/19 20:59	12/10/19	
Acenaphthene	430 U	430	96	1	12/17/19 20:59	12/10/19	
Acenaphthylene	430 U	430	120	1	12/17/19 20:59	12/10/19	
Acetophenone	430 U	430	98	1	12/17/19 20:59	12/10/19	
Anthracene	430 U	430	120	1	12/17/19 20:59	12/10/19	
Atrazine	430 U	430	170	1	12/17/19 20:59	12/10/19	
Benz(a)anthracene	430 U	430	130	1	12/17/19 20:59	12/10/19	
Benzaldehyde	2200 U	2200	85	1	12/17/19 20:59	12/10/19	
Benzo(a)pyrene	430 U	430	160	1	12/17/19 20:59	12/10/19	
Benzo(b)fluoranthene	430 U	430	150	1	12/17/19 20:59	12/10/19	
Benzo(g,h,i)perylene	430 U	430	120	1	12/17/19 20:59	12/10/19	
Benzo(k)fluoranthene	430 U	430	160	1	12/17/19 20:59	12/10/19	
Biphenyl	430 U	430	110	1	12/17/19 20:59	12/10/19	
2,2'-Oxybis(1-chloropropane)	430 U	430	170	1	12/17/19 20:59	12/10/19	
Bis(2-chloroethoxy)methane	430 U	430	120	1	12/17/19 20:59	12/10/19	
Bis(2-chloroethyl) Ether	430 U	430	120	1	12/17/19 20:59	12/10/19	
Bis(2-ethylhexyl) Phthalate	**9200 D**	3200	580	5	12/26/19 10:47	12/10/19	
Butyl Benzyl Phthalate	430 U	430	110	1	12/17/19 20:59	12/10/19	
Caprolactam	430 U	430	120	1	12/17/19 20:59	12/10/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:00
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB2 15-17	**Units:**	ug/Kg
Lab Code:	R1911945-003	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	430 U	430	130	1	12/17/19 20:59	12/10/19	
Chrysene	430 U	430	160	1	12/17/19 20:59	12/10/19	
Di-n-butyl Phthalate	**400 J**	430	130	1	12/17/19 20:59	12/10/19	
Di-n-octyl Phthalate	430 U	430	130	1	12/17/19 20:59	12/10/19	
Dibenz(a,h)anthracene	430 U	430	130	1	12/17/19 20:59	12/10/19	
Dibenzofuran	430 U	430	85	1	12/17/19 20:59	12/10/19	
Diethyl Phthalate	430 U	430	91	1	12/17/19 20:59	12/10/19	
Dimethyl Phthalate	430 U	430	96	1	12/17/19 20:59	12/10/19	
Fluoranthene	**250 J**	430	160	1	12/17/19 20:59	12/10/19	
Fluorene	430 U	430	99	1	12/17/19 20:59	12/10/19	
Hexachlorobenzene	430 U	430	130	1	12/17/19 20:59	12/10/19	
Hexachlorobutadiene	430 U	430	110	1	12/17/19 20:59	12/10/19	
Hexachlorocyclopentadiene	430 U	430	94	1	12/17/19 20:59	12/10/19	
Hexachloroethane	430 U	430	120	1	12/17/19 20:59	12/10/19	
Indeno(1,2,3-cd)pyrene	430 U	430	150	1	12/17/19 20:59	12/10/19	
Isophorone	430 U	430	120	1	12/17/19 20:59	12/10/19	
N-Nitrosodi-n-propylamine	430 U	430	120	1	12/17/19 20:59	12/10/19	
N-Nitrosodiphenylamine	430 U	430	290	1	12/17/19 20:59	12/10/19	
Naphthalene	**630**	430	120	1	12/17/19 20:59	12/10/19	
Nitrobenzene	430 U	430	120	1	12/17/19 20:59	12/10/19	
Pentachlorophenol (PCP)	2200 U	2200	150	1	12/17/19 20:59	12/10/19	
Phenanthrene	**390 J**	430	130	1	12/17/19 20:59	12/10/19	
Phenol	430 U	430	110	1	12/17/19 20:59	12/10/19	
Pyrene	**180 J**	430	170	1	12/17/19 20:59	12/10/19	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
000506-17-2	cis-Vaccenic acid	10.19	6300	JN
000080-05-7	Phenol, 4,4'-(1-methylethylidene)b	10.40	580	JN
	unknown hydrocarbon	10.84	380	J
	unknown hydrocarbon	11.87	400	J
	unknown	3.19	3000	J
000611-14-3	Benzene, 1-ethyl-2-methyl-	4.14	1400	JN
000526-73-8	Benzene, 1,2,3-trimethyl-	4.39	6900	JN
	unknown	5.12	930	J
	unknown	5.17	470	J
000095-93-2	Benzene, 1,2,4,5-tetramethyl-	5.23	680	JN
000488-23-3	Benzene, 1,2,3,4-tetramethyl-	5.25	920	JN
	unknown	5.35	640	J
000527-84-4	Benzene, 1-methyl-2-(1-methylethyl	5.46	970	JN

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:00
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB2 15-17	**Units:**	ug/Kg
Lab Code:	R1911945-003	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	5.52	480	J
	unknown	6.12	910	J
	unknown hydrocarbon	8.33	520	J
000544-63-8	Tetradecanoic acid	8.60	2100	JN

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	59	10 - 109	12/17/19 20:59	
2-Fluorobiphenyl	41	10 - 102	12/17/19 20:59	
2-Fluorophenol	39	10 - 88	12/17/19 20:59	
Nitrobenzene-d5	48	10 - 95	12/17/19 20:59	
Phenol-d6	40	10 - 145	12/17/19 20:59	
Terphenyl-d14	64	10 - 106	12/17/19 20:59	

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:20
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB3 1-2	**Units:**	ug/Kg
Lab Code:	R1911945-004	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	350	U	350	83	1	12/17/19 21:27	12/10/19	
2,3,4,6-Tetrachlorophenol	350	U	350	74	1	12/17/19 21:27	12/10/19	
2,4,5-Trichlorophenol	350	U	350	300	1	12/17/19 21:27	12/10/19	
2,4,6-Trichlorophenol	350	U	350	62	1	12/17/19 21:27	12/10/19	
2,4-Dichlorophenol	350	U	350	75	1	12/17/19 21:27	12/10/19	
2,4-Dimethylphenol	350	U	350	77	1	12/17/19 21:27	12/10/19	
2,4-Dinitrophenol	1800	U	1800	130	1	12/17/19 21:27	12/10/19	
2,4-Dinitrotoluene	350	U	350	140	1	12/17/19 21:27	12/10/19	
2,6-Dinitrotoluene	350	U	350	110	1	12/17/19 21:27	12/10/19	
2-Chloronaphthalene	350	U	350	84	1	12/17/19 21:27	12/10/19	
2-Chlorophenol	350	U	350	86	1	12/17/19 21:27	12/10/19	
2-Methylnaphthalene	350	U	350	77	1	12/17/19 21:27	12/10/19	
2-Methylphenol	350	U	350	76	1	12/17/19 21:27	12/10/19	
2-Nitroaniline	1800	U	1800	110	1	12/17/19 21:27	12/10/19	
2-Nitrophenol	350	U	350	110	1	12/17/19 21:27	12/10/19	
3,3'-Dichlorobenzidine	350	U	350	74	1	12/17/19 21:27	12/10/19	
3- and 4-Methylphenol Coelution	350	U	350	67	1	12/17/19 21:27	12/10/19	
3-Nitroaniline	1800	U	1800	75	1	12/17/19 21:27	12/10/19	
4,6-Dinitro-2-methylphenol	1800	U	1800	150	1	12/17/19 21:27	12/10/19	
4-Bromophenyl Phenyl Ether	350	U	350	130	1	12/17/19 21:27	12/10/19	
4-Chloro-3-methylphenol	350	U	350	77	1	12/17/19 21:27	12/10/19	
4-Chloroaniline	350	U	350	83	1	12/17/19 21:27	12/10/19	
4-Chlorophenyl Phenyl Ether	350	U	350	84	1	12/17/19 21:27	12/10/19	
4-Nitroaniline	1800	U	1800	75	1	12/17/19 21:27	12/10/19	
4-Nitrophenol	1800	U	1800	120	1	12/17/19 21:27	12/10/19	
Acenaphthene	350	U	350	79	1	12/17/19 21:27	12/10/19	
Acenaphthylene	350	U	350	93	1	12/17/19 21:27	12/10/19	
Acetophenone	350	U	350	80	1	12/17/19 21:27	12/10/19	
Anthracene	**140**	**J**	350	98	1	12/17/19 21:27	12/10/19	
Atrazine	350	U	350	140	1	12/17/19 21:27	12/10/19	
Benz(a)anthracene	**290**	**J**	350	110	1	12/17/19 21:27	12/10/19	
Benzaldehyde	1800	U	1800	69	1	12/17/19 21:27	12/10/19	
Benzo(a)pyrene	**310**	**J**	350	130	1	12/17/19 21:27	12/10/19	
Benzo(b)fluoranthene	**470**		350	120	1	12/17/19 21:27	12/10/19	
Benzo(g,h,i)perylene	**250**	**J**	350	93	1	12/17/19 21:27	12/10/19	
Benzo(k)fluoranthene	**160**	**J**	350	130	1	12/17/19 21:27	12/10/19	
Biphenyl	350	U	350	86	1	12/17/19 21:27	12/10/19	
2,2'-Oxybis(1-chloropropane)	350	U	350	140	1	12/17/19 21:27	12/10/19	
Bis(2-chloroethoxy)methane	350	U	350	94	1	12/17/19 21:27	12/10/19	
Bis(2-chloroethyl) Ether	350	U	350	92	1	12/17/19 21:27	12/10/19	
Bis(2-ethylhexyl) Phthalate	**2000**		530	94	1	12/17/19 21:27	12/10/19	
Butyl Benzyl Phthalate	350	U	350	87	1	12/17/19 21:27	12/10/19	
Caprolactam	350	U	350	92	1	12/17/19 21:27	12/10/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:20
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB3 1-2	**Units:**	ug/Kg
Lab Code:	R1911945-004	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	350	U	350	110	1	12/17/19 21:27	12/10/19	
Chrysene	**360**		350	130	1	12/17/19 21:27	12/10/19	
Di-n-butyl Phthalate	350	U	350	110	1	12/17/19 21:27	12/10/19	
Di-n-octyl Phthalate	350	U	350	110	1	12/17/19 21:27	12/10/19	
Dibenz(a,h)anthracene	350	U	350	110	1	12/17/19 21:27	12/10/19	
Dibenzofuran	350	U	350	69	1	12/17/19 21:27	12/10/19	
Diethyl Phthalate	350	U	350	75	1	12/17/19 21:27	12/10/19	
Dimethyl Phthalate	350	U	350	79	1	12/17/19 21:27	12/10/19	
Fluoranthene	**660**		350	130	1	12/17/19 21:27	12/10/19	
Fluorene	350	U	350	81	1	12/17/19 21:27	12/10/19	
Hexachlorobenzene	350	U	350	110	1	12/17/19 21:27	12/10/19	
Hexachlorobutadiene	350	U	350	85	1	12/17/19 21:27	12/10/19	
Hexachlorocyclopentadiene	350	U	350	77	1	12/17/19 21:27	12/10/19	
Hexachloroethane	350	U	350	91	1	12/17/19 21:27	12/10/19	
Indeno(1,2,3-cd)pyrene	**260**	**J**	350	120	1	12/17/19 21:27	12/10/19	
Isophorone	350	U	350	96	1	12/17/19 21:27	12/10/19	
N-Nitrosodi-n-propylamine	350	U	350	94	1	12/17/19 21:27	12/10/19	
N-Nitrosodiphenylamine	350	U	350	240	1	12/17/19 21:27	12/10/19	
Naphthalene	350	U	350	91	1	12/17/19 21:27	12/10/19	
Nitrobenzene	350	U	350	91	1	12/17/19 21:27	12/10/19	
Pentachlorophenol (PCP)	1800	U	1800	120	1	12/17/19 21:27	12/10/19	
Phenanthrene	**520**		350	110	1	12/17/19 21:27	12/10/19	
Phenol	350	U	350	83	1	12/17/19 21:27	12/10/19	
Pyrene	**590**		350	140	1	12/17/19 21:27	12/10/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	73	10 - 109	12/17/19 21:27	
2-Fluorobiphenyl	53	10 - 102	12/17/19 21:27	
2-Fluorophenol	52	10 - 88	12/17/19 21:27	
Nitrobenzene-d5	56	10 - 95	12/17/19 21:27	
Phenol-d6	52	10 - 145	12/17/19 21:27	
Terphenyl-d14	74	10 - 106	12/17/19 21:27	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
060233-24-1	1,1'-Biphenyl, 2,3',4,6-Tetrachlor	10.01	290	JN
006566-19-4	10,18-Bisnorabieta-5,7,9(10),11,13	10.13	500	JN
000057-11-4	Octadecanoic acid	10.26	360	JN
000080-05-7	Phenol, 4,4'-(1-methylethylidene)b	10.40	1200	JN
	unknown	13.02	600	J
000198-55-0	Perylene	14.53	280	JN

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:20
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB3 1-2	**Units:**	ug/Kg
Lab Code:	R1911945-004	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown hydrocarbon	16.11	330	J
	unknown	3.18	1300	J
000108-67-8	Benzene, 1,3,5-trimethyl-	4.39	360	JN
	unknown	5.91	410	J
	unknown	6.12	850	J
	unknown	6.18	240	J
	unknown hydrocarbon	6.29	200	J
	unknown	8.76	200	J
055702-46-0	1,1'-Biphenyl, 2,3,4-trichloro-	9.21	290	JN
002437-79-8	1,1'-Biphenyl, 2,2',4,4'-tetrachlo	9.52	370	JN
036559-22-5	1,1'-Biphenyl, 2,2',3,4'-tetrachlo	9.54	210	JN
033284-52-5	1,1'-Biphenyl, 3,3',5,5'-tetrachloro-	9.65	390	JN
032598-13-3	1,1'-Biphenyl, 3,3',4,4'-tetrachlo	9.95	220	JN
041464-42-0	1,1'-Biphenyl, 2,3',5,5'-tetrachlo	9.98	540	JN

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:00
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB3 4-6	**Units:**	ug/Kg
Lab Code:	R1911945-005	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	390 U	390	92	1	12/17/19 21:55	12/10/19	
2,3,4,6-Tetrachlorophenol	390 U	390	81	1	12/17/19 21:55	12/10/19	
2,4,5-Trichlorophenol	390 U	390	330	1	12/17/19 21:55	12/10/19	
2,4,6-Trichlorophenol	390 U	390	68	1	12/17/19 21:55	12/10/19	
2,4-Dichlorophenol	390 U	390	82	1	12/17/19 21:55	12/10/19	
2,4-Dimethylphenol	390 U	390	85	1	12/17/19 21:55	12/10/19	
2,4-Dinitrophenol	2000 U	2000	150	1	12/17/19 21:55	12/10/19	
2,4-Dinitrotoluene	390 U	390	160	1	12/17/19 21:55	12/10/19	
2,6-Dinitrotoluene	390 U	390	120	1	12/17/19 21:55	12/10/19	
2-Chloronaphthalene	390 U	390	93	1	12/17/19 21:55	12/10/19	
2-Chlorophenol	390 U	390	95	1	12/17/19 21:55	12/10/19	
2-Methylnaphthalene	**16000 D**	3900	850	10	12/26/19 11:15	12/10/19	
2-Methylphenol	390 U	390	84	1	12/17/19 21:55	12/10/19	
2-Nitroaniline	2000 U	2000	120	1	12/17/19 21:55	12/10/19	
2-Nitrophenol	390 U	390	120	1	12/17/19 21:55	12/10/19	
3,3'-Dichlorobenzidine	390 U	390	81	1	12/17/19 21:55	12/10/19	
3- and 4-Methylphenol Coelution	**110 J**	390	74	1	12/17/19 21:55	12/10/19	
3-Nitroaniline	2000 U	2000	82	1	12/17/19 21:55	12/10/19	
4,6-Dinitro-2-methylphenol	2000 U	2000	170	1	12/17/19 21:55	12/10/19	
4-Bromophenyl Phenyl Ether	390 U	390	150	1	12/17/19 21:55	12/10/19	
4-Chloro-3-methylphenol	390 U	390	85	1	12/17/19 21:55	12/10/19	
4-Chloroaniline	390 U	390	92	1	12/17/19 21:55	12/10/19	
4-Chlorophenyl Phenyl Ether	390 U	390	93	1	12/17/19 21:55	12/10/19	
4-Nitroaniline	2000 U	2000	82	1	12/17/19 21:55	12/10/19	
4-Nitrophenol	2000 U	2000	130	1	12/17/19 21:55	12/10/19	
Acenaphthene	**6900 D**	3900	870	10	12/26/19 11:15	12/10/19	
Acenaphthylene	**110 J**	390	110	1	12/17/19 21:55	12/10/19	
Acetophenone	390 U	390	88	1	12/17/19 21:55	12/10/19	
Anthracene	**6000 D**	3900	1100	10	12/26/19 11:15	12/10/19	
Atrazine	390 U	390	160	1	12/17/19 21:55	12/10/19	
Benz(a)anthracene	**5100 D**	3900	1200	10	12/26/19 11:15	12/10/19	
Benzaldehyde	2000 U	2000	77	1	12/17/19 21:55	12/10/19	
Benzo(a)pyrene	**3800 DJ**	3900	1500	10	12/26/19 11:15	12/10/19	
Benzo(b)fluoranthene	**4400 D**	3900	1300	10	12/26/19 11:15	12/10/19	
Benzo(g,h,i)perylene	**1900**	390	110	1	12/17/19 21:55	12/10/19	
Benzo(k)fluoranthene	**1900**	390	150	1	12/17/19 21:55	12/10/19	
Biphenyl	**2200**	390	95	1	12/17/19 21:55	12/10/19	
2,2'-Oxybis(1-chloropropane)	390 U	390	160	1	12/17/19 21:55	12/10/19	
Bis(2-chloroethoxy)methane	390 U	390	110	1	12/17/19 21:55	12/10/19	
Bis(2-chloroethyl) Ether	390 U	390	110	1	12/17/19 21:55	12/10/19	
Bis(2-ethylhexyl) Phthalate	**5300 DJ**	5900	1100	10	12/26/19 11:15	12/10/19	
Butyl Benzyl Phthalate	390 U	390	97	1	12/17/19 21:55	12/10/19	
Caprolactam	390 U	390	110	1	12/17/19 21:55	12/10/19	

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:00
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB3 4-6	**Units:**	ug/Kg
Lab Code:	R1911945-005	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	**2200**		390	120	1	12/17/19 21:55	12/10/19	
Chrysene	**4300**	**D**	3900	1500	10	12/26/19 11:15	12/10/19	
Di-n-butyl Phthalate	390	U	390	120	1	12/17/19 21:55	12/10/19	
Di-n-octyl Phthalate	390	U	390	120	1	12/17/19 21:55	12/10/19	
Dibenz(a,h)anthracene	**640**		390	120	1	12/17/19 21:55	12/10/19	
Dibenzofuran	**7200**	**D**	3900	770	10	12/26/19 11:15	12/10/19	
Diethyl Phthalate	390	U	390	82	1	12/17/19 21:55	12/10/19	
Dimethyl Phthalate	390	U	390	87	1	12/17/19 21:55	12/10/19	
Fluoranthene	**14000**	**D**	3900	1500	10	12/26/19 11:15	12/10/19	
Fluorene	**7200**	**D**	3900	900	10	12/26/19 11:15	12/10/19	
Hexachlorobenzene	390	U	390	120	1	12/17/19 21:55	12/10/19	
Hexachlorobutadiene	390	U	390	94	1	12/17/19 21:55	12/10/19	
Hexachlorocyclopentadiene	390	U	390	85	1	12/17/19 21:55	12/10/19	
Hexachloroethane	390	U	390	100	1	12/17/19 21:55	12/10/19	
Indeno(1,2,3-cd)pyrene	**2300**		390	130	1	12/17/19 21:55	12/10/19	
Isophorone	390	U	390	110	1	12/17/19 21:55	12/10/19	
N-Nitrosodi-n-propylamine	390	U	390	110	1	12/17/19 21:55	12/10/19	
N-Nitrosodiphenylamine	390	U	390	260	1	12/17/19 21:55	12/10/19	
Naphthalene	**5300**	**D**	3900	1000	10	12/26/19 11:15	12/10/19	
Nitrobenzene	390	U	390	100	1	12/17/19 21:55	12/10/19	
Pentachlorophenol (PCP)	2000	U	2000	130	1	12/17/19 21:55	12/10/19	
Phenanthrene	**22000**	**D**	3900	1200	10	12/26/19 11:15	12/10/19	
Phenol	390	U	390	92	1	12/17/19 21:55	12/10/19	
Pyrene	**12000**	**D**	3900	1600	10	12/26/19 11:15	12/10/19	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
000080-05-7	Phenol, 4,4'-(1-methylethylidene)b	10.46	6800	JN
	unknown	13.52	960	J
	unknown	13.57	3400	J
000192-97-2	Benzo[e]pyrene	14.58	2900	JN
000198-55-0	Perylene	14.86	1100	JN
000611-14-3	Benzene, 1-ethyl-2-methyl-	4.14	970	JN
00526-73-8	Benzene, 1,2,3-tetramethyl-	4.40	3100	JN
000108-67-8	Benzene, 1,3,5-trimethyl-	4.60	1100	JN
	unknown	4.67	1100	J
	unknown	4.78	1500	J
000527-84-4	Benzene, 1-methyl-2-(1-methylethyl	4.83	1300	JN
	unknown hydrocarbon	4.84	760	J
	unknown hydrocarbon	5.09	3000	J

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:00
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB3 4-6	**Units:**	ug/Kg
Lab Code:	R1911945-005	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	5.12	870	J
000095-93-2	Benzene, 1,2,4,5-tetramethyl-	5.26	870	JN
000535-77-3	Benzene, 1-methyl-3-(1-methylethyl	5.47	1100	JN
000581-42-0	Naphthalene, 2,6-dimethyl-	7.00	1200	JN
000575-37-1	Naphthalene, 1,7-dimethyl-	7.08	1100	JN

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	67	10 - 109	12/17/19 21:55	
2-Fluorobiphenyl	52	10 - 102	12/17/19 21:55	
2-Fluorophenol	53	10 - 88	12/17/19 21:55	
Nitrobenzene-d5	78	10 - 95	12/17/19 21:55	
Phenol-d6	53	10 - 145	12/17/19 21:55	
Terphenyl-d14	75	10 - 106	12/17/19 21:55	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:50
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB3 10-12	**Units:**	ug/Kg
Lab Code:	R1911945-006	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	380 U	380	90	1	12/17/19 22:22	12/10/19	
2,3,4,6-Tetrachlorophenol	380 U	380	80	1	12/17/19 22:22	12/10/19	
2,4,5-Trichlorophenol	380 U	380	330	1	12/17/19 22:22	12/10/19	
2,4,6-Trichlorophenol	380 U	380	67	1	12/17/19 22:22	12/10/19	
2,4-Dichlorophenol	380 U	380	81	1	12/17/19 22:22	12/10/19	
2,4-Dimethylphenol	380 U	380	83	1	12/17/19 22:22	12/10/19	
2,4-Dinitrophenol	2000 U	2000	140	1	12/17/19 22:22	12/10/19	
2,4-Dinitrotoluene	380 U	380	150	1	12/17/19 22:22	12/10/19	
2,6-Dinitrotoluene	380 U	380	120	1	12/17/19 22:22	12/10/19	
2-Chloronaphthalene	380 U	380	92	1	12/17/19 22:22	12/10/19	
2-Chlorophenol	380 U	380	94	1	12/17/19 22:22	12/10/19	
2-Methylnaphthalene	380 U	380	83	1	12/17/19 22:22	12/10/19	
2-Methylphenol	380 U	380	82	1	12/17/19 22:22	12/10/19	
2-Nitroaniline	2000 U	2000	120	1	12/17/19 22:22	12/10/19	
2-Nitrophenol	380 U	380	110	1	12/17/19 22:22	12/10/19	
3,3'-Dichlorobenzidine	380 U	380	80	1	12/17/19 22:22	12/10/19	
3- and 4-Methylphenol Coelution	380 U	380	73	1	12/17/19 22:22	12/10/19	
3-Nitroaniline	2000 U	2000	81	1	12/17/19 22:22	12/10/19	
4,6-Dinitro-2-methylphenol	2000 U	2000	170	1	12/17/19 22:22	12/10/19	
4-Bromophenyl Phenyl Ether	380 U	380	140	1	12/17/19 22:22	12/10/19	
4-Chloro-3-methylphenol	380 U	380	83	1	12/17/19 22:22	12/10/19	
4-Chloroaniline	380 U	380	90	1	12/17/19 22:22	12/10/19	
4-Chlorophenyl Phenyl Ether	380 U	380	92	1	12/17/19 22:22	12/10/19	
4-Nitroaniline	2000 U	2000	81	1	12/17/19 22:22	12/10/19	
4-Nitrophenol	2000 U	2000	130	1	12/17/19 22:22	12/10/19	
Acenaphthene	380 U	380	86	1	12/17/19 22:22	12/10/19	
Acenaphthylene	380 U	380	110	1	12/17/19 22:22	12/10/19	
Acetophenone	380 U	380	87	1	12/17/19 22:22	12/10/19	
Anthracene	380 U	380	110	1	12/17/19 22:22	12/10/19	
Atrazine	380 U	380	150	1	12/17/19 22:22	12/10/19	
Benz(a)anthracene	380 U	380	120	1	12/17/19 22:22	12/10/19	
Benzaldehyde	2000 U	2000	75	1	12/17/19 22:22	12/10/19	
Benzo(a)pyrene	380 U	380	140	1	12/17/19 22:22	12/10/19	
Benzo(b)fluoranthene	380 U	380	130	1	12/17/19 22:22	12/10/19	
Benzo(g,h,i)perylene	380 U	380	110	1	12/17/19 22:22	12/10/19	
Benzo(k)fluoranthene	380 U	380	140	1	12/17/19 22:22	12/10/19	
Biphenyl	380 U	380	94	1	12/17/19 22:22	12/10/19	
2,2'-Oxybis(1-chloropropane)	380 U	380	150	1	12/17/19 22:22	12/10/19	
Bis(2-chloroethoxy)methane	380 U	380	110	1	12/17/19 22:22	12/10/19	
Bis(2-chloroethyl) Ether	380 U	380	100	1	12/17/19 22:22	12/10/19	
Bis(2-ethylhexyl) Phthalate	**170 J**	580	110	1	12/17/19 22:22	12/10/19	
Butyl Benzyl Phthalate	380 U	380	95	1	12/17/19 22:22	12/10/19	
Caprolactam	380 U	380	100	1	12/17/19 22:22	12/10/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:50
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB3 10-12	**Units:**	ug/Kg
Lab Code:	R1911945-006	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	380 U	380	110	1	12/17/19 22:22	12/10/19	
Chrysene	380 U	380	140	1	12/17/19 22:22	12/10/19	
Di-n-butyl Phthalate	380 U	380	120	1	12/17/19 22:22	12/10/19	
Di-n-octyl Phthalate	380 U	380	120	1	12/17/19 22:22	12/10/19	
Dibenz(a,h)anthracene	380 U	380	120	1	12/17/19 22:22	12/10/19	
Dibenzofuran	380 U	380	75	1	12/17/19 22:22	12/10/19	
Diethyl Phthalate	380 U	380	81	1	12/17/19 22:22	12/10/19	
Dimethyl Phthalate	380 U	380	86	1	12/17/19 22:22	12/10/19	
Fluoranthene	380 U	380	140	1	12/17/19 22:22	12/10/19	
Fluorene	380 U	380	88	1	12/17/19 22:22	12/10/19	
Hexachlorobenzene	380 U	380	120	1	12/17/19 22:22	12/10/19	
Hexachlorobutadiene	380 U	380	93	1	12/17/19 22:22	12/10/19	
Hexachlorocyclopentadiene	380 U	380	83	1	12/17/19 22:22	12/10/19	
Hexachloroethane	380 U	380	98	1	12/17/19 22:22	12/10/19	
Indeno(1,2,3-cd)pyrene	380 U	380	130	1	12/17/19 22:22	12/10/19	
Isophorone	380 U	380	110	1	12/17/19 22:22	12/10/19	
N-Nitrosodi-n-propylamine	380 U	380	110	1	12/17/19 22:22	12/10/19	
N-Nitrosodiphenylamine	380 U	380	260	1	12/17/19 22:22	12/10/19	
Naphthalene	380 U	380	98	1	12/17/19 22:22	12/10/19	
Nitrobenzene	380 U	380	98	1	12/17/19 22:22	12/10/19	
Pentachlorophenol (PCP)	2000 U	2000	130	1	12/17/19 22:22	12/10/19	
Phenanthrene	380 U	380	120	1	12/17/19 22:22	12/10/19	
Phenol	380 U	380	90	1	12/17/19 22:22	12/10/19	
Pyrene	380 U	380	150	1	12/17/19 22:22	12/10/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	68	10 - 109	12/17/19 22:22	
2-Fluorobiphenyl	47	10 - 102	12/17/19 22:22	
2-Fluorophenol	39	10 - 88	12/17/19 22:22	
Nitrobenzene-d5	43	10 - 95	12/17/19 22:22	
Phenol-d6	42	10 - 145	12/17/19 22:22	
Terphenyl-d14	84	10 - 106	12/17/19 22:22	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	11.58	1500	J
	unknown	3.18	1200	J
000556-67-2	Cyclotetrasiloxane, octamethyl-	4.20	180	JN
	unknown	5.91	420	J
	unknown	6.13	710	J
	unknown	6.17	290	J

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:50
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB3 10-12	**Units:**	ug/Kg
Lab Code:	R1911945-006	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
000085-44-9	Phthalic anhydride	6.42	1200	JN

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:10
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB4 1-2	**Units:**	ug/Kg
Lab Code:	R1911945-009	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	380 U	380	91	1	12/17/19 22:49	12/10/19	
2,3,4,6-Tetrachlorophenol	380 U	380	81	1	12/17/19 22:49	12/10/19	
2,4,5-Trichlorophenol	380 U	380	330	1	12/17/19 22:49	12/10/19	
2,4,6-Trichlorophenol	380 U	380	68	1	12/17/19 22:49	12/10/19	
2,4-Dichlorophenol	380 U	380	82	1	12/17/19 22:49	12/10/19	
2,4-Dimethylphenol	380 U	380	84	1	12/17/19 22:49	12/10/19	
2,4-Dinitrophenol	2000 U	2000	140	1	12/17/19 22:49	12/10/19	
2,4-Dinitrotoluene	380 U	380	160	1	12/17/19 22:49	12/10/19	
2,6-Dinitrotoluene	380 U	380	120	1	12/17/19 22:49	12/10/19	
2-Chloronaphthalene	380 U	380	93	1	12/17/19 22:49	12/10/19	
2-Chlorophenol	380 U	380	95	1	12/17/19 22:49	12/10/19	
2-Methylnaphthalene	380 U	380	84	1	12/17/19 22:49	12/10/19	
2-Methylphenol	380 U	380	83	1	12/17/19 22:49	12/10/19	
2-Nitroaniline	2000 U	2000	120	1	12/17/19 22:49	12/10/19	
2-Nitrophenol	380 U	380	120	1	12/17/19 22:49	12/10/19	
3,3'-Dichlorobenzidine	380 U	380	81	1	12/17/19 22:49	12/10/19	
3- and 4-Methylphenol Coelution	380 U	380	74	1	12/17/19 22:49	12/10/19	
3-Nitroaniline	2000 U	2000	82	1	12/17/19 22:49	12/10/19	
4,6-Dinitro-2-methylphenol	2000 U	2000	170	1	12/17/19 22:49	12/10/19	
4-Bromophenyl Phenyl Ether	380 U	380	140	1	12/17/19 22:49	12/10/19	
4-Chloro-3-methylphenol	380 U	380	84	1	12/17/19 22:49	12/10/19	
4-Chloroaniline	380 U	380	91	1	12/17/19 22:49	12/10/19	
4-Chlorophenyl Phenyl Ether	380 U	380	93	1	12/17/19 22:49	12/10/19	
4-Nitroaniline	2000 U	2000	82	1	12/17/19 22:49	12/10/19	
4-Nitrophenol	2000 U	2000	130	1	12/17/19 22:49	12/10/19	
Acenaphthene	380 U	380	87	1	12/17/19 22:49	12/10/19	
Acenaphthylene	380 U	380	110	1	12/17/19 22:49	12/10/19	
Acetophenone	380 U	380	88	1	12/17/19 22:49	12/10/19	
Anthracene	380 U	380	110	1	12/17/19 22:49	12/10/19	
Atrazine	380 U	380	160	1	12/17/19 22:49	12/10/19	
Benz(a)anthracene	380 U	380	120	1	12/17/19 22:49	12/10/19	
Benzaldehyde	2000 U	2000	76	1	12/17/19 22:49	12/10/19	
Benzo(a)pyrene	380 U	380	140	1	12/17/19 22:49	12/10/19	
Benzo(b)fluoranthene	380 U	380	130	1	12/17/19 22:49	12/10/19	
Benzo(g,h,i)perylene	380 U	380	110	1	12/17/19 22:49	12/10/19	
Benzo(k)fluoranthene	380 U	380	140	1	12/17/19 22:49	12/10/19	
Biphenyl	380 U	380	95	1	12/17/19 22:49	12/10/19	
2,2'-Oxybis(1-chloropropane)	380 U	380	160	1	12/17/19 22:49	12/10/19	
Bis(2-chloroethoxy)methane	380 U	380	110	1	12/17/19 22:49	12/10/19	
Bis(2-chloroethyl) Ether	380 U	380	110	1	12/17/19 22:49	12/10/19	
Bis(2-ethylhexyl) Phthalate	580 U	580	110	1	12/17/19 22:49	12/10/19	
Butyl Benzyl Phthalate	380 U	380	96	1	12/17/19 22:49	12/10/19	
Caprolactam	380 U	380	110	1	12/17/19 22:49	12/10/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:10
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB4 1-2	**Units:**	ug/Kg
Lab Code:	R1911945-009	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	380 U	380	120	1	12/17/19 22:49	12/10/19	
Chrysene	380 U	380	140	1	12/17/19 22:49	12/10/19	
Di-n-butyl Phthalate	380 U	380	120	1	12/17/19 22:49	12/10/19	
Di-n-octyl Phthalate	380 U	380	120	1	12/17/19 22:49	12/10/19	
Dibenz(a,h)anthracene	380 U	380	120	1	12/17/19 22:49	12/10/19	
Dibenzofuran	380 U	380	76	1	12/17/19 22:49	12/10/19	
Diethyl Phthalate	380 U	380	82	1	12/17/19 22:49	12/10/19	
Dimethyl Phthalate	380 U	380	87	1	12/17/19 22:49	12/10/19	
Fluoranthene	380 U	380	140	1	12/17/19 22:49	12/10/19	
Fluorene	380 U	380	89	1	12/17/19 22:49	12/10/19	
Hexachlorobenzene	380 U	380	120	1	12/17/19 22:49	12/10/19	
Hexachlorobutadiene	380 U	380	94	1	12/17/19 22:49	12/10/19	
Hexachlorocyclopentadiene	380 U	380	84	1	12/17/19 22:49	12/10/19	
Hexachloroethane	380 U	380	100	1	12/17/19 22:49	12/10/19	
Indeno(1,2,3-cd)pyrene	380 U	380	130	1	12/17/19 22:49	12/10/19	
Isophorone	380 U	380	110	1	12/17/19 22:49	12/10/19	
N-Nitrosodi-n-propylamine	380 U	380	110	1	12/17/19 22:49	12/10/19	
N-Nitrosodiphenylamine	380 U	380	260	1	12/17/19 22:49	12/10/19	
Naphthalene	380 U	380	100	1	12/17/19 22:49	12/10/19	
Nitrobenzene	380 U	380	100	1	12/17/19 22:49	12/10/19	
Pentachlorophenol (PCP)	2000 U	2000	130	1	12/17/19 22:49	12/10/19	
Phenanthrene	380 U	380	120	1	12/17/19 22:49	12/10/19	
Phenol	380 U	380	91	1	12/17/19 22:49	12/10/19	
Pyrene	380 U	380	160	1	12/17/19 22:49	12/10/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	41	10 - 109	12/17/19 22:49	
2-Fluorobiphenyl	31	10 - 102	12/17/19 22:49	
2-Fluorophenol	29	10 - 88	12/17/19 22:49	
Nitrobenzene-d5	32	10 - 95	12/17/19 22:49	
Phenol-d6	30	10 - 145	12/17/19 22:49	
Terphenyl-d14	56	10 - 106	12/17/19 22:49	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	3.18	1100	J
	unknown	5.90	440	J
	unknown	5.94	250	J
	unknown	6.11	610	J
000085-44-9	Phthalic anhydride	6.42	650	JN

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:10
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB4 1-2 Dup	**Units:**	ug/Kg
Lab Code:	R1911945-010	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	380 U	380	91	1	12/18/19 15:21	12/10/19	
2,3,4,6-Tetrachlorophenol	380 U	380	80	1	12/18/19 15:21	12/10/19	
2,4,5-Trichlorophenol	380 U	380	330	1	12/18/19 15:21	12/10/19	
2,4,6-Trichlorophenol	380 U	380	68	1	12/18/19 15:21	12/10/19	
2,4-Dichlorophenol	380 U	380	82	1	12/18/19 15:21	12/10/19	
2,4-Dimethylphenol	380 U	380	84	1	12/18/19 15:21	12/10/19	
2,4-Dinitrophenol	2000 U	2000	140	1	12/18/19 15:21	12/10/19	
2,4-Dinitrotoluene	380 U	380	160	1	12/18/19 15:21	12/10/19	
2,6-Dinitrotoluene	380 U	380	120	1	12/18/19 15:21	12/10/19	
2-Chloronaphthalene	380 U	380	92	1	12/18/19 15:21	12/10/19	
2-Chlorophenol	380 U	380	94	1	12/18/19 15:21	12/10/19	
2-Methylnaphthalene	380 U	380	84	1	12/18/19 15:21	12/10/19	
2-Methylphenol	380 U	380	83	1	12/18/19 15:21	12/10/19	
2-Nitroaniline	2000 U	2000	120	1	12/18/19 15:21	12/10/19	
2-Nitrophenol	380 U	380	110	1	12/18/19 15:21	12/10/19	
3,3'-Dichlorobenzidine	380 U	380	80	1	12/18/19 15:21	12/10/19	
3- and 4-Methylphenol Coelution	380 U	380	73	1	12/18/19 15:21	12/10/19	
3-Nitroaniline	2000 U	2000	82	1	12/18/19 15:21	12/10/19	
4,6-Dinitro-2-methylphenol	2000 U	2000	170	1	12/18/19 15:21	12/10/19	
4-Bromophenyl Phenyl Ether	380 U	380	140	1	12/18/19 15:21	12/10/19	
4-Chloro-3-methylphenol	380 U	380	84	1	12/18/19 15:21	12/10/19	
4-Chloroaniline	380 U	380	91	1	12/18/19 15:21	12/10/19	
4-Chlorophenyl Phenyl Ether	380 U	380	92	1	12/18/19 15:21	12/10/19	
4-Nitroaniline	2000 U	2000	82	1	12/18/19 15:21	12/10/19	
4-Nitrophenol	2000 U	2000	130	1	12/18/19 15:21	12/10/19	
Acenaphthene	380 U	380	86	1	12/18/19 15:21	12/10/19	
Acenaphthylene	380 U	380	110	1	12/18/19 15:21	12/10/19	
Acetophenone	380 U	380	87	1	12/18/19 15:21	12/10/19	
Anthracene	380 U	380	110	1	12/18/19 15:21	12/10/19	
Atrazine	380 U	380	160	1	12/18/19 15:21	12/10/19	
Benz(a)anthracene	380 U	380	120	1	12/18/19 15:21	12/10/19	
Benzaldehyde	2000 U	2000	76	1	12/18/19 15:21	12/10/19	
Benzo(a)pyrene	380 U	380	140	1	12/18/19 15:21	12/10/19	
Benzo(b)fluoranthene	380 U	380	130	1	12/18/19 15:21	12/10/19	
Benzo(g,h,i)perylene	380 U	380	110	1	12/18/19 15:21	12/10/19	
Benzo(k)fluoranthene	380 U	380	140	1	12/18/19 15:21	12/10/19	
Biphenyl	380 U	380	94	1	12/18/19 15:21	12/10/19	
2,2'-Oxybis(1-chloropropane)	380 U	380	160	1	12/18/19 15:21	12/10/19	
Bis(2-chloroethoxy)methane	380 U	380	110	1	12/18/19 15:21	12/10/19	
Bis(2-chloroethyl) Ether	380 U	380	100	1	12/18/19 15:21	12/10/19	
Bis(2-ethylhexyl) Phthalate	580 U	580	110	1	12/18/19 15:21	12/10/19	
Butyl Benzyl Phthalate	380 U	380	95	1	12/18/19 15:21	12/10/19	
Caprolactam	380 U	380	100	1	12/18/19 15:21	12/10/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:10
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB4 1-2 Dup	**Units:**	ug/Kg
Lab Code:	R1911945-010	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	380 U	380	110	1	12/18/19 15:21	12/10/19	
Chrysene	380 U	380	140	1	12/18/19 15:21	12/10/19	
Di-n-butyl Phthalate	380 U	380	120	1	12/18/19 15:21	12/10/19	
Di-n-octyl Phthalate	380 U	380	120	1	12/18/19 15:21	12/10/19	
Dibenz(a,h)anthracene	380 U	380	120	1	12/18/19 15:21	12/10/19	
Dibenzofuran	380 U	380	76	1	12/18/19 15:21	12/10/19	
Diethyl Phthalate	380 U	380	82	1	12/18/19 15:21	12/10/19	
Dimethyl Phthalate	380 U	380	86	1	12/18/19 15:21	12/10/19	
Fluoranthene	380 U	380	140	1	12/18/19 15:21	12/10/19	
Fluorene	380 U	380	88	1	12/18/19 15:21	12/10/19	
Hexachlorobenzene	380 U	380	120	1	12/18/19 15:21	12/10/19	
Hexachlorobutadiene	380 U	380	93	1	12/18/19 15:21	12/10/19	
Hexachlorocyclopentadiene	380 U	380	84	1	12/18/19 15:21	12/10/19	
Hexachloroethane	380 U	380	99	1	12/18/19 15:21	12/10/19	
Indeno(1,2,3-cd)pyrene	380 U	380	130	1	12/18/19 15:21	12/10/19	
Isophorone	380 U	380	110	1	12/18/19 15:21	12/10/19	
N-Nitrosodi-n-propylamine	380 U	380	110	1	12/18/19 15:21	12/10/19	
N-Nitrosodiphenylamine	380 U	380	260	1	12/18/19 15:21	12/10/19	
Naphthalene	380 U	380	99	1	12/18/19 15:21	12/10/19	
Nitrobenzene	380 U	380	99	1	12/18/19 15:21	12/10/19	
Pentachlorophenol (PCP)	2000 U	2000	130	1	12/18/19 15:21	12/10/19	
Phenanthrene	380 U	380	120	1	12/18/19 15:21	12/10/19	
Phenol	380 U	380	91	1	12/18/19 15:21	12/10/19	
Pyrene	380 U	380	160	1	12/18/19 15:21	12/10/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	63	10 - 109	12/18/19 15:21	
2-Fluorobiphenyl	39	10 - 102	12/18/19 15:21	
2-Fluorophenol	33	10 - 88	12/18/19 15:21	
Nitrobenzene-d5	32	10 - 95	12/18/19 15:21	
Phenol-d6	36	10 - 145	12/18/19 15:21	
Terphenyl-d14	83	10 - 106	12/18/19 15:21	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	13.98	180	J
	unknown	3.18	1100	J

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:10
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB4 16-18	**Units:**	ug/Kg
Lab Code:	R1911945-011	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	410 U	410	97	1	12/18/19 00:13	12/10/19	
2,3,4,6-Tetrachlorophenol	410 U	410	86	1	12/18/19 00:13	12/10/19	
2,4,5-Trichlorophenol	410 U	410	350	1	12/18/19 00:13	12/10/19	
2,4,6-Trichlorophenol	410 U	410	72	1	12/18/19 00:13	12/10/19	
2,4-Dichlorophenol	410 U	410	87	1	12/18/19 00:13	12/10/19	
2,4-Dimethylphenol	410 U	410	89	1	12/18/19 00:13	12/10/19	
2,4-Dinitrophenol	2100 U	2100	150	1	12/18/19 00:13	12/10/19	
2,4-Dinitrotoluene	410 U	410	170	1	12/18/19 00:13	12/10/19	
2,6-Dinitrotoluene	410 U	410	120	1	12/18/19 00:13	12/10/19	
2-Chloronaphthalene	410 U	410	98	1	12/18/19 00:13	12/10/19	
2-Chlorophenol	410 U	410	100	1	12/18/19 00:13	12/10/19	
2-Methylnaphthalene	410 U	410	89	1	12/18/19 00:13	12/10/19	
2-Methylphenol	410 U	410	88	1	12/18/19 00:13	12/10/19	
2-Nitroaniline	2100 U	2100	130	1	12/18/19 00:13	12/10/19	
2-Nitrophenol	410 U	410	120	1	12/18/19 00:13	12/10/19	
3,3'-Dichlorobenzidine	410 U	410	86	1	12/18/19 00:13	12/10/19	
3- and 4-Methylphenol Coelution	410 U	410	78	1	12/18/19 00:13	12/10/19	
3-Nitroaniline	2100 U	2100	87	1	12/18/19 00:13	12/10/19	
4,6-Dinitro-2-methylphenol	2100 U	2100	180	1	12/18/19 00:13	12/10/19	
4-Bromophenyl Phenyl Ether	410 U	410	150	1	12/18/19 00:13	12/10/19	
4-Chloro-3-methylphenol	410 U	410	89	1	12/18/19 00:13	12/10/19	
4-Chloroaniline	410 U	410	97	1	12/18/19 00:13	12/10/19	
4-Chlorophenyl Phenyl Ether	410 U	410	98	1	12/18/19 00:13	12/10/19	
4-Nitroaniline	2100 U	2100	87	1	12/18/19 00:13	12/10/19	
4-Nitrophenol	2100 U	2100	140	1	12/18/19 00:13	12/10/19	
Acenaphthene	410 U	410	92	1	12/18/19 00:13	12/10/19	
Acenaphthylene	410 U	410	110	1	12/18/19 00:13	12/10/19	
Acetophenone	410 U	410	93	1	12/18/19 00:13	12/10/19	
Anthracene	410 U	410	120	1	12/18/19 00:13	12/10/19	
Atrazine	410 U	410	170	1	12/18/19 00:13	12/10/19	
Benz(a)anthracene	410 U	410	120	1	12/18/19 00:13	12/10/19	
Benzaldehyde	2100 U	2100	81	1	12/18/19 00:13	12/10/19	
Benzo(a)pyrene	410 U	410	150	1	12/18/19 00:13	12/10/19	
Benzo(b)fluoranthene	410 U	410	140	1	12/18/19 00:13	12/10/19	
Benzo(g,h,i)perylene	410 U	410	110	1	12/18/19 00:13	12/10/19	
Benzo(k)fluoranthene	410 U	410	150	1	12/18/19 00:13	12/10/19	
Biphenyl	410 U	410	100	1	12/18/19 00:13	12/10/19	
2,2'-Oxybis(1-chloropropane)	410 U	410	170	1	12/18/19 00:13	12/10/19	
Bis(2-chloroethoxy)methane	410 U	410	110	1	12/18/19 00:13	12/10/19	
Bis(2-chloroethyl) Ether	410 U	410	110	1	12/18/19 00:13	12/10/19	
Bis(2-ethylhexyl) Phthalate	620 U	620	110	1	12/18/19 00:13	12/10/19	
Butyl Benzyl Phthalate	410 U	410	110	1	12/18/19 00:13	12/10/19	
Caprolactam	410 U	410	110	1	12/18/19 00:13	12/10/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:10
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB4 16-18	**Units:**	ug/Kg
Lab Code:	R1911945-011	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	410 U	410	120	1	12/18/19 00:13	12/10/19	
Chrysene	410 U	410	150	1	12/18/19 00:13	12/10/19	
Di-n-butyl Phthalate	410 U	410	130	1	12/18/19 00:13	12/10/19	
Di-n-octyl Phthalate	410 U	410	120	1	12/18/19 00:13	12/10/19	
Dibenz(a,h)anthracene	410 U	410	130	1	12/18/19 00:13	12/10/19	
Dibenzofuran	410 U	410	81	1	12/18/19 00:13	12/10/19	
Diethyl Phthalate	410 U	410	87	1	12/18/19 00:13	12/10/19	
Dimethyl Phthalate	410 U	410	92	1	12/18/19 00:13	12/10/19	
Fluoranthene	410 U	410	150	1	12/18/19 00:13	12/10/19	
Fluorene	410 U	410	94	1	12/18/19 00:13	12/10/19	
Hexachlorobenzene	410 U	410	130	1	12/18/19 00:13	12/10/19	
Hexachlorobutadiene	410 U	410	99	1	12/18/19 00:13	12/10/19	
Hexachlorocyclopentadiene	410 U	410	89	1	12/18/19 00:13	12/10/19	
Hexachloroethane	410 U	410	110	1	12/18/19 00:13	12/10/19	
Indeno(1,2,3-cd)pyrene	410 U	410	140	1	12/18/19 00:13	12/10/19	
Isophorone	410 U	410	120	1	12/18/19 00:13	12/10/19	
N-Nitrosodi-n-propylamine	410 U	410	110	1	12/18/19 00:13	12/10/19	
N-Nitrosodiphenylamine	410 U	410	280	1	12/18/19 00:13	12/10/19	
Naphthalene	410 U	410	110	1	12/18/19 00:13	12/10/19	
Nitrobenzene	410 U	410	110	1	12/18/19 00:13	12/10/19	
Pentachlorophenol (PCP)	2100 U	2100	140	1	12/18/19 00:13	12/10/19	
Phenanthrene	410 U	410	120	1	12/18/19 00:13	12/10/19	
Phenol	410 U	410	97	1	12/18/19 00:13	12/10/19	
Pyrene	410 U	410	170	1	12/18/19 00:13	12/10/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	64	10 - 109	12/18/19 00:13	
2-Fluorobiphenyl	37	10 - 102	12/18/19 00:13	
2-Fluorophenol	40	10 - 88	12/18/19 00:13	
Nitrobenzene-d5	39	10 - 95	12/18/19 00:13	
Phenol-d6	40	10 - 145	12/18/19 00:13	
Terphenyl-d14	82	10 - 106	12/18/19 00:13	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	3.18	930	J
	unknown	6.08	180	J

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:35
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB5 3-5	**Units:**	ug/Kg
Lab Code:	R1911945-012	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	380 U	380	90	1	12/18/19 00:40	12/10/19	
2,3,4,6-Tetrachlorophenol	380 U	380	80	1	12/18/19 00:40	12/10/19	
2,4,5-Trichlorophenol	380 U	380	330	1	12/18/19 00:40	12/10/19	
2,4,6-Trichlorophenol	380 U	380	67	1	12/18/19 00:40	12/10/19	
2,4-Dichlorophenol	380 U	380	81	1	12/18/19 00:40	12/10/19	
2,4-Dimethylphenol	380 U	380	84	1	12/18/19 00:40	12/10/19	
2,4-Dinitrophenol	2000 U	2000	140	1	12/18/19 00:40	12/10/19	
2,4-Dinitrotoluene	380 U	380	150	1	12/18/19 00:40	12/10/19	
2,6-Dinitrotoluene	380 U	380	120	1	12/18/19 00:40	12/10/19	
2-Chloronaphthalene	380 U	380	92	1	12/18/19 00:40	12/10/19	
2-Chlorophenol	380 U	380	94	1	12/18/19 00:40	12/10/19	
2-Methylnaphthalene	380 U	380	84	1	12/18/19 00:40	12/10/19	
2-Methylphenol	380 U	380	82	1	12/18/19 00:40	12/10/19	
2-Nitroaniline	2000 U	2000	120	1	12/18/19 00:40	12/10/19	
2-Nitrophenol	380 U	380	110	1	12/18/19 00:40	12/10/19	
3,3'-Dichlorobenzidine	380 U	380	80	1	12/18/19 00:40	12/10/19	
3- and 4-Methylphenol Coelution	380 U	380	73	1	12/18/19 00:40	12/10/19	
3-Nitroaniline	2000 U	2000	81	1	12/18/19 00:40	12/10/19	
4,6-Dinitro-2-methylphenol	2000 U	2000	170	1	12/18/19 00:40	12/10/19	
4-Bromophenyl Phenyl Ether	380 U	380	140	1	12/18/19 00:40	12/10/19	
4-Chloro-3-methylphenol	380 U	380	84	1	12/18/19 00:40	12/10/19	
4-Chloroaniline	380 U	380	90	1	12/18/19 00:40	12/10/19	
4-Chlorophenyl Phenyl Ether	380 U	380	92	1	12/18/19 00:40	12/10/19	
4-Nitroaniline	2000 U	2000	81	1	12/18/19 00:40	12/10/19	
4-Nitrophenol	2000 U	2000	130	1	12/18/19 00:40	12/10/19	
Acenaphthene	380 U	380	86	1	12/18/19 00:40	12/10/19	
Acenaphthylene	380 U	380	110	1	12/18/19 00:40	12/10/19	
Acetophenone	380 U	380	87	1	12/18/19 00:40	12/10/19	
Anthracene	380 U	380	110	1	12/18/19 00:40	12/10/19	
Atrazine	380 U	380	150	1	12/18/19 00:40	12/10/19	
Benz(a)anthracene	380 U	380	120	1	12/18/19 00:40	12/10/19	
Benzaldehyde	2000 U	2000	75	1	12/18/19 00:40	12/10/19	
Benzo(a)pyrene	380 U	380	140	1	12/18/19 00:40	12/10/19	
Benzo(b)fluoranthene	**160 J**	380	130	1	12/18/19 00:40	12/10/19	
Benzo(g,h,i)perylene	380 U	380	110	1	12/18/19 00:40	12/10/19	
Benzo(k)fluoranthene	380 U	380	140	1	12/18/19 00:40	12/10/19	
Biphenyl	380 U	380	94	1	12/18/19 00:40	12/10/19	
2,2'-Oxybis(1-chloropropane)	380 U	380	150	1	12/18/19 00:40	12/10/19	
Bis(2-chloroethoxy)methane	380 U	380	110	1	12/18/19 00:40	12/10/19	
Bis(2-chloroethyl) Ether	380 U	380	100	1	12/18/19 00:40	12/10/19	
Bis(2-ethylhexyl) Phthalate	**140 J**	580	110	1	12/18/19 00:40	12/10/19	
Butyl Benzyl Phthalate	380 U	380	95	1	12/18/19 00:40	12/10/19	
Caprolactam	380 U	380	100	1	12/18/19 00:40	12/10/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:35
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB5 3-5	**Units:**	ug/Kg
Lab Code:	R1911945-012	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	380 U	380	110	1	12/18/19 00:40	12/10/19	
Chrysene	380 U	380	140	1	12/18/19 00:40	12/10/19	
Di-n-butyl Phthalate	380 U	380	120	1	12/18/19 00:40	12/10/19	
Di-n-octyl Phthalate	380 U	380	120	1	12/18/19 00:40	12/10/19	
Dibenz(a,h)anthracene	380 U	380	120	1	12/18/19 00:40	12/10/19	
Dibenzofuran	380 U	380	75	1	12/18/19 00:40	12/10/19	
Diethyl Phthalate	380 U	380	81	1	12/18/19 00:40	12/10/19	
Dimethyl Phthalate	380 U	380	86	1	12/18/19 00:40	12/10/19	
Fluoranthene	**170 J**	380	140	1	12/18/19 00:40	12/10/19	
Fluorene	380 U	380	88	1	12/18/19 00:40	12/10/19	
Hexachlorobenzene	380 U	380	120	1	12/18/19 00:40	12/10/19	
Hexachlorobutadiene	380 U	380	93	1	12/18/19 00:40	12/10/19	
Hexachlorocyclopentadiene	380 U	380	84	1	12/18/19 00:40	12/10/19	
Hexachloroethane	380 U	380	99	1	12/18/19 00:40	12/10/19	
Indeno(1,2,3-cd)pyrene	380 U	380	130	1	12/18/19 00:40	12/10/19	
Isophorone	380 U	380	110	1	12/18/19 00:40	12/10/19	
N-Nitrosodi-n-propylamine	380 U	380	110	1	12/18/19 00:40	12/10/19	
N-Nitrosodiphenylamine	380 U	380	260	1	12/18/19 00:40	12/10/19	
Naphthalene	380 U	380	99	1	12/18/19 00:40	12/10/19	
Nitrobenzene	380 U	380	99	1	12/18/19 00:40	12/10/19	
Pentachlorophenol (PCP)	2000 U	2000	130	1	12/18/19 00:40	12/10/19	
Phenanthrene	380 U	380	120	1	12/18/19 00:40	12/10/19	
Phenol	380 U	380	90	1	12/18/19 00:40	12/10/19	
Pyrene	**190 J**	380	150	1	12/18/19 00:40	12/10/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	75	10 - 109	12/18/19 00:40	
2-Fluorobiphenyl	47	10 - 102	12/18/19 00:40	
2-Fluorophenol	47	10 - 88	12/18/19 00:40	
Nitrobenzene-d5	47	10 - 95	12/18/19 00:40	
Phenol-d6	47	10 - 145	12/18/19 00:40	
Terphenyl-d14	88	10 - 106	12/18/19 00:40	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	10.39	220	J
	unknown hydrocarbon	10.84	250	J
1000351-89-1	Octatriacontyl pentafluoropropiona	11.87	630	JN
1000309-38-1	Oxalic acid, isobutyl hexadecyl es	13.13	660	JN
	unknown hydrocarbon	14.58	270	J
	unknown hydrocarbon	16.11	430	J

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:35
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB5 3-5	**Units:**	ug/Kg
Lab Code:	R1911945-012	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	16.25	160	J
	unknown	3.18	2900	J
	unknown hydrocarbon	8.32	230	J
	unknown hydrocarbon	9.59	160	J
	unknown	9.98	170	J

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:42
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB5 7-8	**Units:**	ug/Kg
Lab Code:	R1911945-013	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	390	U	390	94	1	12/18/19 16:47	12/10/19	
2,3,4,6-Tetrachlorophenol	390	U	390	83	1	12/18/19 16:47	12/10/19	
2,4,5-Trichlorophenol	390	U	390	340	1	12/18/19 16:47	12/10/19	
2,4,6-Trichlorophenol	390	U	390	70	1	12/18/19 16:47	12/10/19	
2,4-Dichlorophenol	390	U	390	84	1	12/18/19 16:47	12/10/19	
2,4-Dimethylphenol	390	U	390	87	1	12/18/19 16:47	12/10/19	
2,4-Dinitrophenol	2000	U	2000	150	1	12/18/19 16:47	12/10/19	
2,4-Dinitrotoluene	390	U	390	160	1	12/18/19 16:47	12/10/19	
2,6-Dinitrotoluene	390	U	390	120	1	12/18/19 16:47	12/10/19	
2-Chloronaphthalene	390	U	390	95	1	12/18/19 16:47	12/10/19	
2-Chlorophenol	390	U	390	97	1	12/18/19 16:47	12/10/19	
2-Methylnaphthalene	**160**	**J**	390	87	1	12/18/19 16:47	12/10/19	
2-Methylphenol	390	U	390	85	1	12/18/19 16:47	12/10/19	
2-Nitroaniline	2000	U	2000	120	1	12/18/19 16:47	12/10/19	
2-Nitrophenol	390	U	390	120	1	12/18/19 16:47	12/10/19	
3,3'-Dichlorobenzidine	390	U	390	83	1	12/18/19 16:47	12/10/19	
3- and 4-Methylphenol Coelution	390	U	390	76	1	12/18/19 16:47	12/10/19	
3-Nitroaniline	2000	U	2000	84	1	12/18/19 16:47	12/10/19	
4,6-Dinitro-2-methylphenol	2000	U	2000	170	1	12/18/19 16:47	12/10/19	
4-Bromophenyl Phenyl Ether	390	U	390	150	1	12/18/19 16:47	12/10/19	
4-Chloro-3-methylphenol	390	U	390	87	1	12/18/19 16:47	12/10/19	
4-Chloroaniline	390	U	390	94	1	12/18/19 16:47	12/10/19	
4-Chlorophenyl Phenyl Ether	390	U	390	95	1	12/18/19 16:47	12/10/19	
4-Nitroaniline	2000	U	2000	84	1	12/18/19 16:47	12/10/19	
4-Nitrophenol	2000	U	2000	140	1	12/18/19 16:47	12/10/19	
Acenaphthene	390	U	390	89	1	12/18/19 16:47	12/10/19	
Acenaphthylene	390	U	390	110	1	12/18/19 16:47	12/10/19	
Acetophenone	390	U	390	90	1	12/18/19 16:47	12/10/19	
Anthracene	390	U	390	110	1	12/18/19 16:47	12/10/19	
Atrazine	390	U	390	160	1	12/18/19 16:47	12/10/19	
Benz(a)anthracene	390	U	390	120	1	12/18/19 16:47	12/10/19	
Benzaldehyde	2000	U	2000	78	1	12/18/19 16:47	12/10/19	
Benzo(a)pyrene	390	U	390	150	1	12/18/19 16:47	12/10/19	
Benzo(b)fluoranthene	390	U	390	140	1	12/18/19 16:47	12/10/19	
Benzo(g,h,i)perylene	390	U	390	110	1	12/18/19 16:47	12/10/19	
Benzo(k)fluoranthene	390	U	390	150	1	12/18/19 16:47	12/10/19	
Biphenyl	390	U	390	97	1	12/18/19 16:47	12/10/19	
2,2'-Oxybis(1-chloropropane)	390	U	390	160	1	12/18/19 16:47	12/10/19	
Bis(2-chloroethoxy)methane	390	U	390	110	1	12/18/19 16:47	12/10/19	
Bis(2-chloroethyl) Ether	390	U	390	110	1	12/18/19 16:47	12/10/19	
Bis(2-ethylhexyl) Phthalate	**6000**	**D**	1200	220	2	12/23/19 12:17	12/10/19	
Butyl Benzyl Phthalate	390	U	390	99	1	12/18/19 16:47	12/10/19	
Caprolactam	390	U	390	110	1	12/18/19 16:47	12/10/19	

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:42
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB5 7-8	**Units:**	ug/Kg
Lab Code:	R1911945-013	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	390	U	390	120	1	12/18/19 16:47	12/10/19	
Chrysene	390	U	390	150	1	12/18/19 16:47	12/10/19	
Di-n-butyl Phthalate	390	U	390	120	1	12/18/19 16:47	12/10/19	
Di-n-octyl Phthalate	390	U	390	120	1	12/18/19 16:47	12/10/19	
Dibenz(a,h)anthracene	390	U	390	120	1	12/18/19 16:47	12/10/19	
Dibenzofuran	390	U	390	78	1	12/18/19 16:47	12/10/19	
Diethyl Phthalate	390	U	390	84	1	12/18/19 16:47	12/10/19	
Dimethyl Phthalate	390	U	390	89	1	12/18/19 16:47	12/10/19	
Fluoranthene	**180**	**J**	390	150	1	12/18/19 16:47	12/10/19	
Fluorene	390	U	390	91	1	12/18/19 16:47	12/10/19	
Hexachlorobenzene	390	U	390	120	1	12/18/19 16:47	12/10/19	
Hexachlorobutadiene	390	U	390	96	1	12/18/19 16:47	12/10/19	
Hexachlorocyclopentadiene	390	U	390	87	1	12/18/19 16:47	12/10/19	
Hexachloroethane	390	U	390	110	1	12/18/19 16:47	12/10/19	
Indeno(1,2,3-cd)pyrene	390	U	390	140	1	12/18/19 16:47	12/10/19	
Isophorone	390	U	390	110	1	12/18/19 16:47	12/10/19	
N-Nitrosodi-n-propylamine	390	U	390	110	1	12/18/19 16:47	12/10/19	
N-Nitrosodiphenylamine	390	U	390	270	1	12/18/19 16:47	12/10/19	
Naphthalene	**540**		390	110	1	12/18/19 16:47	12/10/19	
Nitrobenzene	390	U	390	110	1	12/18/19 16:47	12/10/19	
Pentachlorophenol (PCP)	2000	U	2000	140	1	12/18/19 16:47	12/10/19	
Phenanthrene	**250**	**J**	390	120	1	12/18/19 16:47	12/10/19	
Phenol	390	U	390	94	1	12/18/19 16:47	12/10/19	
Pyrene	390	U	390	160	1	12/18/19 16:47	12/10/19	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	10.13	850	J
000080-05-7	Phenol, 4,4'-(1-methylethylidene)b	10.40	990	JN
000563-04-2	Phosphoric acid, tris(3-methylphen	12.84	1100	JN
000078-32-0	Phosphoric acid, tris(4-methylphenyl) ester	13.05	2000	JN
	unknown	13.26	1200	J
	unknown	13.54	830	J
000526-73-8	Benzene, 1,2,3-trimethyl-	4.39	1700	JN
	unknown	4.78	990	J
000934-74-7	Benzene, 1-ethyl-3,5-dimethyl-	4.82	1200	JN
	unknown	4.88	930	J
	unknown	5.11	840	J
000488-23-3	Benzene, 1,2,3,4-tetramethyl-	5.23	860	JN
000095-93-2	Benzene, 1,2,4,5-tetramethyl-	5.25	1200	JN

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:42
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB5 7-8	**Units:**	ug/Kg
Lab Code:	R1911945-013	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
000527-84-4	Benzene, 1-methyl-2-(1-methylethyl)-	5.46	980	JN
	unknown	8.39	1200	J
	unknown	8.43	2100	J
	unknown	8.46	1600	J
	unknown	8.52	1100	J
	unknown	8.56	1300	J
	unknown	8.60	1300	J

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	53	10 - 109	12/18/19 16:47	
2-Fluorobiphenyl	42	10 - 102	12/18/19 16:47	
2-Fluorophenol	40	10 - 88	12/18/19 16:47	
Nitrobenzene-d5	45	10 - 95	12/18/19 16:47	
Phenol-d6	41	10 - 145	12/18/19 16:47	
Terphenyl-d14	54	10 - 106	12/18/19 16:47	

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:52
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB5 12-14	**Units:**	ug/Kg
Lab Code:	R1911945-014	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	390 U	390	93	1	12/18/19 17:14	12/10/19	
2,3,4,6-Tetrachlorophenol	390 U	390	82	1	12/18/19 17:14	12/10/19	
2,4,5-Trichlorophenol	390 U	390	340	1	12/18/19 17:14	12/10/19	
2,4,6-Trichlorophenol	390 U	390	69	1	12/18/19 17:14	12/10/19	
2,4-Dichlorophenol	390 U	390	83	1	12/18/19 17:14	12/10/19	
2,4-Dimethylphenol	390 U	390	85	1	12/18/19 17:14	12/10/19	
2,4-Dinitrophenol	2000 U	2000	150	1	12/18/19 17:14	12/10/19	
2,4-Dinitrotoluene	390 U	390	160	1	12/18/19 17:14	12/10/19	
2,6-Dinitrotoluene	390 U	390	120	1	12/18/19 17:14	12/10/19	
2-Chloronaphthalene	390 U	390	94	1	12/18/19 17:14	12/10/19	
2-Chlorophenol	390 U	390	96	1	12/18/19 17:14	12/10/19	
2-Methylnaphthalene	390 U	390	85	1	12/18/19 17:14	12/10/19	
2-Methylphenol	390 U	390	84	1	12/18/19 17:14	12/10/19	
2-Nitroaniline	2000 U	2000	120	1	12/18/19 17:14	12/10/19	
2-Nitrophenol	390 U	390	120	1	12/18/19 17:14	12/10/19	
3,3'-Dichlorobenzidine	390 U	390	82	1	12/18/19 17:14	12/10/19	
3- and 4-Methylphenol Coelution	390 U	390	75	1	12/18/19 17:14	12/10/19	
3-Nitroaniline	2000 U	2000	83	1	12/18/19 17:14	12/10/19	
4,6-Dinitro-2-methylphenol	2000 U	2000	170	1	12/18/19 17:14	12/10/19	
4-Bromophenyl Phenyl Ether	390 U	390	150	1	12/18/19 17:14	12/10/19	
4-Chloro-3-methylphenol	390 U	390	85	1	12/18/19 17:14	12/10/19	
4-Chloroaniline	390 U	390	93	1	12/18/19 17:14	12/10/19	
4-Chlorophenyl Phenyl Ether	390 U	390	94	1	12/18/19 17:14	12/10/19	
4-Nitroaniline	2000 U	2000	83	1	12/18/19 17:14	12/10/19	
4-Nitrophenol	2000 U	2000	130	1	12/18/19 17:14	12/10/19	
Acenaphthene	390 U	390	88	1	12/18/19 17:14	12/10/19	
Acenaphthylene	390 U	390	110	1	12/18/19 17:14	12/10/19	
Acetophenone	390 U	390	89	1	12/18/19 17:14	12/10/19	
Anthracene	390 U	390	110	1	12/18/19 17:14	12/10/19	
Atrazine	390 U	390	160	1	12/18/19 17:14	12/10/19	
Benz(a)anthracene	390 U	390	120	1	12/18/19 17:14	12/10/19	
Benzaldehyde	2000 U	2000	77	1	12/18/19 17:14	12/10/19	
Benzo(a)pyrene	390 U	390	150	1	12/18/19 17:14	12/10/19	
Benzo(b)fluoranthene	390 U	390	130	1	12/18/19 17:14	12/10/19	
Benzo(g,h,i)perylene	390 U	390	110	1	12/18/19 17:14	12/10/19	
Benzo(k)fluoranthene	390 U	390	150	1	12/18/19 17:14	12/10/19	
Biphenyl	390 U	390	96	1	12/18/19 17:14	12/10/19	
2,2'-Oxybis(1-chloropropane)	390 U	390	160	1	12/18/19 17:14	12/10/19	
Bis(2-chloroethoxy)methane	390 U	390	110	1	12/18/19 17:14	12/10/19	
Bis(2-chloroethyl) Ether	390 U	390	110	1	12/18/19 17:14	12/10/19	
Bis(2-ethylhexyl) Phthalate	**190 J**	590	110	1	12/18/19 17:14	12/10/19	
Butyl Benzyl Phthalate	390 U	390	97	1	12/18/19 17:14	12/10/19	
Caprolactam	390 U	390	110	1	12/18/19 17:14	12/10/19	

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:52
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB5 12-14	**Units:**	ug/Kg
Lab Code:	R1911945-014	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	390 U	390	120	1	12/18/19 17:14	12/10/19	
Chrysene	390 U	390	150	1	12/18/19 17:14	12/10/19	
Di-n-butyl Phthalate	**130 J**	390	120	1	12/18/19 17:14	12/10/19	
Di-n-octyl Phthalate	390 U	390	120	1	12/18/19 17:14	12/10/19	
Dibenz(a,h)anthracene	390 U	390	120	1	12/18/19 17:14	12/10/19	
Dibenzofuran	390 U	390	77	1	12/18/19 17:14	12/10/19	
Diethyl Phthalate	390 U	390	83	1	12/18/19 17:14	12/10/19	
Dimethyl Phthalate	390 U	390	88	1	12/18/19 17:14	12/10/19	
Fluoranthene	390 U	390	150	1	12/18/19 17:14	12/10/19	
Fluorene	390 U	390	90	1	12/18/19 17:14	12/10/19	
Hexachlorobenzene	390 U	390	120	1	12/18/19 17:14	12/10/19	
Hexachlorobutadiene	390 U	390	95	1	12/18/19 17:14	12/10/19	
Hexachlorocyclopentadiene	390 U	390	85	1	12/18/19 17:14	12/10/19	
Hexachloroethane	390 U	390	110	1	12/18/19 17:14	12/10/19	
Indeno(1,2,3-cd)pyrene	390 U	390	130	1	12/18/19 17:14	12/10/19	
Isophorone	390 U	390	110	1	12/18/19 17:14	12/10/19	
N-Nitrosodi-n-propylamine	390 U	390	110	1	12/18/19 17:14	12/10/19	
N-Nitrosodiphenylamine	390 U	390	260	1	12/18/19 17:14	12/10/19	
Naphthalene	390 U	390	110	1	12/18/19 17:14	12/10/19	
Nitrobenzene	390 U	390	110	1	12/18/19 17:14	12/10/19	
Pentachlorophenol (PCP)	2000 U	2000	130	1	12/18/19 17:14	12/10/19	
Phenanthrene	390 U	390	120	1	12/18/19 17:14	12/10/19	
Phenol	390 U	390	93	1	12/18/19 17:14	12/10/19	
Pyrene	390 U	390	160	1	12/18/19 17:14	12/10/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	57	10 - 109	12/18/19 17:14	
2-Fluorobiphenyl	46	10 - 102	12/18/19 17:14	
2-Fluorophenol	43	10 - 88	12/18/19 17:14	
Nitrobenzene-d5	47	10 - 95	12/18/19 17:14	
Phenol-d6	45	10 - 145	12/18/19 17:14	
Terphenyl-d14	71	10 - 106	12/18/19 17:14	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	3.19	4000	J
	unknown	6.09	440	J

Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 10:40
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB2 1-2	**Units:**	ug/Kg
Lab Code:	R1911945-001	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	9.8 U	9.8	4.9	5	12/31/19 23:09	12/11/19	
4,4'-DDE	9.8 U	9.8	4.9	5	12/31/19 23:09	12/11/19	
4,4'-DDT	9.8 U	9.8	4.9	5	12/31/19 23:09	12/11/19	
Aldrin	9.8 U	9.8	4.9	5	12/31/19 23:09	12/11/19	
Dieldrin	**13**	9.8	4.9	5	12/31/19 23:09	12/11/19	
Endosulfan I	9.8 U	9.8	4.9	5	12/31/19 23:09	12/11/19	
Endosulfan II	9.8 U	9.8	4.9	5	12/31/19 23:09	12/11/19	
Endosulfan Sulfate	9.8 U	9.8	4.9	5	12/31/19 23:09	12/11/19	
Endrin	9.8 U	9.8	4.9	5	12/31/19 23:09	12/11/19	
Endrin Aldehyde	9.8 U	9.8	4.9	5	12/31/19 23:09	12/11/19	
Endrin Ketone	9.8 U	9.8	4.9	5	12/31/19 23:09	12/11/19	
Heptachlor	**9.5 J**	9.8	4.9	5	12/31/19 23:09	12/11/19	
Heptachlor Epoxide	9.8 U	9.8	4.9	5	12/31/19 23:09	12/11/19	
Methoxychlor	9.8 U	9.8	4.9	5	12/31/19 23:09	12/11/19	
Toxaphene	190 U	190	110	5	12/31/19 23:09	12/11/19	
alpha-BHC	9.8 U	9.8	4.9	5	12/31/19 23:09	12/11/19	
alpha-Chlordane	9.8 U	9.8	4.9	5	12/31/19 23:09	12/11/19	
beta-BHC	**13**	9.8	4.9	5	12/31/19 23:09	12/11/19	
delta-BHC	9.8 U	9.8	4.9	5	12/31/19 23:09	12/11/19	
gamma-BHC (Lindane)	9.8 U	9.8	4.9	5	12/31/19 23:09	12/11/19	
gamma-Chlordane	9.8 U	9.8	4.9	5	12/31/19 23:09	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	116	10 - 145	12/31/19 23:09	
Tetrachloro-m-xylene	82	10 - 123	12/31/19 23:09	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 10:50
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB2 4-6	**Units:**	ug/Kg
Lab Code:	R1911945-002	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	9.8 U	9.8	4.9	5	12/31/19 23:28	12/11/19	
4,4'-DDE	9.8 U	9.8	4.9	5	12/31/19 23:28	12/11/19	
4,4'-DDT	**19**	9.8	4.9	5	12/31/19 23:28	12/11/19	
Aldrin	9.8 U	9.8	4.9	5	12/31/19 23:28	12/11/19	
Dieldrin	**5.8 J**	9.8	4.9	5	12/31/19 23:28	12/11/19	
Endosulfan I	9.8 U	9.8	4.9	5	12/31/19 23:28	12/11/19	
Endosulfan II	9.8 U	9.8	4.9	5	12/31/19 23:28	12/11/19	
Endosulfan Sulfate	9.8 U	9.8	4.9	5	12/31/19 23:28	12/11/19	
Endrin	**13**	9.8	4.9	5	12/31/19 23:28	12/11/19	
Endrin Aldehyde	**46**	9.8	4.9	5	12/31/19 23:28	12/11/19	
Endrin Ketone	9.8 U	9.8	4.9	5	12/31/19 23:28	12/11/19	
Heptachlor	**20**	9.8	4.9	5	12/31/19 23:28	12/11/19	
Heptachlor Epoxide	9.8 U	9.8	4.9	5	12/31/19 23:28	12/11/19	
Methoxychlor	9.8 U	9.8	4.9	5	12/31/19 23:28	12/11/19	
Toxaphene	190 U	190	110	5	12/31/19 23:28	12/11/19	
alpha-BHC	9.8 U	9.8	4.9	5	12/31/19 23:28	12/11/19	
alpha-Chlordane	9.8 U	9.8	4.9	5	12/31/19 23:28	12/11/19	
beta-BHC	9.8 U	9.8	4.9	5	12/31/19 23:28	12/11/19	
delta-BHC	9.8 U	9.8	4.9	5	12/31/19 23:28	12/11/19	
gamma-BHC (Lindane)	9.8 U	9.8	4.9	5	12/31/19 23:28	12/11/19	
gamma-Chlordane	9.8 U	9.8	4.9	5	12/31/19 23:28	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	80	10 - 145	12/31/19 23:28	
Tetrachloro-m-xylene	57	10 - 123	12/31/19 23:28	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:00
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB2 15-17	**Units:**	ug/Kg
Lab Code:	R1911945-003	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	11 U	11	5.5	5	12/31/19 23:47	12/11/19	
4,4'-DDE	**10 J**	11	5.5	5	12/31/19 23:47	12/11/19	
4,4'-DDT	11 U	11	5.5	5	12/31/19 23:47	12/11/19	
Aldrin	11 U	11	5.5	5	12/31/19 23:47	12/11/19	
Dieldrin	11 U	11	5.5	5	12/31/19 23:47	12/11/19	
Endosulfan I	11 U	11	5.5	5	12/31/19 23:47	12/11/19	
Endosulfan II	11 U	11	5.5	5	12/31/19 23:47	12/11/19	
Endosulfan Sulfate	11 U	11	5.5	5	12/31/19 23:47	12/11/19	
Endrin	11 U	11	5.5	5	12/31/19 23:47	12/11/19	
Endrin Aldehyde	11 U	11	5.5	5	12/31/19 23:47	12/11/19	
Endrin Ketone	11 U	11	5.5	5	12/31/19 23:47	12/11/19	
Heptachlor	11 U	11	5.5	5	12/31/19 23:47	12/11/19	
Heptachlor Epoxide	11 U	11	5.5	5	12/31/19 23:47	12/11/19	
Methoxychlor	11 U	11	5.5	5	12/31/19 23:47	12/11/19	
Toxaphene	210 U	210	130	5	12/31/19 23:47	12/11/19	
alpha-BHC	11 U	11	5.5	5	12/31/19 23:47	12/11/19	
alpha-Chlordane	11 U	11	5.5	5	12/31/19 23:47	12/11/19	
beta-BHC	11 U	11	5.5	5	12/31/19 23:47	12/11/19	
delta-BHC	11 U	11	5.5	5	12/31/19 23:47	12/11/19	
gamma-BHC (Lindane)	11 U	11	5.5	5	12/31/19 23:47	12/11/19	
gamma-Chlordane	11 U	11	5.5	5	12/31/19 23:47	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	88	10 - 145	12/31/19 23:47	
Tetrachloro-m-xylene	69	10 - 123	12/31/19 23:47	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:20
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB3 1-2	**Units:**	ug/Kg
Lab Code:	R1911945-004	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	8.8 U	8.8	4.4	5	01/01/20 00:06	12/11/19	
4,4'-DDE	8.8 U	8.8	4.4	5	01/01/20 00:06	12/11/19	
4,4'-DDT	8.8 U	8.8	4.4	5	01/01/20 00:06	12/11/19	
Aldrin	8.8 U	8.8	4.4	5	01/01/20 00:06	12/11/19	
Dieldrin	8.8 U	8.8	4.4	5	01/01/20 00:06	12/11/19	
Endosulfan I	8.8 U	8.8	4.4	5	01/01/20 00:06	12/11/19	
Endosulfan II	8.8 U	8.8	4.4	5	01/01/20 00:06	12/11/19	
Endosulfan Sulfate	8.8 U	8.8	4.4	5	01/01/20 00:06	12/11/19	
Endrin	8.8 U	8.8	4.4	5	01/01/20 00:06	12/11/19	
Endrin Aldehyde	8.8 U	8.8	4.4	5	01/01/20 00:06	12/11/19	
Endrin Ketone	8.8 U	8.8	4.4	5	01/01/20 00:06	12/11/19	
Heptachlor	**47**	8.8	4.4	5	01/01/20 00:06	12/11/19	
Heptachlor Epoxide	8.8 U	8.8	4.4	5	01/01/20 00:06	12/11/19	
Methoxychlor	8.8 U	8.8	4.4	5	01/01/20 00:06	12/11/19	
Toxaphene	170 U	170	99	5	01/01/20 00:06	12/11/19	
alpha-BHC	8.8 U	8.8	4.4	5	01/01/20 00:06	12/11/19	
alpha-Chlordane	8.8 U	8.8	4.4	5	01/01/20 00:06	12/11/19	
beta-BHC	8.8 U	8.8	4.4	5	01/01/20 00:06	12/11/19	
delta-BHC	8.8 U	8.8	4.4	5	01/01/20 00:06	12/11/19	
gamma-BHC (Lindane)	8.8 U	8.8	4.4	5	01/01/20 00:06	12/11/19	
gamma-Chlordane	8.8 U	8.8	4.4	5	01/01/20 00:06	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	113	10 - 145	01/01/20 00:06	
Tetrachloro-m-xylene	71	10 - 123	01/01/20 00:06	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:00
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB3 4-6	**Units:**	ug/Kg
Lab Code:	R1911945-005	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	9.8 U	9.8	4.9	5	01/01/20 00:26	12/11/19	
4,4'-DDE	**140**	9.8	4.9	5	01/01/20 00:26	12/11/19	
4,4'-DDT	9.8 U	9.8	4.9	5	01/01/20 00:26	12/11/19	
Aldrin	9.8 U	9.8	4.9	5	01/01/20 00:26	12/11/19	
Dieldrin	**24**	9.8	4.9	5	01/01/20 00:26	12/11/19	
Endosulfan I	9.8 U	9.8	4.9	5	01/01/20 00:26	12/11/19	
Endosulfan II	9.8 U	9.8	4.9	5	01/01/20 00:26	12/11/19	
Endosulfan Sulfate	9.8 U	9.8	4.9	5	01/01/20 00:26	12/11/19	
Endrin	**11**	9.8	4.9	5	01/01/20 00:26	12/11/19	
Endrin Aldehyde	9.8 U	9.8	4.9	5	01/01/20 00:26	12/11/19	
Endrin Ketone	9.8 U	9.8	4.9	5	01/01/20 00:26	12/11/19	
Heptachlor	**27**	9.8	4.9	5	01/01/20 00:26	12/11/19	
Heptachlor Epoxide	9.8 U	9.8	4.9	5	01/01/20 00:26	12/11/19	
Methoxychlor	9.8 U	9.8	4.9	5	01/01/20 00:26	12/11/19	
Toxaphene	190 U	190	110	5	01/01/20 00:26	12/11/19	
alpha-BHC	9.8 U	9.8	4.9	5	01/01/20 00:26	12/11/19	
alpha-Chlordane	9.8 U	9.8	4.9	5	01/01/20 00:26	12/11/19	
beta-BHC	**30 P**	9.8	4.9	5	01/01/20 00:26	12/11/19	
delta-BHC	9.8 U	9.8	4.9	5	01/01/20 00:26	12/11/19	
gamma-BHC (Lindane)	9.8 U	9.8	4.9	5	01/01/20 00:26	12/11/19	
gamma-Chlordane	9.8 U	9.8	4.9	5	01/01/20 00:26	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	109	10 - 145	01/01/20 00:26	
Tetrachloro-m-xylene	86	10 - 123	01/01/20 00:26	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:50
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB3 10-12	**Units:**	ug/Kg
Lab Code:	R1911945-006	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	9.4 U	9.4	4.7	5	12/28/19 01:05	12/11/19	
4,4'-DDE	9.4 U	9.4	4.7	5	12/28/19 01:05	12/11/19	
4,4'-DDT	9.4 U	9.4	4.7	5	12/28/19 01:05	12/11/19	
Aldrin	9.4 U	9.4	4.7	5	12/28/19 01:05	12/11/19	
Dieldrin	9.4 U	9.4	4.7	5	12/28/19 01:05	12/11/19	
Endosulfan I	9.4 U	9.4	4.7	5	12/28/19 01:05	12/11/19	
Endosulfan II	9.4 U	9.4	4.7	5	12/28/19 01:05	12/11/19	
Endosulfan Sulfate	9.4 U	9.4	4.7	5	12/28/19 01:05	12/11/19	
Endrin	9.4 U	9.4	4.7	5	12/28/19 01:05	12/11/19	
Endrin Aldehyde	9.4 U	9.4	4.7	5	12/28/19 01:05	12/11/19	
Endrin Ketone	9.4 U	9.4	4.7	5	12/28/19 01:05	12/11/19	
Heptachlor	9.4 U	9.4	4.7	5	12/28/19 01:05	12/11/19	
Heptachlor Epoxide	9.4 U	9.4	4.7	5	12/28/19 01:05	12/11/19	
Methoxychlor	9.4 U	9.4	4.7	5	12/28/19 01:05	12/11/19	
Toxaphene	180 U	180	110	5	12/28/19 01:05	12/11/19	
alpha-BHC	9.4 U	9.4	4.7	5	12/28/19 01:05	12/11/19	
alpha-Chlordane	9.4 U	9.4	4.7	5	12/28/19 01:05	12/11/19	
beta-BHC	9.4 U	9.4	4.7	5	12/28/19 01:05	12/11/19	
delta-BHC	9.4 U	9.4	4.7	5	12/28/19 01:05	12/11/19	
gamma-BHC (Lindane)	9.4 U	9.4	4.7	5	12/28/19 01:05	12/11/19	
gamma-Chlordane	9.4 U	9.4	4.7	5	12/28/19 01:05	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	81	10 - 145	12/28/19 01:05	
Tetrachloro-m-xylene	77	10 - 123	12/28/19 01:05	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:10
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB4 1-2	**Units:**	ug/Kg
Lab Code:	R1911945-009	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	2.0 U	2.0	0.97	1	01/02/20 17:17	12/17/19	
4,4'-DDE	2.0 U	2.0	0.97	1	01/02/20 17:17	12/17/19	
4,4'-DDT	2.0 U	2.0	0.97	1	01/02/20 17:17	12/17/19	
Aldrin	2.0 U	2.0	0.97	1	01/02/20 17:17	12/17/19	
Dieldrin	2.0 U	2.0	0.97	1	01/02/20 17:17	12/17/19	
Endosulfan I	2.0 U	2.0	0.97	1	01/02/20 17:17	12/17/19	
Endosulfan II	2.0 U	2.0	0.97	1	01/02/20 17:17	12/17/19	
Endosulfan Sulfate	2.0 U	2.0	0.97	1	01/02/20 17:17	12/17/19	
Endrin	2.0 U	2.0	0.97	1	01/02/20 17:17	12/17/19	
Endrin Aldehyde	2.0 U	2.0	0.97	1	01/02/20 17:17	12/17/19	
Endrin Ketone	2.0 U	2.0	0.97	1	01/02/20 17:17	12/17/19	
Heptachlor	2.0 U	2.0	0.97	1	01/02/20 17:17	12/17/19	
Heptachlor Epoxide	2.0 U	2.0	0.97	1	01/02/20 17:17	12/17/19	
Methoxychlor	2.0 U	2.0	0.97	1	01/02/20 17:17	12/17/19	
Toxaphene	38 U	38	22	1	01/02/20 17:17	12/17/19	
alpha-BHC	2.0 U	2.0	0.97	1	01/02/20 17:17	12/17/19	
alpha-Chlordane	2.0 U	2.0	0.97	1	01/02/20 17:17	12/17/19	
beta-BHC	2.0 U	2.0	0.97	1	01/02/20 17:17	12/17/19	
delta-BHC	2.0 U	2.0	0.97	1	01/02/20 17:17	12/17/19	
gamma-BHC (Lindane)	2.0 U	2.0	0.97	1	01/02/20 17:17	12/17/19	
gamma-Chlordane	2.0 U	2.0	0.97	1	01/02/20 17:17	12/17/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	19	10 - 145	01/02/20 17:17	
Tetrachloro-m-xylene	16	10 - 123	01/02/20 17:17	

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:10
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB4 1-2 Dup	**Units:**	ug/Kg
Lab Code:	R1911945-010	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	9.9 U	9.9	5.0	5	12/28/19 01:24	12/11/19	
4,4'-DDE	9.9 U	9.9	5.0	5	12/28/19 01:24	12/11/19	
4,4'-DDT	9.9 U	9.9	5.0	5	12/28/19 01:24	12/11/19	
Aldrin	9.9 U	9.9	5.0	5	12/28/19 01:24	12/11/19	
Dieldrin	9.9 U	9.9	5.0	5	12/28/19 01:24	12/11/19	
Endosulfan I	9.9 U	9.9	5.0	5	12/28/19 01:24	12/11/19	
Endosulfan II	9.9 U	9.9	5.0	5	12/28/19 01:24	12/11/19	
Endosulfan Sulfate	9.9 U	9.9	5.0	5	12/28/19 01:24	12/11/19	
Endrin	9.9 U	9.9	5.0	5	12/28/19 01:24	12/11/19	
Endrin Aldehyde	9.9 U	9.9	5.0	5	12/28/19 01:24	12/11/19	
Endrin Ketone	9.9 U	9.9	5.0	5	12/28/19 01:24	12/11/19	
Heptachlor	9.9 U	9.9	5.0	5	12/28/19 01:24	12/11/19	
Heptachlor Epoxide	9.9 U	9.9	5.0	5	12/28/19 01:24	12/11/19	
Methoxychlor	9.9 U	9.9	5.0	5	12/28/19 01:24	12/11/19	
Toxaphene	190 U	190	120	5	12/28/19 01:24	12/11/19	
alpha-BHC	9.9 U	9.9	5.0	5	12/28/19 01:24	12/11/19	
alpha-Chlordane	9.9 U	9.9	5.0	5	12/28/19 01:24	12/11/19	
beta-BHC	9.9 U	9.9	5.0	5	12/28/19 01:24	12/11/19	
delta-BHC	9.9 U	9.9	5.0	5	12/28/19 01:24	12/11/19	
gamma-BHC (Lindane)	9.9 U	9.9	5.0	5	12/28/19 01:24	12/11/19	
gamma-Chlordane	9.9 U	9.9	5.0	5	12/28/19 01:24	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	70	10 - 145	12/28/19 01:24	
Tetrachloro-m-xylene	40	10 - 123	12/28/19 01:24	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:10
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB4 16-18	**Units:**	ug/Kg
Lab Code:	R1911945-011	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	10 U	10	5.1	5	12/28/19 02:22	12/11/19	
4,4'-DDE	10 U	10	5.1	5	12/28/19 02:22	12/11/19	
4,4'-DDT	10 U	10	5.1	5	12/28/19 02:22	12/11/19	
Aldrin	10 U	10	5.1	5	12/28/19 02:22	12/11/19	
Dieldrin	10 U	10	5.1	5	12/28/19 02:22	12/11/19	
Endosulfan I	10 U	10	5.1	5	12/28/19 02:22	12/11/19	
Endosulfan II	10 U	10	5.1	5	12/28/19 02:22	12/11/19	
Endosulfan Sulfate	10 U	10	5.1	5	12/28/19 02:22	12/11/19	
Endrin	10 U	10	5.1	5	12/28/19 02:22	12/11/19	
Endrin Aldehyde	10 U	10	5.1	5	12/28/19 02:22	12/11/19	
Endrin Ketone	10 U	10	5.1	5	12/28/19 02:22	12/11/19	
Heptachlor	10 U	10	5.1	5	12/28/19 02:22	12/11/19	
Heptachlor Epoxide	10 U	10	5.1	5	12/28/19 02:22	12/11/19	
Methoxychlor	10 U	10	5.1	5	12/28/19 02:22	12/11/19	
Toxaphene	200 U	200	120	5	12/28/19 02:22	12/11/19	
alpha-BHC	10 U	10	5.1	5	12/28/19 02:22	12/11/19	
alpha-Chlordane	10 U	10	5.1	5	12/28/19 02:22	12/11/19	
beta-BHC	10 U	10	5.1	5	12/28/19 02:22	12/11/19	
delta-BHC	10 U	10	5.1	5	12/28/19 02:22	12/11/19	
gamma-BHC (Lindane)	10 U	10	5.1	5	12/28/19 02:22	12/11/19	
gamma-Chlordane	10 U	10	5.1	5	12/28/19 02:22	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	80	10 - 145	12/28/19 02:22	
Tetrachloro-m-xylene	43	10 - 123	12/28/19 02:22	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:35
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB5 3-5	**Units:**	ug/Kg
Lab Code:	R1911945-012	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	9.8 U	9.8	4.9	5	12/31/19 20:55	12/11/19	
4,4'-DDE	9.8 U	9.8	4.9	5	12/31/19 20:55	12/11/19	
4,4'-DDT	9.8 U	9.8	4.9	5	12/31/19 20:55	12/11/19	
Aldrin	9.8 U	9.8	4.9	5	12/31/19 20:55	12/11/19	
Dieldrin	9.8 U	9.8	4.9	5	12/31/19 20:55	12/11/19	
Endosulfan I	9.8 U	9.8	4.9	5	12/31/19 20:55	12/11/19	
Endosulfan II	9.8 U	9.8	4.9	5	12/31/19 20:55	12/11/19	
Endosulfan Sulfate	9.8 U	9.8	4.9	5	12/31/19 20:55	12/11/19	
Endrin	9.8 U	9.8	4.9	5	12/31/19 20:55	12/11/19	
Endrin Aldehyde	9.8 U	9.8	4.9	5	12/31/19 20:55	12/11/19	
Endrin Ketone	9.8 U	9.8	4.9	5	12/31/19 20:55	12/11/19	
Heptachlor	9.8 U	9.8	4.9	5	12/31/19 20:55	12/11/19	
Heptachlor Epoxide	9.8 U	9.8	4.9	5	12/31/19 20:55	12/11/19	
Methoxychlor	**6.0 J**	9.8	4.9	5	12/31/19 20:55	12/11/19	
Toxaphene	190 U	190	110	5	12/31/19 20:55	12/11/19	
alpha-BHC	9.8 U	9.8	4.9	5	12/31/19 20:55	12/11/19	
alpha-Chlordane	9.8 U	9.8	4.9	5	12/31/19 20:55	12/11/19	
beta-BHC	9.8 U	9.8	4.9	5	12/31/19 20:55	12/11/19	
delta-BHC	9.8 U	9.8	4.9	5	12/31/19 20:55	12/11/19	
gamma-BHC (Lindane)	9.8 U	9.8	4.9	5	12/31/19 20:55	12/11/19	
gamma-Chlordane	9.8 U	9.8	4.9	5	12/31/19 20:55	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	82	10 - 145	12/31/19 20:55	
Tetrachloro-m-xylene	60	10 - 123	12/31/19 20:55	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:42
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB5 7-8	**Units:**	ug/Kg
Lab Code:	R1911945-013	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	10	U	10	5.1	5	12/31/19 21:14	12/11/19	
4,4'-DDE	**20**		10	5.1	5	12/31/19 21:14	12/11/19	
4,4'-DDT	10	U	10	5.1	5	12/31/19 21:14	12/11/19	
Aldrin	10	U	10	5.1	5	12/31/19 21:14	12/11/19	
Dieldrin	10	U	10	5.1	5	12/31/19 21:14	12/11/19	
Endosulfan I	10	U	10	5.1	5	12/31/19 21:14	12/11/19	
Endosulfan II	10	U	10	5.1	5	12/31/19 21:14	12/11/19	
Endosulfan Sulfate	10	U	10	5.1	5	12/31/19 21:14	12/11/19	
Endrin	10	U	10	5.1	5	12/31/19 21:14	12/11/19	
Endrin Aldehyde	**15**		10	5.1	5	12/31/19 21:14	12/11/19	
Endrin Ketone	10	U	10	5.1	5	12/31/19 21:14	12/11/19	
Heptachlor	**7.5**	**J**	10	5.1	5	12/31/19 21:14	12/11/19	
Heptachlor Epoxide	10	U	10	5.1	5	12/31/19 21:14	12/11/19	
Methoxychlor	10	U	10	5.1	5	12/31/19 21:14	12/11/19	
Toxaphene	200	U	200	120	5	12/31/19 21:14	12/11/19	
alpha-BHC	10	U	10	5.1	5	12/31/19 21:14	12/11/19	
alpha-Chlordane	10	U	10	5.1	5	12/31/19 21:14	12/11/19	
beta-BHC	10	U	10	5.1	5	12/31/19 21:14	12/11/19	
delta-BHC	10	U	10	5.1	5	12/31/19 21:14	12/11/19	
gamma-BHC (Lindane)	10	U	10	5.1	5	12/31/19 21:14	12/11/19	
gamma-Chlordane	10	U	10	5.1	5	12/31/19 21:14	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	82	10 - 145	12/31/19 21:14	
Tetrachloro-m-xylene	72	10 - 123	12/31/19 21:14	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:52
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB5 12-14	**Units:**	ug/Kg
Lab Code:	R1911945-014	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	9.7 U	9.7	4.8	5	12/28/19 02:40	12/11/19	
4,4'-DDE	9.7 U	9.7	4.8	5	12/28/19 02:40	12/11/19	
4,4'-DDT	9.7 U	9.7	4.8	5	12/28/19 02:40	12/11/19	
Aldrin	9.7 U	9.7	4.8	5	12/28/19 02:40	12/11/19	
Dieldrin	9.7 U	9.7	4.8	5	12/28/19 02:40	12/11/19	
Endosulfan I	9.7 U	9.7	4.8	5	12/28/19 02:40	12/11/19	
Endosulfan II	9.7 U	9.7	4.8	5	12/28/19 02:40	12/11/19	
Endosulfan Sulfate	9.7 U	9.7	4.8	5	12/28/19 02:40	12/11/19	
Endrin	9.7 U	9.7	4.8	5	12/28/19 02:40	12/11/19	
Endrin Aldehyde	9.7 U	9.7	4.8	5	12/28/19 02:40	12/11/19	
Endrin Ketone	9.7 U	9.7	4.8	5	12/28/19 02:40	12/11/19	
Heptachlor	9.7 U	9.7	4.8	5	12/28/19 02:40	12/11/19	
Heptachlor Epoxide	9.7 U	9.7	4.8	5	12/28/19 02:40	12/11/19	
Methoxychlor	9.7 U	9.7	4.8	5	12/28/19 02:40	12/11/19	
Toxaphene	190 U	190	110	5	12/28/19 02:40	12/11/19	
alpha-BHC	9.7 U	9.7	4.8	5	12/28/19 02:40	12/11/19	
alpha-Chlordane	9.7 U	9.7	4.8	5	12/28/19 02:40	12/11/19	
beta-BHC	9.7 U	9.7	4.8	5	12/28/19 02:40	12/11/19	
delta-BHC	9.7 U	9.7	4.8	5	12/28/19 02:40	12/11/19	
gamma-BHC (Lindane)	9.7 U	9.7	4.8	5	12/28/19 02:40	12/11/19	
gamma-Chlordane	9.7 U	9.7	4.8	5	12/28/19 02:40	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	84	10 - 145	12/28/19 02:40	
Tetrachloro-m-xylene	62	10 - 123	12/28/19 02:40	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 10:40
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB2 1-2	**Units:**	ug/Kg
Lab Code:	R1911945-001	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	1900 U	1900	980	50	12/28/19 06:59	12/11/19	
Aroclor 1221	3900 U	3900	1900	50	12/28/19 06:59	12/11/19	
Aroclor 1232	1900 U	1900	1200	50	12/28/19 06:59	12/11/19	
Aroclor 1242	1900 U	1900	980	50	12/28/19 06:59	12/11/19	
Aroclor 1248	**2600**	1900	1500	50	12/28/19 06:59	12/11/19	
Aroclor 1254	**1800 J**	1900	1100	50	12/28/19 06:59	12/11/19	
Aroclor 1260	1900 U	1900	980	50	12/28/19 06:59	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	0 *	22 - 128	12/28/19 06:59	D
Tetrachloro-m-xylene	0 *	14 - 119	12/28/19 06:59	D

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 10:50
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB2 4-6	**Units:**	ug/Kg
Lab Code:	R1911945-002	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	1900 U	1900	990	50	12/28/19 07:19	12/11/19	
Aroclor 1221	3900 U	3900	2000	50	12/28/19 07:19	12/11/19	
Aroclor 1232	1900 U	1900	1200	50	12/28/19 07:19	12/11/19	
Aroclor 1242	1900 U	1900	990	50	12/28/19 07:19	12/11/19	
Aroclor 1248	**3100**	1900	1500	50	12/28/19 07:19	12/11/19	
Aroclor 1254	**1300 J**	1900	1100	50	12/28/19 07:19	12/11/19	
Aroclor 1260	1900 U	1900	990	50	12/28/19 07:19	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	0 *	22 - 128	12/28/19 07:19	D
Tetrachloro-m-xylene	0 *	14 - 119	12/28/19 07:19	D

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:00
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB2 15-17	**Units:**	ug/Kg
Lab Code:	R1911945-003	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	210 U	210	110	5	12/18/19 20:45	12/11/19	
Aroclor 1221	430 U	430	220	5	12/18/19 20:45	12/11/19	
Aroclor 1232	210 U	210	130	5	12/18/19 20:45	12/11/19	
Aroclor 1242	210 U	210	110	5	12/18/19 20:45	12/11/19	
Aroclor 1248	**590**	210	170	5	12/18/19 20:45	12/11/19	
Aroclor 1254	**380**	210	120	5	12/18/19 20:45	12/11/19	
Aroclor 1260	210 U	210	110	5	12/18/19 20:45	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	94	22 - 128	12/18/19 20:45	
Tetrachloro-m-xylene	80	14 - 119	12/18/19 20:45	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:20
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB3 1-2	**Units:**	ug/Kg
Lab Code:	R1911945-004	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	1700 U	1700	890	50	12/18/19 21:06	12/11/19	
Aroclor 1221	3500 U	3500	1800	50	12/18/19 21:06	12/11/19	
Aroclor 1232	1700 U	1700	1000	50	12/18/19 21:06	12/11/19	
Aroclor 1242	1700 U	1700	890	50	12/18/19 21:06	12/11/19	
Aroclor 1248	**12000**	1700	1400	50	12/18/19 21:06	12/11/19	
Aroclor 1254	**11000**	1700	940	50	12/18/19 21:06	12/11/19	
Aroclor 1260	**1900**	1700	890	50	12/18/19 21:06	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	0 *	22 - 128	12/18/19 21:06	D
Tetrachloro-m-xylene	0 *	14 - 119	12/18/19 21:06	D

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:00
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB3 4-6	**Units:**	ug/Kg
Lab Code:	R1911945-005	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	950 U	950	490	25	12/18/19 21:25	12/11/19	
Aroclor 1221	1900 U	1900	950	25	12/18/19 21:25	12/11/19	
Aroclor 1232	950 U	950	560	25	12/18/19 21:25	12/11/19	
Aroclor 1242	950 U	950	490	25	12/18/19 21:25	12/11/19	
Aroclor 1248	**8000**	950	740	25	12/18/19 21:25	12/11/19	
Aroclor 1254	**3400**	950	520	25	12/18/19 21:25	12/11/19	
Aroclor 1260	**810 J**	950	490	25	12/18/19 21:25	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	0 *	22 - 128	12/18/19 21:25	D
Tetrachloro-m-xylene	0 *	14 - 119	12/18/19 21:25	D

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:50
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB3 10-12	**Units:**	ug/Kg
Lab Code:	R1911945-006	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	37 U	37	19	1	12/16/19 23:19	12/11/19	
Aroclor 1221	74 U	74	37	1	12/16/19 23:19	12/11/19	
Aroclor 1232	37 U	37	22	1	12/16/19 23:19	12/11/19	
Aroclor 1242	37 U	37	19	1	12/16/19 23:19	12/11/19	
Aroclor 1248	37 U	37	29	1	12/16/19 23:19	12/11/19	
Aroclor 1254	37 U	37	20	1	12/16/19 23:19	12/11/19	
Aroclor 1260	37 U	37	19	1	12/16/19 23:19	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	85	22 - 128	12/16/19 23:19	
Tetrachloro-m-xylene	83	14 - 119	12/16/19 23:19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:10
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB4 1-2	**Units:**	ug/Kg
Lab Code:	R1911945-009	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	190 U	190	98	5	12/28/19 07:40	12/17/19	
Aroclor 1221	390 U	390	200	5	12/28/19 07:40	12/17/19	
Aroclor 1232	190 U	190	120	5	12/28/19 07:40	12/17/19	
Aroclor 1242	190 U	190	98	5	12/28/19 07:40	12/17/19	
Aroclor 1248	**490**	190	150	5	12/28/19 07:40	12/17/19	
Aroclor 1254	**280**	190	110	5	12/28/19 07:40	12/17/19	
Aroclor 1260	190 U	190	98	5	12/28/19 07:40	12/17/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	99	22 - 128	12/28/19 07:40	
Tetrachloro-m-xylene	76	14 - 119	12/28/19 07:40	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:10
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB4 1-2 Dup	**Units:**	ug/Kg
Lab Code:	R1911945-010	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	39 U	39	20	1	12/16/19 23:40	12/11/19	
Aroclor 1221	78 U	78	39	1	12/16/19 23:40	12/11/19	
Aroclor 1232	39 U	39	23	1	12/16/19 23:40	12/11/19	
Aroclor 1242	39 U	39	20	1	12/16/19 23:40	12/11/19	
Aroclor 1248	39 U	39	30	1	12/16/19 23:40	12/11/19	
Aroclor 1254	39 U	39	22	1	12/16/19 23:40	12/11/19	
Aroclor 1260	39 U	39	20	1	12/16/19 23:40	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	66	22 - 128	12/16/19 23:40	
Tetrachloro-m-xylene	43	14 - 119	12/16/19 23:40	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:10
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB4 16-18	**Units:**	ug/Kg
Lab Code:	R1911945-011	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	40 U	40	21	1	12/17/19 00:41	12/11/19	
Aroclor 1221	81 U	81	40	1	12/17/19 00:41	12/11/19	
Aroclor 1232	40 U	40	23	1	12/17/19 00:41	12/11/19	
Aroclor 1242	40 U	40	21	1	12/17/19 00:41	12/11/19	
Aroclor 1248	**38 J**	40	31	1	12/17/19 00:41	12/11/19	
Aroclor 1254	40 U	40	22	1	12/17/19 00:41	12/11/19	
Aroclor 1260	40 U	40	21	1	12/17/19 00:41	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	77	22 - 128	12/17/19 00:41	
Tetrachloro-m-xylene	46	14 - 119	12/17/19 00:41	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:35
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB5 3-5	**Units:**	ug/Kg
Lab Code:	R1911945-012	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	38 U	38	20	1	12/18/19 21:46	12/11/19	
Aroclor 1221	78 U	78	39	1	12/18/19 21:46	12/11/19	
Aroclor 1232	38 U	38	23	1	12/18/19 21:46	12/11/19	
Aroclor 1242	38 U	38	20	1	12/18/19 21:46	12/11/19	
Aroclor 1248	**160**	38	30	1	12/18/19 21:46	12/11/19	
Aroclor 1254	**100**	38	21	1	12/18/19 21:46	12/11/19	
Aroclor 1260	**24 J**	38	20	1	12/18/19 21:46	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	74	22 - 128	12/18/19 21:46	
Tetrachloro-m-xylene	57	14 - 119	12/18/19 21:46	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:42
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB5 7-8	**Units:**	ug/Kg
Lab Code:	R1911945-013	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	200 U	200	110	5	12/18/19 22:06	12/11/19	
Aroclor 1221	400 U	400	200	5	12/18/19 22:06	12/11/19	
Aroclor 1232	200 U	200	120	5	12/18/19 22:06	12/11/19	
Aroclor 1242	200 U	200	110	5	12/18/19 22:06	12/11/19	
Aroclor 1248	**1100**	200	160	5	12/18/19 22:06	12/11/19	
Aroclor 1254	**580**	200	110	5	12/18/19 22:06	12/11/19	
Aroclor 1260	**140 J**	200	110	5	12/18/19 22:06	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	94	22 - 128	12/18/19 22:06	
Tetrachloro-m-xylene	77	14 - 119	12/18/19 22:06	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:52
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB5 12-14	**Units:**	ug/Kg
Lab Code:	R1911945-014	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	38 U	38	20	1	12/17/19 01:42	12/11/19	
Aroclor 1221	76 U	76	38	1	12/17/19 01:42	12/11/19	
Aroclor 1232	38 U	38	22	1	12/17/19 01:42	12/11/19	
Aroclor 1242	38 U	38	20	1	12/17/19 01:42	12/11/19	
Aroclor 1248	**36 J**	38	30	1	12/17/19 01:42	12/11/19	
Aroclor 1254	**28 J**	38	21	1	12/17/19 01:42	12/11/19	
Aroclor 1260	38 U	38	20	1	12/17/19 01:42	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	87	22 - 128	12/17/19 01:42	
Tetrachloro-m-xylene	68	14 - 119	12/17/19 01:42	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 10:40
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB2 1-2	**Units:**	ug/Kg
Lab Code:	R1911945-001	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	11 U	11	4.1	1	12/17/19 19:53	12/13/19	
2,4,5-TP	11 U	11	3.9	1	12/17/19 19:53	12/13/19	
2,4-D	11 U	11	6.4	1	12/17/19 19:53	12/13/19	
Dicamba	11 U	11	4.2	1	12/17/19 19:53	12/13/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	61	10 - 151	12/17/19 19:53	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 10:50
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB2 4-6	**Units:**	ug/Kg
Lab Code:	R1911945-002	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	11 U	11	4.2	1	12/17/19 20:10	12/13/19	
2,4,5-TP	11 U	11	3.9	1	12/17/19 20:10	12/13/19	
2,4-D	11 U	11	6.5	1	12/17/19 20:10	12/13/19	
Dicamba	11 U	11	4.2	1	12/17/19 20:10	12/13/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	56	10 - 151	12/17/19 20:10	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:00
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB2 15-17	**Units:**	ug/Kg
Lab Code:	R1911945-003	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	12 U	12	4.6	1	12/17/19 20:27	12/13/19	
2,4,5-TP	12 U	12	4.3	1	12/17/19 20:27	12/13/19	
2,4-D	12 U	12	7.0	1	12/17/19 20:27	12/13/19	
Dicamba	12 U	12	4.6	1	12/17/19 20:27	12/13/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	55	10 - 151	12/17/19 20:27	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:20
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB3 1-2	**Units:**	ug/Kg
Lab Code:	R1911945-004	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	10 U	10	3.8	1	12/17/19 20:43	12/13/19	
2,4,5-TP	10 U	10	3.6	1	12/17/19 20:43	12/13/19	
2,4-D	10 U	10	5.9	1	12/17/19 20:43	12/13/19	
Dicamba	10 U	10	3.8	1	12/17/19 20:43	12/13/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	56	10 - 151	12/17/19 20:43	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:00
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB3 4-6	**Units:**	ug/Kg
Lab Code:	R1911945-005	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	12 U	12	4.2	1	12/17/19 21:00	12/13/19	
2,4,5-TP	**7.2 J**	12	4.0	1	12/17/19 21:00	12/13/19	
2,4-D	12 U	12	6.5	1	12/17/19 21:00	12/13/19	
Dicamba	12 U	12	4.3	1	12/17/19 21:00	12/13/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	54	10 - 151	12/17/19 21:00	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:50
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB3 10-12	**Units:**	ug/Kg
Lab Code:	R1911945-006	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	11 U	11	4.2	1	12/17/19 21:34	12/13/19	
2,4,5-TP	11 U	11	3.9	1	12/17/19 21:34	12/13/19	
2,4-D	11 U	11	6.4	1	12/17/19 21:34	12/13/19	
Dicamba	11 U	11	4.2	1	12/17/19 21:34	12/13/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	66	10 - 151	12/17/19 21:34	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:10
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB4 1-2	**Units:**	ug/Kg
Lab Code:	R1911945-009	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	11 U	11	4.1	1	12/17/19 21:51	12/13/19	
2,4,5-TP	11 U	11	3.9	1	12/17/19 21:51	12/13/19	
2,4-D	11 U	11	6.4	1	12/17/19 21:51	12/13/19	
Dicamba	11 U	11	4.2	1	12/17/19 21:51	12/13/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	58	10 - 151	12/17/19 21:51	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:10
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB4 1-2 Dup	**Units:**	ug/Kg
Lab Code:	R1911945-010	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	11 U	11	4.1	1	12/17/19 23:32	12/16/19	
2,4,5-TP	11 U	11	3.9	1	12/17/19 23:32	12/16/19	
2,4-D	11 U	11	6.4	1	12/17/19 23:32	12/16/19	
Dicamba	11 U	11	4.2	1	12/17/19 23:32	12/16/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	57	10 - 151	12/17/19 23:32	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:10
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB4 16-18	**Units:**	ug/Kg
Lab Code:	R1911945-011	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	12 U	12	4.3	1	12/17/19 22:58	12/16/19	
2,4,5-TP	12 U	12	4.0	1	12/17/19 22:58	12/16/19	
2,4-D	12 U	12	6.6	1	12/17/19 22:58	12/16/19	
Dicamba	12 U	12	4.3	1	12/17/19 22:58	12/16/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	55	10 - 151	12/17/19 22:58	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:35
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB5 3-5	**Units:**	ug/Kg
Lab Code:	R1911945-012	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	12 U	12	4.3	1	12/18/19 00:05	12/16/19	
2,4,5-TP	12 U	12	4.0	1	12/18/19 00:05	12/16/19	
2,4-D	12 U	12	6.6	1	12/18/19 00:05	12/16/19	
Dicamba	12 U	12	4.3	1	12/18/19 00:05	12/16/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	56	10 - 151	12/18/19 00:05	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:42
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB5 7-8	**Units:**	ug/Kg
Lab Code:	R1911945-013	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	12 U	12	4.3	1	12/18/19 00:39	12/16/19	
2,4,5-TP	12 U	12	4.0	1	12/18/19 00:39	12/16/19	
2,4-D	12 U	12	6.6	1	12/18/19 00:39	12/16/19	
Dicamba	12 U	12	4.3	1	12/18/19 00:39	12/16/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	62	10 - 151	12/18/19 00:39	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:52
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB5 12-14	**Units:**	ug/Kg
Lab Code:	R1911945-014	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	11 U	11	4.1	1	12/18/19 00:55	12/16/19	
2,4,5-TP	11 U	11	3.9	1	12/18/19 00:55	12/16/19	
2,4-D	11 U	11	6.3	1	12/18/19 00:55	12/16/19	
Dicamba	11 U	11	4.1	1	12/18/19 00:55	12/16/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	52	10 - 151	12/18/19 00:55	

Metals

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Leader Professional Services, In
Service Request: SB2 1-2
Project No.: R1911945
Date Collected: 12/4/2019
Project Name:
Date Received: 12/5/2019
Matrix: SOIL
Units: mg/Kg
Basis:

Sample Name: SB2 1-2
Lab Code: R1911945-001

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	22.2	13.3	1.0	11100		
Antimony	6010C	6.7	0.600	1.0	6.7	U	N
Arsenic	6010C	1.1	0.777	1.0	3.3		N
Barium	6010C	2.2	1.1	1.0	108		
Beryllium	6010C	0.333	0.032	1.0	0.511		
Cadmium	6010C	0.555	0.081	1.0	0.355	J	
Mercury	7471B	0.038	0.007	1.0	1.1		
Calcium	6010C	1110	355	10.0	53000		
Chromium	6010C	1.1	0.389	1.0	18.3		
Cobalt	6010C	5.6	0.211	1.0	8.1		
Copper	6010C	2.2	0.699	1.0	19.2		
Iron	6010C	222	144	10.0	18800		
Lead	6010C	5.6	0.444	1.0	31.6		
Magnesium	6010C	111	14.4	1.0	16100		
Manganese	6010C	2.2	1.7	1.0	552		
Nickel	6010C	4.4	0.733	1.0	13.9		
Potassium	6010C	222	10.7	1.0	1800		E
Selenium	6010C	1.1	0.600	1.0	1.1	U	
Silver	6010C	1.1	0.079	1.0	1.1	U	
Sodium	6010C	111	57.7	1.0	176		
Thallium	6010C	1.1	0.722	1.0	1.1	J	
Vanadium	6010C	5.6	0.788	1.0	22.6		
Zinc	6010C	2.2	1.6	1.0	77.7		

% Solids: 88.3

Comments:

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Leader Professional Services, In
Service Request: SB2 1-2
Project No.: R1911945
Date Collected: 12/4/2019
Project Name:
Date Received: 12/5/2019
Matrix: SOIL
Units: mg/Kg
Basis:

Sample Name: SB2 4-6
Lab Code: R1911945-002

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	22.9	13.8	1.0	8630		
Antimony	6010C	6.9	0.619	1.0	6.9	U	N
Arsenic	6010C	1.2	0.803	1.0	2.8		N
Barium	6010C	2.3	1.1	1.0	84.5		
Beryllium	6010C	0.344	0.033	1.0	0.401		
Cadmium	6010C	0.573	0.084	1.0	0.436	J	
Mercury	7471B	0.036	0.006	1.0	0.081		
Calcium	6010C	1150	367	10.0	76200		
Chromium	6010C	1.2	0.401	1.0	13.7		
Cobalt	6010C	5.7	0.218	1.0	9.1		
Copper	6010C	2.3	0.722	1.0	22.3		
Iron	6010C	229	149	10.0	17700		
Lead	6010C	5.7	0.459	1.0	16.6		
Magnesium	6010C	115	14.9	1.0	22100		
Manganese	6010C	2.3	1.7	1.0	580		
Nickel	6010C	4.6	0.757	1.0	11.3		
Potassium	6010C	229	11.0	1.0	2190		E
Selenium	6010C	1.2	0.619	1.0	1.2	U	
Silver	6010C	1.2	0.081	1.0	1.2	U	
Sodium	6010C	115	59.6	1.0	199		
Thallium	6010C	1.2	0.745	1.0	2.1		
Vanadium	6010C	5.7	0.814	1.0	19.7		
Zinc	6010C	2.3	1.6	1.0	75.8		

% Solids: 87.2

Comments:

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Leader Professional Services, In
Project No.: R1911945
Project Name:
Matrix: SOIL

Service Request: SB2 1-2
Date Collected: 12/4/2019
Date Received: 12/5/2019
Units: mg/Kg
Basis:

Sample Name: SB2 15-17
Lab Code: R1911945-003

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	24.6	14.7	1.0	9910		
Antimony	6010C	7.4	0.663	1.0	7.4	U	N
Arsenic	6010C	1.2	0.860	1.0	2.1		N
Barium	6010C	2.5	1.2	1.0	117		
Beryllium	6010C	0.369	0.036	1.0	0.442		
Cadmium	6010C	0.614	0.090	1.0	0.442	J	
Mercury	7471B	0.039	0.007	1.0	1.5		
Calcium	6010C	1230	393	10.0	64700		
Chromium	6010C	1.2	0.430	1.0	37.2		
Cobalt	6010C	6.1	0.233	1.0	8.0		
Copper	6010C	2.5	0.774	1.0	21.8		
Iron	6010C	246	160	10.0	19300		
Lead	6010C	6.1	0.491	1.0	152		
Magnesium	6010C	123	16.0	1.0	20900		
Manganese	6010C	2.5	1.8	1.0	584		
Nickel	6010C	4.9	0.811	1.0	13.9		
Potassium	6010C	246	11.8	1.0	2510		E
Selenium	6010C	1.2	0.663	1.0	1.2	U	
Silver	6010C	1.2	0.087	1.0	1.2	U	
Sodium	6010C	123	63.9	1.0	204		
Thallium	6010C	1.2	0.799	1.0	1.4		
Vanadium	6010C	6.1	0.872	1.0	23.3		
Zinc	6010C	2.5	1.7	1.0	125		

% Solids: 79.8

Comments:

Form 1 IN

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Leader Professional Services, In
Project No.: R1911945
Project Name:
Matrix: SOIL

Service Request: SB2 1-2
Date Collected: 12/4/2019
Date Received: 12/5/2019
Units: mg/Kg
Basis:

Sample Name: SB3 1-2
Lab Code: R1911945-004

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	20.2	12.1	1.0	10300		
Antimony	6010C	6.1	0.547	1.0	6.1	U	N
Arsenic	6010C	1.0	0.709	1.0	3.1		N
Barium	6010C	2.0	0.982	1.0	122		
Beryllium	6010C	0.304	0.029	1.0	0.587		
Cadmium	6010C	0.506	0.074	1.0	0.678		
Mercury	7471B	0.032	0.006	1.0	1.1		
Calcium	6010C	1010	324	10.0	42100		
Chromium	6010C	1.0	0.354	1.0	30.9		
Cobalt	6010C	5.1	0.192	1.0	7.4		
Copper	6010C	2.0	0.638	1.0	22.3		
Iron	6010C	202	132	10.0	18200		
Lead	6010C	5.1	0.405	1.0	194		
Magnesium	6010C	101	13.2	1.0	9910		
Manganese	6010C	2.0	1.5	1.0	576		
Nickel	6010C	4.1	0.668	1.0	13.2		
Potassium	6010C	202	9.7	1.0	1580		E
Selenium	6010C	1.0	0.547	1.0	1.0	U	
Silver	6010C	1.0	0.072	1.0	1.0	U	
Sodium	6010C	101	52.6	1.0	122		
Thallium	6010C	1.0	0.658	1.0	0.901	J	
Vanadium	6010C	5.1	0.719	1.0	21.5		
Zinc	6010C	20.2	14.2	10.0	538		

% Solids: 95.0

Comments:

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Leader Professional Services, In
Service Request: SB2 1-2
Project No.: R1911945
Date Collected: 12/4/2019
Project Name:
Date Received: 12/5/2019
Matrix: SOIL
Units: mg/Kg
Basis:

Sample Name: SB3 4-6
Lab Code: R1911945-005

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	21.8	13.1	1.0	9060		
Antimony	6010C	6.5	0.588	1.0	6.5	U	N
Arsenic	6010C	10.9	7.6	10.0	10.9	U	N
Barium	6010C	2.2	1.1	1.0	105		
Beryllium	6010C	0.327	0.032	1.0	0.501		
Cadmium	6010C	0.545	0.080	1.0	0.338	J	
Mercury	7471B	0.036	0.006	1.0	1.4		
Calcium	6010C	1090	349	10.0	97800		
Chromium	6010C	1.1	0.381	1.0	29.9		
Cobalt	6010C	5.5	0.207	1.0	6.8		
Copper	6010C	2.2	0.686	1.0	18.3		
Iron	6010C	218	142	10.0	16100		
Lead	6010C	5.5	0.436	1.0	215		
Magnesium	6010C	109	14.2	1.0	11800		
Manganese	6010C	2.2	1.6	1.0	406		
Nickel	6010C	4.4	0.719	1.0	12.8		
Potassium	6010C	218	10.5	1.0	2090		E
Selenium	6010C	1.1	0.588	1.0	1.1	U	
Silver	6010C	1.1	0.077	1.0	1.1	U	
Sodium	6010C	109	56.6	1.0	202		
Thallium	6010C	1.1	0.708	1.0	2.9		
Vanadium	6010C	5.5	0.773	1.0	23.6		
Zinc	6010C	2.2	1.5	1.0	184		

% Solids: 86.6

Comments:

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Leader Professional Services, In
Project No.: R1911945
Project Name:
Matrix: SOIL

Service Request: SB2 1-2
Date Collected: 12/4/2019
Date Received: 12/5/2019
Units: mg/Kg
Basis:

Sample Name: SB3 10-12
Lab Code: R1911945-006

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	20.9	12.5	1.0	9490		
Antimony	6010C	6.3	0.564	1.0	6.3	U	N
Arsenic	6010C	1.1	0.732	1.0	2.3		N
Barium	6010C	2.1	1.0	1.0	75.1		
Beryllium	6010C	0.314	0.030	1.0	0.449		
Cadmium	6010C	0.523	0.076	1.0	0.376	J	
Mercury	7471B	0.036	0.006	1.0	0.025	J	
Calcium	6010C	1050	334	10.0	61100		
Chromium	6010C	1.1	0.366	1.0	15.0		
Cobalt	6010C	5.2	0.199	1.0	7.6		
Copper	6010C	2.1	0.658	1.0	18.0		
Iron	6010C	209	136	10.0	19300		
Lead	6010C	5.2	0.418	1.0	13.3		
Magnesium	6010C	105	13.6	1.0	18800		
Manganese	6010C	2.1	1.6	1.0	531		
Nickel	6010C	4.2	0.690	1.0	13.1		
Potassium	6010C	209	10.0	1.0	2310		E
Selenium	6010C	1.1	0.564	1.0	1.1	U	
Silver	6010C	1.1	0.074	1.0	1.1	U	
Sodium	6010C	105	54.3	1.0	187		
Thallium	6010C	1.1	0.679	1.0	1.3		
Vanadium	6010C	5.2	0.742	1.0	21.4		
Zinc	6010C	2.1	1.5	1.0	77.6		

% Solids: 88.6

Comments:

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Leader Professional Services, In
Service Request: SB2 1-2
Project No.: R1911945
Date Collected: 12/4/2019
Project Name:
Date Received: 12/5/2019
Matrix: SOIL
Units: mg/Kg
Basis:

Sample Name: SB4 1-2
Lab Code: R1911945-009

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	22.9	13.7	1.0	10500		
Antimony	6010C	6.9	0.618	1.0	6.9	U	N
Arsenic	6010C	1.1	0.801	1.0	4.0		N
Barium	6010C	2.3	1.1	1.0	110		
Beryllium	6010C	0.343	0.033	1.0	0.503		
Cadmium	6010C	0.572	0.084	1.0	0.355	J	
Mercury	7471B	0.038	0.007	1.0	0.009	J	
Calcium	6010C	1140	366	10.0	65900		
Chromium	6010C	1.1	0.400	1.0	16.0		
Cobalt	6010C	5.7	0.217	1.0	8.7		
Copper	6010C	2.3	0.721	1.0	23.0		
Iron	6010C	229	149	10.0	21600		
Lead	6010C	5.7	0.458	1.0	10.4		
Magnesium	6010C	114	14.9	1.0	20200		
Manganese	6010C	2.3	1.7	1.0	608		
Nickel	6010C	4.6	0.755	1.0	15.4		
Potassium	6010C	229	11.0	1.0	2600		E
Selenium	6010C	1.1	0.618	1.0	1.1	U	
Silver	6010C	1.1	0.081	1.0	1.1	U	
Sodium	6010C	114	59.5	1.0	204		
Thallium	6010C	1.1	0.744	1.0	1.2		
Vanadium	6010C	5.7	0.812	1.0	23.7		
Zinc	6010C	2.3	1.6	1.0	82.9		

% Solids: 87.4

Comments:

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Leader Professional Services, In
Service Request: SB2 1-2
Project No.: R1911945
Date Collected: 12/4/2019
Project Name:
Date Received: 12/5/2019
Matrix: SOIL
Units: mg/Kg
Basis:

Sample Name: SB4 1-2 Dup
Lab Code: R1911945-010

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	21.8	13.1	1.0	10900		
Antimony	6010C	6.5	0.587	1.0	6.5	U	N
Arsenic	6010C	1.1	0.761	1.0	3.1		N
Barium	6010C	2.2	1.1	1.0	86.5		
Beryllium	6010C	0.326	0.032	1.0	0.511		
Cadmium	6010C	0.544	0.079	1.0	0.446	J	
Mercury	7471B	0.035	0.006	1.0	0.011	J	
Calcium	6010C	1090	348	10.0	74000		
Chromium	6010C	1.1	0.381	1.0	15.8		
Cobalt	6010C	5.4	0.207	1.0	8.4		
Copper	6010C	2.2	0.685	1.0	19.5		
Iron	6010C	218	141	10.0	21000		
Lead	6010C	5.4	0.435	1.0	9.7		
Magnesium	6010C	109	14.1	1.0	17900		
Manganese	6010C	2.2	1.6	1.0	566		
Nickel	6010C	4.4	0.718	1.0	14.0		
Potassium	6010C	218	10.4	1.0	2170		E
Selenium	6010C	1.1	0.587	1.0	1.1	U	
Silver	6010C	1.1	0.077	1.0	1.1	U	
Sodium	6010C	109	56.6	1.0	175		
Thallium	6010C	1.1	0.707	1.0	1.9		
Vanadium	6010C	5.4	0.772	1.0	23.7		
Zinc	6010C	2.2	1.5	1.0	80.2		

% Solids: 88.4

Comments:

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Leader Professional Services, In
Project No.: R1911945
Project Name:
Matrix: SOIL

Service Request: SB2 1-2
Date Collected: 12/4/2019
Date Received: 12/5/2019
Units: mg/Kg
Basis:

Sample Name: SB4 16-18
Lab Code: R1911945-011

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	21.5	12.9	1.0	9070		
Antimony	6010C	6.5	0.581	1.0	6.5	U	N
Arsenic	6010C	1.1	0.754	1.0	2.6		N
Barium	6010C	2.2	1.0	1.0	85.2		
Beryllium	6010C	0.323	0.031	1.0	0.441		
Cadmium	6010C	0.538	0.079	1.0	0.301	J	
Mercury	7471B	0.036	0.006	1.0	0.044		
Calcium	6010C	1080	345	10.0	69400		
Chromium	6010C	1.1	0.377	1.0	14.6		
Cobalt	6010C	5.4	0.205	1.0	7.8		
Copper	6010C	2.2	0.678	1.0	18.0		
Iron	6010C	215	140	10.0	18200		
Lead	6010C	5.4	0.431	1.0	18.1		
Magnesium	6010C	108	14.0	1.0	20200		
Manganese	6010C	2.2	1.6	1.0	558		
Nickel	6010C	4.3	0.711	1.0	13.8		
Potassium	6010C	215	10.3	1.0	2300		E
Selenium	6010C	1.1	0.581	1.0	1.1	U	
Silver	6010C	1.1	0.076	1.0	1.1	U	
Sodium	6010C	108	56.0	1.0	194		
Thallium	6010C	1.1	0.700	1.0	1.9		
Vanadium	6010C	5.4	0.764	1.0	20.9		
Zinc	6010C	2.2	1.5	1.0	74.7		

% Solids: 86.0

Comments:

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Leader Professional Services, In
Service Request: SB2 1-2
Project No.: R1911945
Date Collected: 12/4/2019
Project Name:
Date Received: 12/5/2019
Matrix: SOIL
Units: mg/Kg
Basis:

Sample Name: SB5 3-5
Lab Code: R1911945-012

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	21.5	12.9	1.0	12300		
Antimony	6010C	6.5	0.580	1.0	6.5	U	N
Arsenic	6010C	1.1	0.752	1.0	4.5		N
Barium	6010C	2.2	1.0	1.0	94.7		
Beryllium	6010C	0.322	0.031	1.0	0.613		
Cadmium	6010C	0.537	0.078	1.0	0.387	J	
Mercury	7471B	0.038	0.007	1.0	0.051		
Calcium	6010C	1070	344	10.0	32100		
Chromium	6010C	1.1	0.376	1.0	17.9		
Cobalt	6010C	5.4	0.204	1.0	8.5		
Copper	6010C	2.2	0.677	1.0	21.1		
Iron	6010C	215	140	10.0	21600		
Lead	6010C	5.4	0.430	1.0	15.6		
Magnesium	6010C	107	14.0	1.0	13100		
Manganese	6010C	2.2	1.6	1.0	390		
Nickel	6010C	4.3	0.709	1.0	18.4		
Potassium	6010C	215	10.3	1.0	2240		E
Selenium	6010C	1.1	0.580	1.0	1.1	U	
Silver	6010C	1.1	0.076	1.0	1.1	U	
Sodium	6010C	107	55.9	1.0	160		
Thallium	6010C	1.1	0.698	1.0	1.1	U	
Vanadium	6010C	5.4	0.763	1.0	25.9		
Zinc	6010C	2.2	1.5	1.0	71.9		

% Solids: 84.6

Comments:

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Leader Professional Services, In
Service Request: SB2 1-2
Project No.: R1911945
Date Collected: 12/4/2019
Project Name:
Date Received: 12/5/2019
Matrix: SOIL
Units: mg/Kg
Basis:

Sample Name: SB5 7-8
Lab Code: R1911945-013

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	22.7	13.6	1.0	9880		
Antimony	6010C	6.8	0.614	1.0	6.8	U	N
Arsenic	6010C	1.1	0.796	1.0	3.1		N
Barium	6010C	2.3	1.1	1.0	91.2		
Beryllium	6010C	0.341	0.033	1.0	0.455		
Cadmium	6010C	0.568	0.083	1.0	0.352	J	
Mercury	7471B	0.037	0.006	1.0	0.035	J	
Calcium	6010C	1140	364	10.0	65300		
Chromium	6010C	1.1	0.398	1.0	15.7		
Cobalt	6010C	5.7	0.216	1.0	7.9		
Copper	6010C	2.3	0.716	1.0	17.3		
Iron	6010C	227	148	10.0	20200		
Lead	6010C	5.7	0.455	1.0	9.0		
Magnesium	6010C	114	14.8	1.0	19400		
Manganese	6010C	2.3	1.7	1.0	583		
Nickel	6010C	4.6	0.750	1.0	13.9		
Potassium	6010C	227	10.9	1.0	2370		E
Selenium	6010C	1.1	0.614	1.0	1.1	U	
Silver	6010C	1.1	0.081	1.0	1.1	U	
Sodium	6010C	114	59.1	1.0	206		
Thallium	6010C	11.4	7.4	10.0	11.4	U	
Vanadium	6010C	5.7	0.807	1.0	21.8		
Zinc	6010C	2.3	1.6	1.0	73.1		

% Solids: 84.6

Comments:

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Leader Professional Services, In
Service Request: SB2 1-2
Project No.: R1911945
Date Collected: 12/4/2019
Project Name:
Date Received: 12/5/2019
Matrix: SOIL
Units: mg/Kg
Basis:

Sample Name: SB5 12-14
Lab Code: R1911945-014

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	22.3	13.4	1.0	9340		
Antimony	6010C	6.7	0.602	1.0	6.7	U	N
Arsenic	6010C	1.1	0.780	1.0	3.0		N
Barium	6010C	2.2	1.1	1.0	94.3		
Beryllium	6010C	0.334	0.032	1.0	0.457		
Cadmium	6010C	0.557	0.081	1.0	0.379	J	
Mercury	7471B	0.036	0.006	1.0	0.034	J	
Calcium	6010C	1110	357	10.0	56800		
Chromium	6010C	1.1	0.390	1.0	14.2		
Cobalt	6010C	5.6	0.212	1.0	8.0		
Copper	6010C	2.2	0.702	1.0	18.7		
Iron	6010C	223	145	10.0	18600		
Lead	6010C	5.6	0.446	1.0	10.4		
Magnesium	6010C	111	14.5	1.0	18000		
Manganese	6010C	2.2	1.7	1.0	523		
Nickel	6010C	4.5	0.736	1.0	12.5		
Potassium	6010C	223	10.7	1.0	2330		E
Selenium	6010C	1.1	0.602	1.0	1.1	U	
Silver	6010C	1.1	0.079	1.0	1.1	U	
Sodium	6010C	111	58.0	1.0	179		
Thallium	6010C	1.1	0.725	1.0	1.2		
Vanadium	6010C	5.6	0.792	1.0	21.0		
Zinc	6010C	2.2	1.6	1.0	78.8		

% Solids: 89.7

Comments:

General Chemistry

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
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Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 10:40
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB2 1-2	**Basis:**	Dry
Lab Code:	R1911945-001		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	**1.18**	mg/Kg	0.27	0.05	1	12/13/19 17:27	12/12/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 10:40
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB2 1-2	**Basis:**	As Received
Lab Code:	R1911945-001		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Total Solids	ALS SOP	**88.3**	Percent	-	-	1	12/11/19 08:45	NA	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 10:50
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB2 4-6	**Basis:**	Dry
Lab Code:	R1911945-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	0.31 U	mg/Kg	0.31	0.05	1	12/13/19 17:28	12/12/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 10:50
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB2 4-6	**Basis:**	As Received
Lab Code:	R1911945-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Total Solids	ALS SOP	**87.2**	Percent	-	-	1	12/11/19 08:45	NA	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:00
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB2 15-17	**Basis:**	Dry
Lab Code:	R1911945-003		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	**0.11 J**	mg/Kg	0.25	0.05	1	12/13/19 17:28	12/12/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:00
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB2 15-17	**Basis:**	As Received
Lab Code:	R1911945-003		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Total Solids	ALS SOP	**79.8**	Percent	-	-	1	12/11/19 08:45	NA	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:20
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB3 1-2	**Basis:**	Dry
Lab Code:	R1911945-004		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	**1.11**	mg/Kg	0.21	0.05	1	12/13/19 17:29	12/12/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:20
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB3 1-2	**Basis:**	As Received
Lab Code:	R1911945-004		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Total Solids	ALS SOP	**95.0**	Percent	-	-	1	12/11/19 08:45	NA	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:00
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB3 4-6	**Basis:**	Dry
Lab Code:	R1911945-005		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	**0.38**	mg/Kg	0.24	0.05	1	12/13/19 17:30	12/12/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:00
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB3 4-6	**Basis:**	As Received
Lab Code:	R1911945-005		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Total Solids	ALS SOP	**86.6**	Percent	-	-	1	12/11/19 08:45	NA	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:50
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB3 10-12	**Basis:**	Dry
Lab Code:	R1911945-006		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	0.34 U	mg/Kg	0.34	0.05	1	12/13/19 17:31	12/12/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 11:50
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB3 10-12	**Basis:**	As Received
Lab Code:	R1911945-006		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Total Solids	ALS SOP	**88.6**	Percent	-	-	1	12/11/19 08:45	NA	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:10
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB4 1-2	**Basis:**	Dry
Lab Code:	R1911945-009		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	0.28 U	mg/Kg	0.28	0.05	1	12/13/19 17:31	12/12/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:10
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB4 1-2	**Basis:**	As Received
Lab Code:	R1911945-009		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Total Solids	ALS SOP	**87.4**	Percent	-	-	1	12/11/19 08:45	NA	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:10
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB4 1-2 Dup	**Basis:**	Dry
Lab Code:	R1911945-010		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	0.27 U	mg/Kg	0.27	0.05	1	12/13/19 17:35	12/12/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:10
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB4 1-2 Dup	**Basis:**	As Received
Lab Code:	R1911945-010		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Total Solids	ALS SOP	**88.4**	Percent	-	-	1	12/11/19 08:45	NA	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:10
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB4 16-18	**Basis:**	Dry
Lab Code:	R1911945-011		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	**0.40**	mg/Kg	0.28	0.05	1	12/13/19 17:36	12/12/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:10
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB4 16-18	**Basis:**	As Received
Lab Code:	R1911945-011		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Total Solids	ALS SOP	**86.0**	Percent	-	-	1	12/11/19 08:45	NA	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:35
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB5 3-5	**Basis:**	Dry
Lab Code:	R1911945-012		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	0.27 U	mg/Kg	0.27	0.05	1	12/13/19 17:37	12/12/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:35
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB5 3-5	**Basis:**	As Received
Lab Code:	R1911945-012		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Total Solids	ALS SOP	**84.6**	Percent	-	-	1	12/11/19 08:45	NA	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:42
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB5 7-8	**Basis:**	Dry
Lab Code:	R1911945-013		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	0.23 U	mg/Kg	0.23	0.05	1	12/13/19 17:38	12/12/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:42
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB5 7-8	**Basis:**	As Received
Lab Code:	R1911945-013		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Total Solids	ALS SOP	**84.6**	Percent	-	-	1	12/11/19 08:45	NA	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:52
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB5 12-14	**Basis:**	Dry
Lab Code:	R1911945-014		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	0.32 U	mg/Kg	0.32	0.05	1	12/13/19 17:39	12/12/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:52
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB5 12-14	**Basis:**	As Received
Lab Code:	R1911945-014		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Total Solids	ALS SOP	**89.7**	Percent	-	-	1	12/11/19 08:45	NA	

QC Summary Forms

ALS Environmental—Rochester Laboratory
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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
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Client: Leader Professional Services, Inc. **Service Request:** R1911945
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5035A

Sample Name	Lab Code	4-Bromofluorobenzene 31-154	Dibromofluoromethane 63-138	Toluene-d8 66-138
SB2 1-2	R1911945-001	90	80	92
SB2 4-6	R1911945-002	96	87	95
SB2 4-6 DL	R1911945-002	97	88	97
SB2 15-17	R1911945-003	95	84	96
SB2 15-17 DL	R1911945-003	96	90	98
SB3 1-2	R1911945-004	82	96	97
SB3 1-2 DL	R1911945-004	95	80	94
SB3 4-6	R1911945-005	101	89	97
SB3 10-12	R1911945-006	98	95	99
SB4 1-2	R1911945-009	95	95	97
SB4 1-2 DL	R1911945-009	90	81	94
SB4 1-2 Dup	R1911945-010	88	95	98
SB4 16-18	R1911945-011	87	97	99
SB5 3-5	R1911945-012	80	95	96
SB5 7-8	R1911945-013	100	93	99
SB5 7-8 DL	R1911945-013	87	81	95
SB5 12-14	R1911945-014	95	94	97
Method Blank	RQ1914460-04	99	96	99
Method Blank	RQ1914665-04	90	88	96
Method Blank	RQ1914737-04	89	82	94
Lab Control Sample	RQ1914460-03	98	98	97
Lab Control Sample	RQ1914665-03	97	94	97
Lab Control Sample	RQ1914737-03	92	93	96
SB4 1-2 MS	RQ1914665-05	97	92	96
SB4 1-2 DMS	RQ1914665-06	99	95	97

Client: Leader Professional Services, Inc. **Service Request:** R1911945
Project: Tonawanda Bisonite Paint
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5035A

Sample Name	Lab Code	4-Bromofluorobenzene 31-154	Dibromofluoromethane 63-138	Toluene-d8 66-138
Trip Blank 1	R1911945-007	90	91	98
Trip Blank 2	R1911945-008	91	95	99
Method Blank	RQ1914520-04	92	93	98
Lab Control Sample	RQ1914520-03	94	95	99

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19
Sample Matrix:	Soil	**Date Received:**	12/05/19
		Date Analyzed:	12/16/19
		Date Extracted:	NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name:	SB4 1-2	**Units:**	ug/Kg
Lab Code:	R1911945-009	**Basis:**	Dry
Analysis Method:	8260C		
Prep Method:	EPA 5035A		

		Matrix Spike			Duplicate Matrix Spike					
		RQ1914665-05			RQ1914665-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,1,1-Trichloroethane (TCA)	500 U	3160	4980	64	4610	4980	93	44-124	37*	30
1,1,2,2-Tetrachloroethane	500 U	5260	4980	106	5790	4980	116	41-155	9	30
1,1,2-Trichloroethane	500 U	5090	4980	102	5590	4980	112	48-124	9	30
1,1,2-Trichloro-1,2,2-trifluoroethane	500 U	2970	4980	60	4720	4980	95	40-117	45*	30
1,1-Dichloroethane (1,1-DCA)	500 U	3890	4980	78	5040	4980	101	41-138	26	30
1,1-Dichloroethene (1,1-DCE)	500 U	3280	4980	66	4730	4980	95	46-124	36*	30
1,2,3-Trichlorobenzene	500 U	5230	4980	105	6130	4980	123	10-169	16	30
1,2,4-Trichlorobenzene	500 U	5190	4980	104	6210	4980	125	10-169	18	30
1,2-Dibromo-3-chloropropane (DBCP)	500 U	5080	4980	102	5740	4980	115	30-136	12	30
1,2-Dibromoethane	500 U	4940	4980	99	5440	4980	109	38-129	10	30
1,2-Dichlorobenzene	500 U	4680	4980	94	5510	4980	111	11-152	17	30
1,2-Dichloroethane	500 U	4060	4980	82	4640	4980	93	49-119	13	30
1,2-Dichloropropane	500 U	4530	4980	91	5400	4980	108	60-126	17	30
1,3-Dichlorobenzene	500 U	4290	4980	86	5190	4980	104	13-151	19	30
1,4-Dichlorobenzene	500 U	4240	4980	85	5130	4980	103	10-151	19	30
1,4-Dioxane	10000 U	126000	99500	127	134000	99500	134	49-188	5	30
2-Butanone (MEK)	500 U	3560	4980	71	3620	4980	73	13-176	3	30
2-Hexanone	500 U	5480	4980	110	6000	4980	121	12-163	10	30
4-Methyl-2-pentanone	500 U	5660	4980	114	5920	4980	119	38-148	4	30
Acetone	680 D	4980	4980	86	5200	4980	91	11-183	6	30
Benzene	500 U	4120	4980	83	5210	4980	105	51-123	23	30
Bromochloromethane	500 U	4460	4980	90	5110	4980	103	46-129	13	30
Bromodichloromethane	500 U	3960	4980	79	4800	4980	97	39-122	20	30
Bromoform	500 U	4710	4980	95	5240	4980	105	16-135	10	30
Bromomethane	500 U	1580	4980	32	1850	4980	37	10-150	14	30
Carbon Disulfide	500 U	4080	4980	82	4420	4980	89	44-139	8	30
Carbon Tetrachloride	500 U	2780	4980	56	4340	4980	87	46-137	43*	30
Chlorobenzene	500 U	4160	4980	84	5080	4980	102	25-129	19	30
Chloroethane	500 U	1860	4980	37	2670	4980	54	10-166	37*	30
Chloroform	500 U	3950	4980	79	4880	4980	98	55-118	21	30
Chloromethane	500 U	4220	4980	85	5770	4980	116	10-139	31*	30
Cyclohexane	500 U	5090	4980	102	5280	4980	106	28-126	4	30
Dibromochloromethane	500 U	4480	4980	90	5120	4980	103	36-125	13	30
Dichlorodifluoromethane (CFC 12)	500 U	3260	4980	66	5090	4980	102	51-144	43*	30
Dichloromethane	500 U	4060	4980	82	4900	4980	99	49-125	19	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19
Sample Matrix:	Soil	**Date Received:**	12/05/19
		Date Analyzed:	12/16/19
		Date Extracted:	NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name:	SB4 1-2	**Units:**	ug/Kg
Lab Code:	R1911945-009	**Basis:**	Dry
Analysis Method:	8260C		
Prep Method:	EPA 5035A		

		Matrix Spike			Duplicate Matrix Spike					
		RQ1914665-05			RQ1914665-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Ethylbenzene	500 U	3930	4980	79	5100	4980	103	23-132	26	30
Isopropylbenzene (Cumene)	500 U	3760	4980	76	5110	4980	103	18-133	30	30
Methyl Acetate	470 DJ	5620	4980	103	6180	4980	115	10-200	11	30
Methyl tert-Butyl Ether	500 U	4950	4980	100	5360	4980	108	62-130	8	30
Methylcyclohexane	48 DJ	5520	4980	110	5700	4980	114	12-134	4	30
Styrene	500 U	4480	4980	90	5360	4980	108	15-160	18	30
Tetrachloroethene (PCE)	500 U	3300	4980	66	4790	4980	96	21-137	37*	30
Toluene	49 DJ	3990	4980	79	5110	4980	102	11-152	25	30
Trichloroethene (TCE)	500 U	3580	4980	72	4750	4980	95	23-140	28	30
Trichlorofluoromethane (CFC 11)	500 U	1850	4980	37 *	2840	4980	57	47-129	43*	30
Vinyl Chloride	500 U	3380	4980	68	5000	4980	101	59-153	39*	30
cis-1,2-Dichloroethene	500 U	4120	4980	83	5200	4980	104	42-129	22	30
cis-1,3-Dichloropropene	500 U	4380	4980	88	5100	4980	103	14-139	16	30
m,p-Xylenes	100 DJ	8050	9950	80	10500	9950	104	20-135	26	30
o-Xylene	38 DJ	4250	4980	85	5340	4980	107	26-137	23	30
trans-1,2-Dichloroethene	500 U	3660	4980	74	5080	4980	102	34-128	32*	30
trans-1,3-Dichloropropene	500 U	4500	4980	90	5100	4980	103	17-155	13	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914460-04	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	12/11/19 10:46	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	12/11/19 10:46	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	12/11/19 10:46	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	0.20	1	12/11/19 10:46	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	12/11/19 10:46	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.29	1	12/11/19 10:46	
1,2,3-Trichlorobenzene	5.0 U	5.0	0.52	1	12/11/19 10:46	
1,2,4-Trichlorobenzene	5.0 U	5.0	0.42	1	12/11/19 10:46	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	0.29	1	12/11/19 10:46	
1,2-Dibromoethane	5.0 U	5.0	0.20	1	12/11/19 10:46	
1,2-Dichlorobenzene	5.0 U	5.0	0.20	1	12/11/19 10:46	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	12/11/19 10:46	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	12/11/19 10:46	
1,3-Dichlorobenzene	5.0 U	5.0	0.20	1	12/11/19 10:46	
1,4-Dichlorobenzene	5.0 U	5.0	0.22	1	12/11/19 10:46	
1,4-Dioxane	100 U	100	20	1	12/11/19 10:46	
2-Butanone (MEK)	5.0 U	5.0	2.0	1	12/11/19 10:46	
2-Hexanone	5.0 U	5.0	0.36	1	12/11/19 10:46	
4-Methyl-2-pentanone	5.0 U	5.0	0.23	1	12/11/19 10:46	
Acetone	5.0 U	5.0	4.7	1	12/11/19 10:46	
Benzene	5.0 U	5.0	0.20	1	12/11/19 10:46	
Bromochloromethane	5.0 U	5.0	0.20	1	12/11/19 10:46	
Bromodichloromethane	5.0 U	5.0	0.20	1	12/11/19 10:46	
Bromoform	5.0 U	5.0	0.50	1	12/11/19 10:46	
Bromomethane	5.0 U	5.0	2.1	1	12/11/19 10:46	
Carbon Disulfide	5.0 U	5.0	0.29	1	12/11/19 10:46	
Carbon Tetrachloride	5.0 U	5.0	0.26	1	12/11/19 10:46	
Chlorobenzene	5.0 U	5.0	0.20	1	12/11/19 10:46	
Chloroethane	5.0 U	5.0	0.20	1	12/11/19 10:46	
Chloroform	5.0 U	5.0	0.20	1	12/11/19 10:46	
Chloromethane	5.0 U	5.0	1.4	1	12/11/19 10:46	
Cyclohexane	5.0 U	5.0	0.26	1	12/11/19 10:46	
Dibromochloromethane	5.0 U	5.0	0.20	1	12/11/19 10:46	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	0.33	1	12/11/19 10:46	
Dichloromethane	5.0 U	5.0	2.8	1	12/11/19 10:46	
Ethylbenzene	5.0 U	5.0	0.20	1	12/11/19 10:46	
Isopropylbenzene (Cumene)	5.0 U	5.0	0.20	1	12/11/19 10:46	
Methyl Acetate	5.0 U	5.0	0.84	1	12/11/19 10:46	
Methyl tert-Butyl Ether	5.0 U	5.0	0.20	1	12/11/19 10:46	
Methylcyclohexane	5.0 U	5.0	0.31	1	12/11/19 10:46	
Styrene	5.0 U	5.0	0.20	1	12/11/19 10:46	
Tetrachloroethene (PCE)	5.0 U	5.0	0.23	1	12/11/19 10:46	
Toluene	5.0 U	5.0	0.20	1	12/11/19 10:46	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914460-04	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	12/11/19 10:46	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	0.26	1	12/11/19 10:46	
Vinyl Chloride	5.0 U	5.0	0.46	1	12/11/19 10:46	
cis-1,2-Dichloroethene	5.0 U	5.0	0.20	1	12/11/19 10:46	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	12/11/19 10:46	
m,p-Xylenes	10 U	10	0.37	1	12/11/19 10:46	
o-Xylene	5.0 U	5.0	0.20	1	12/11/19 10:46	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	12/11/19 10:46	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	12/11/19 10:46	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	31 - 154	12/11/19 10:46	
Dibromofluoromethane	96	63 - 138	12/11/19 10:46	
Toluene-d8	99	66 - 138	12/11/19 10:46	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1914520-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.21	1	12/12/19 12:35	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	12/12/19 12:35	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	12/12/19 12:35	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	12/12/19 12:35	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	12/12/19 12:35	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.25	1	12/12/19 12:35	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.20	1	12/12/19 12:35	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.25	1	12/12/19 12:35	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	12/12/19 12:35	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	12/12/19 12:35	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	12/12/19 12:35	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	12/12/19 12:35	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	12/12/19 12:35	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	12/12/19 12:35	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	12/12/19 12:35	
1,4-Dioxane	40 U	40	13	1	12/12/19 12:35	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	12/12/19 12:35	
2-Hexanone	5.0 U	5.0	0.20	1	12/12/19 12:35	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	12/12/19 12:35	
Acetone	**11**	5.0	2.1	1	12/12/19 12:35	
Benzene	1.0 U	1.0	0.20	1	12/12/19 12:35	
Bromochloromethane	1.0 U	1.0	0.24	1	12/12/19 12:35	
Bromodichloromethane	1.0 U	1.0	0.22	1	12/12/19 12:35	
Bromoform	1.0 U	1.0	0.25	1	12/12/19 12:35	
Bromomethane	1.0 U	1.0	0.70	1	12/12/19 12:35	
Carbon Disulfide	1.0 U	1.0	0.25	1	12/12/19 12:35	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	12/12/19 12:35	
Chlorobenzene	1.0 U	1.0	0.20	1	12/12/19 12:35	
Chloroethane	1.0 U	1.0	0.23	1	12/12/19 12:35	
Chloroform	1.0 U	1.0	0.24	1	12/12/19 12:35	
Chloromethane	1.0 U	1.0	0.28	1	12/12/19 12:35	
Cyclohexane	1.0 U	1.0	0.26	1	12/12/19 12:35	
Dibromochloromethane	1.0 U	1.0	0.20	1	12/12/19 12:35	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	12/12/19 12:35	
Dichloromethane	1.0 U	1.0	0.36	1	12/12/19 12:35	
Ethylbenzene	1.0 U	1.0	0.20	1	12/12/19 12:35	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	12/12/19 12:35	
Methyl Acetate	2.0 U	2.0	0.33	1	12/12/19 12:35	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	12/12/19 12:35	
Methylcyclohexane	1.0 U	1.0	0.20	1	12/12/19 12:35	
Styrene	1.0 U	1.0	0.20	1	12/12/19 12:35	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	12/12/19 12:35	
Toluene	1.0 U	1.0	0.20	1	12/12/19 12:35	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1914520-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	12/12/19 12:35	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	12/12/19 12:35	
Vinyl Chloride	1.0 U	1.0	0.20	1	12/12/19 12:35	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	12/12/19 12:35	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	12/12/19 12:35	
m,p-Xylenes	2.0 U	2.0	0.20	1	12/12/19 12:35	
o-Xylene	1.0 U	1.0	0.20	1	12/12/19 12:35	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	12/12/19 12:35	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	12/12/19 12:35	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	12/12/19 12:35	
Dibromofluoromethane	93	89 - 119	12/12/19 12:35	
Toluene-d8	98	87 - 121	12/12/19 12:35	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914665-04	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	250 U	250	10	50	12/16/19 14:07	
1,1,2,2-Tetrachloroethane	250 U	250	10	50	12/16/19 14:07	
1,1,2-Trichloroethane	250 U	250	10	50	12/16/19 14:07	
1,1,2-Trichloro-1,2,2-trifluoroethane	250 U	250	10	50	12/16/19 14:07	
1,1-Dichloroethane (1,1-DCA)	250 U	250	10	50	12/16/19 14:07	
1,1-Dichloroethene (1,1-DCE)	250 U	250	15	50	12/16/19 14:07	
1,2,3-Trichlorobenzene	250 U	250	26	50	12/16/19 14:07	
1,2,4-Trichlorobenzene	250 U	250	21	50	12/16/19 14:07	
1,2-Dibromo-3-chloropropane (DBCP)	250 U	250	15	50	12/16/19 14:07	
1,2-Dibromoethane	250 U	250	10	50	12/16/19 14:07	
1,2-Dichlorobenzene	250 U	250	10	50	12/16/19 14:07	
1,2-Dichloroethane	250 U	250	10	50	12/16/19 14:07	
1,2-Dichloropropane	250 U	250	10	50	12/16/19 14:07	
1,3-Dichlorobenzene	250 U	250	10	50	12/16/19 14:07	
1,4-Dichlorobenzene	250 U	250	11	50	12/16/19 14:07	
1,4-Dioxane	5000 U	5000	1000	50	12/16/19 14:07	
2-Butanone (MEK)	250 U	250	100	50	12/16/19 14:07	
2-Hexanone	250 U	250	18	50	12/16/19 14:07	
4-Methyl-2-pentanone	250 U	250	12	50	12/16/19 14:07	
Acetone	250 U	250	240	50	12/16/19 14:07	
Benzene	250 U	250	10	50	12/16/19 14:07	
Bromochloromethane	250 U	250	10	50	12/16/19 14:07	
Bromodichloromethane	250 U	250	10	50	12/16/19 14:07	
Bromoform	250 U	250	25	50	12/16/19 14:07	
Bromomethane	250 U	250	110	50	12/16/19 14:07	
Carbon Disulfide	250 U	250	15	50	12/16/19 14:07	
Carbon Tetrachloride	250 U	250	13	50	12/16/19 14:07	
Chlorobenzene	250 U	250	10	50	12/16/19 14:07	
Chloroethane	250 U	250	10	50	12/16/19 14:07	
Chloroform	250 U	250	10	50	12/16/19 14:07	
Chloromethane	250 U	250	70	50	12/16/19 14:07	
Cyclohexane	250 U	250	13	50	12/16/19 14:07	
Dibromochloromethane	250 U	250	10	50	12/16/19 14:07	
Dichlorodifluoromethane (CFC 12)	250 U	250	17	50	12/16/19 14:07	
Dichloromethane	250 U	250	140	50	12/16/19 14:07	
Ethylbenzene	250 U	250	10	50	12/16/19 14:07	
Isopropylbenzene (Cumene)	250 U	250	10	50	12/16/19 14:07	
Methyl Acetate	250 U	250	42	50	12/16/19 14:07	
Methyl tert-Butyl Ether	250 U	250	10	50	12/16/19 14:07	
Methylcyclohexane	250 U	250	16	50	12/16/19 14:07	
Styrene	250 U	250	10	50	12/16/19 14:07	
Tetrachloroethene (PCE)	250 U	250	12	50	12/16/19 14:07	
Toluene	250 U	250	10	50	12/16/19 14:07	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914665-04	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	250 U	250	11	50	12/16/19 14:07	
Trichlorofluoromethane (CFC 11)	250 U	250	13	50	12/16/19 14:07	
Vinyl Chloride	250 U	250	23	50	12/16/19 14:07	
cis-1,2-Dichloroethene	250 U	250	10	50	12/16/19 14:07	
cis-1,3-Dichloropropene	250 U	250	10	50	12/16/19 14:07	
m,p-Xylenes	500 U	500	19	50	12/16/19 14:07	
o-Xylene	250 U	250	10	50	12/16/19 14:07	
trans-1,2-Dichloroethene	250 U	250	10	50	12/16/19 14:07	
trans-1,3-Dichloropropene	250 U	250	10	50	12/16/19 14:07	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	31 - 154	12/16/19 14:07	
Dibromofluoromethane	88	63 - 138	12/16/19 14:07	
Toluene-d8	96	66 - 138	12/16/19 14:07	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914737-04	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	250 U	250	10	50	12/17/19 11:20	
1,1,2,2-Tetrachloroethane	250 U	250	10	50	12/17/19 11:20	
1,1,2-Trichloroethane	250 U	250	10	50	12/17/19 11:20	
1,1,2-Trichloro-1,2,2-trifluoroethane	250 U	250	10	50	12/17/19 11:20	
1,1-Dichloroethane (1,1-DCA)	250 U	250	10	50	12/17/19 11:20	
1,1-Dichloroethene (1,1-DCE)	250 U	250	15	50	12/17/19 11:20	
1,2,3-Trichlorobenzene	250 U	250	26	50	12/17/19 11:20	
1,2,4-Trichlorobenzene	250 U	250	21	50	12/17/19 11:20	
1,2-Dibromo-3-chloropropane (DBCP)	250 U	250	15	50	12/17/19 11:20	
1,2-Dibromoethane	250 U	250	10	50	12/17/19 11:20	
1,2-Dichlorobenzene	250 U	250	10	50	12/17/19 11:20	
1,2-Dichloroethane	250 U	250	10	50	12/17/19 11:20	
1,2-Dichloropropane	250 U	250	10	50	12/17/19 11:20	
1,3-Dichlorobenzene	250 U	250	10	50	12/17/19 11:20	
1,4-Dichlorobenzene	250 U	250	11	50	12/17/19 11:20	
1,4-Dioxane	5000 U	5000	1000	50	12/17/19 11:20	
2-Butanone (MEK)	250 U	250	100	50	12/17/19 11:20	
2-Hexanone	250 U	250	18	50	12/17/19 11:20	
4-Methyl-2-pentanone	250 U	250	12	50	12/17/19 11:20	
Acetone	250 U	250	240	50	12/17/19 11:20	
Benzene	250 U	250	10	50	12/17/19 11:20	
Bromochloromethane	250 U	250	10	50	12/17/19 11:20	
Bromodichloromethane	250 U	250	10	50	12/17/19 11:20	
Bromoform	250 U	250	25	50	12/17/19 11:20	
Bromomethane	250 U	250	110	50	12/17/19 11:20	
Carbon Disulfide	250 U	250	15	50	12/17/19 11:20	
Carbon Tetrachloride	250 U	250	13	50	12/17/19 11:20	
Chlorobenzene	250 U	250	10	50	12/17/19 11:20	
Chloroethane	250 U	250	10	50	12/17/19 11:20	
Chloroform	250 U	250	10	50	12/17/19 11:20	
Chloromethane	250 U	250	70	50	12/17/19 11:20	
Cyclohexane	250 U	250	13	50	12/17/19 11:20	
Dibromochloromethane	250 U	250	10	50	12/17/19 11:20	
Dichlorodifluoromethane (CFC 12)	250 U	250	17	50	12/17/19 11:20	
Dichloromethane	250 U	250	140	50	12/17/19 11:20	
Ethylbenzene	250 U	250	10	50	12/17/19 11:20	
Isopropylbenzene (Cumene)	250 U	250	10	50	12/17/19 11:20	
Methyl Acetate	250 U	250	42	50	12/17/19 11:20	
Methyl tert-Butyl Ether	250 U	250	10	50	12/17/19 11:20	
Methylcyclohexane	250 U	250	16	50	12/17/19 11:20	
Styrene	250 U	250	10	50	12/17/19 11:20	
Tetrachloroethene (PCE)	250 U	250	12	50	12/17/19 11:20	
Toluene	250 U	250	10	50	12/17/19 11:20	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914737-04	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	250 U	250	11	50	12/17/19 11:20	
Trichlorofluoromethane (CFC 11)	250 U	250	13	50	12/17/19 11:20	
Vinyl Chloride	250 U	250	23	50	12/17/19 11:20	
cis-1,2-Dichloroethene	250 U	250	10	50	12/17/19 11:20	
cis-1,3-Dichloropropene	250 U	250	10	50	12/17/19 11:20	
m,p-Xylenes	500 U	500	19	50	12/17/19 11:20	
o-Xylene	250 U	250	10	50	12/17/19 11:20	
trans-1,2-Dichloroethene	250 U	250	10	50	12/17/19 11:20	
trans-1,3-Dichloropropene	250 U	250	10	50	12/17/19 11:20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	89	31 - 154	12/17/19 11:20	
Dibromofluoromethane	82	63 - 138	12/17/19 11:20	
Toluene-d8	94	66 - 138	12/17/19 11:20	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

Service Request: R1911945
Date Analyzed: 12/11/19

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/Kg
Basis: Dry

Lab Control Sample
RQ1914460-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	20.2	20.0	101	68-123
1,1,2,2-Tetrachloroethane	8260C	20.4	20.0	102	78-121
1,1,2-Trichloroethane	8260C	20.4	20.0	102	84-117
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	20.5	20.0	102	54-121
1,1-Dichloroethane (1,1-DCA)	8260C	20.1	20.0	100	76-123
1,1-Dichloroethene (1,1-DCE)	8260C	19.8	20.0	99	65-115
1,2,3-Trichlorobenzene	8260C	18.2	20.0	91	60-128
1,2,4-Trichlorobenzene	8260C	18.7	20.0	93	62-130
1,2-Dibromo-3-chloropropane (DBCP)	8260C	18.9	20.0	94	54-135
1,2-Dibromoethane	8260C	20.0	20.0	100	77-117
1,2-Dichlorobenzene	8260C	18.7	20.0	93	75-116
1,2-Dichloroethane	8260C	19.4	20.0	97	74-116
1,2-Dichloropropane	8260C	20.8	20.0	104	79-112
1,3-Dichlorobenzene	8260C	19.6	20.0	98	72-118
1,4-Dichlorobenzene	8260C	19.3	20.0	97	72-117
1,4-Dioxane	8260C	334	400	83	59-147
2-Butanone (MEK)	8260C	17.2	20.0	86	67-129
2-Hexanone	8260C	19.6	20.0	98	68-118
4-Methyl-2-pentanone	8260C	19.7	20.0	98	64-123
Acetone	8260C	17.8	20.0	89	32-154
Benzene	8260C	20.8	20.0	104	77-114
Bromochloromethane	8260C	20.3	20.0	101	78-117
Bromodichloromethane	8260C	20.0	20.0	100	72-118
Bromoform	8260C	20.4	20.0	102	55-134
Bromomethane	8260C	15.8	20.0	79	10-150
Carbon Disulfide	8260C	20.7	20.0	104	44-139
Carbon Tetrachloride	8260C	20.5	20.0	103	51-123
Chlorobenzene	8260C	20.3	20.0	101	79-115
Chloroethane	8260C	18.9	20.0	94	10-140
Chloroform	8260C	20.0	20.0	100	76-115
Chloromethane	8260C	20.8	20.0	104	10-131
Cyclohexane	8260C	20.7	20.0	103	67-122
Dibromochloromethane	8260C	21.1	20.0	105	68-121

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

Service Request: R1911945
Date Analyzed: 12/11/19

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/Kg
Basis: Dry

Lab Control Sample
RQ1914460-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	8260C	21.5	20.0	108	51-144
Dichloromethane	8260C	17.9	20.0	89	72-118
Ethylbenzene	8260C	20.2	20.0	101	64-118
Isopropylbenzene (Cumene)	8260C	20.0	20.0	100	60-123
Methyl Acetate	8260C	18.5	20.0	93	31-122
Methyl tert-Butyl Ether	8260C	20.0	20.0	100	76-118
Methylcyclohexane	8260C	21.5	20.0	107	70-124
Styrene	8260C	19.9	20.0	99	74-117
Tetrachloroethene (PCE)	8260C	20.0	20.0	100	58-124
Toluene	8260C	20.4	20.0	102	72-116
Trichloroethene (TCE)	8260C	19.6	20.0	98	69-118
Trichlorofluoromethane (CFC 11)	8260C	20.3	20.0	102	52-127
Vinyl Chloride	8260C	19.8	20.0	99	59-153
cis-1,2-Dichloroethene	8260C	20.4	20.0	102	79-113
cis-1,3-Dichloropropene	8260C	20.9	20.0	104	66-117
m,p-Xylenes	8260C	41.0	40.0	102	68-118
o-Xylene	8260C	20.4	20.0	102	71-116
trans-1,2-Dichloroethene	8260C	20.2	20.0	101	73-114
trans-1,3-Dichloropropene	8260C	20.2	20.0	101	57-135

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Water

Service Request: R1911945
Date Analyzed: 12/12/19

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1914520-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	16.8	20.0	84	75-125
1,1,2,2-Tetrachloroethane	8260C	19.5	20.0	97	78-126
1,1,2-Trichloroethane	8260C	17.7	20.0	88	82-121
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	19.8	20.0	99	67-124
1,1-Dichloroethane (1,1-DCA)	8260C	19.5	20.0	97	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	19.0	20.0	95	71-118
1,2,3-Trichlorobenzene	8260C	18.8	20.0	94	67-136
1,2,4-Trichlorobenzene	8260C	18.7	20.0	93	75-132
1,2-Dibromo-3-chloropropane (DBCP)	8260C	14.9	20.0	74	55-136
1,2-Dibromoethane	8260C	18.1	20.0	91	82-127
1,2-Dichlorobenzene	8260C	18.1	20.0	90	80-119
1,2-Dichloroethane	8260C	16.0	20.0	80	71-127
1,2-Dichloropropane	8260C	19.6	20.0	98	80-119
1,3-Dichlorobenzene	8260C	18.7	20.0	93	83-121
1,4-Dichlorobenzene	8260C	18.2	20.0	91	79-119
1,4-Dioxane	8260C	331	400	83	44-154
2-Butanone (MEK)	8260C	17.2	20.0	86	61-137
2-Hexanone	8260C	16.4	20.0	82	63-124
4-Methyl-2-pentanone	8260C	18.0	20.0	90	66-124
Acetone	8260C	21.5	20.0	107	40-161
Benzene	8260C	19.8	20.0	99	79-119
Bromochloromethane	8260C	18.6	20.0	93	81-126
Bromodichloromethane	8260C	16.4	20.0	82	81-123
Bromoform	8260C	14.4	20.0	72	65-146
Bromomethane	8260C	15.4	20.0	77	42-166
Carbon Disulfide	8260C	21.0	20.0	105	66-128
Carbon Tetrachloride	8260C	15.7	20.0	78	70-127
Chlorobenzene	8260C	18.7	20.0	94	80-121
Chloroethane	8260C	17.8	20.0	89	62-131
Chloroform	8260C	18.1	20.0	91	79-120
Chloromethane	8260C	19.7	20.0	98	65-135
Cyclohexane	8260C	20.2	20.0	101	69-120
Dibromochloromethane	8260C	16.3	20.0	82	72-128

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Water

Service Request: R1911945
Date Analyzed: 12/12/19

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1914520-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	8260C	18.7	20.0	93	59-155
Dichloromethane	8260C	18.5	20.0	93	73-122
Ethylbenzene	8260C	18.9	20.0	95	76-120
Isopropylbenzene (Cumene)	8260C	19.3	20.0	97	77-128
Methyl Acetate	8260C	19.4	20.0	97	40-112
Methyl tert-Butyl Ether	8260C	18.1	20.0	90	75-118
Methylcyclohexane	8260C	21.0	20.0	105	51-129
Styrene	8260C	17.7	20.0	88	80-124
Tetrachloroethene (PCE)	8260C	19.3	20.0	97	72-125
Toluene	8260C	20.0	20.0	100	79-119
Trichloroethene (TCE)	8260C	17.3	20.0	86	74-122
Trichlorofluoromethane (CFC 11)	8260C	19.3	20.0	96	71-136
Vinyl Chloride	8260C	19.2	20.0	96	74-159
cis-1,2-Dichloroethene	8260C	19.0	20.0	95	80-121
cis-1,3-Dichloropropene	8260C	16.8	20.0	84	77-122
m,p-Xylenes	8260C	39.8	40.0	100	80-126
o-Xylene	8260C	19.2	20.0	96	79-123
trans-1,2-Dichloroethene	8260C	18.7	20.0	94	73-118
trans-1,3-Dichloropropene	8260C	15.9	20.0	80	71-133

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

Service Request: R1911945
Date Analyzed: 12/16/19

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/Kg
Basis: Dry

Lab Control Sample
RQ1914665-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	17.7	20.0	89	68-123
1,1,2,2-Tetrachloroethane	8260C	20.7	20.0	103	78-121
1,1,2-Trichloroethane	8260C	20.5	20.0	102	84-117
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	18.6	20.0	93	54-121
1,1-Dichloroethane (1,1-DCA)	8260C	19.6	20.0	98	76-123
1,1-Dichloroethene (1,1-DCE)	8260C	19.0	20.0	95	65-115
1,2,3-Trichlorobenzene	8260C	22.0	20.0	110	60-128
1,2,4-Trichlorobenzene	8260C	22.7	20.0	114	62-130
1,2-Dibromo-3-chloropropane (DBCP)	8260C	19.2	20.0	96	54-135
1,2-Dibromoethane	8260C	20.1	20.0	100	77-117
1,2-Dichlorobenzene	8260C	21.1	20.0	106	75-116
1,2-Dichloroethane	8260C	18.1	20.0	91	74-116
1,2-Dichloropropane	8260C	21.1	20.0	105	79-112
1,3-Dichlorobenzene	8260C	20.5	20.0	102	72-118
1,4-Dichlorobenzene	8260C	19.8	20.0	99	72-117
1,4-Dioxane	8260C	399	400	100	59-147
2-Butanone (MEK)	8260C	18.3	20.0	91	67-129
2-Hexanone	8260C	17.8	20.0	89	68-118
4-Methyl-2-pentanone	8260C	17.8	20.0	89	64-123
Acetone	8260C	17.2	20.0	86	32-154
Benzene	8260C	20.5	20.0	102	77-114
Bromochloromethane	8260C	20.1	20.0	100	78-117
Bromodichloromethane	8260C	17.9	20.0	90	72-118
Bromoform	8260C	19.5	20.0	97	55-134
Bromomethane	8260C	9.12	20.0	46	10-150
Carbon Disulfide	8260C	17.2	20.0	86	44-139
Carbon Tetrachloride	8260C	16.9	20.0	84	51-123
Chlorobenzene	8260C	19.8	20.0	99	79-115
Chloroethane	8260C	11.4	20.0	57	10-140
Chloroform	8260C	18.9	20.0	94	76-115
Chloromethane	8260C	21.9	20.0	109	10-131
Cyclohexane	8260C	19.6	20.0	98	67-122
Dibromochloromethane	8260C	18.8	20.0	94	68-121

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

Service Request: R1911945
Date Analyzed: 12/16/19

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/Kg
Basis: Dry

Lab Control Sample
RQ1914665-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	8260C	20.6	20.0	103	51-144
Dichloromethane	8260C	19.6	20.0	98	72-118
Ethylbenzene	8260C	19.5	20.0	97	64-118
Isopropylbenzene (Cumene)	8260C	19.1	20.0	96	60-123
Methyl Acetate	8260C	18.7	20.0	93	31-122
Methyl tert-Butyl Ether	8260C	20.0	20.0	100	76-118
Methylcyclohexane	8260C	21.7	20.0	108	70-124
Styrene	8260C	20.3	20.0	101	74-117
Tetrachloroethene (PCE)	8260C	19.3	20.0	97	58-124
Toluene	8260C	19.8	20.0	99	72-116
Trichloroethene (TCE)	8260C	18.6	20.0	93	69-118
Trichlorofluoromethane (CFC 11)	8260C	17.3	20.0	87	52-127
Vinyl Chloride	8260C	19.9	20.0	99	59-153
cis-1,2-Dichloroethene	8260C	20.5	20.0	103	79-113
cis-1,3-Dichloropropene	8260C	19.5	20.0	98	66-117
m,p-Xylenes	8260C	39.8	40.0	99	68-118
o-Xylene	8260C	20.3	20.0	102	71-116
trans-1,2-Dichloroethene	8260C	19.7	20.0	98	73-114
trans-1,3-Dichloropropene	8260C	19.4	20.0	97	57-135

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

Service Request: R1911945
Date Analyzed: 12/17/19

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/Kg
Basis: Dry

Lab Control Sample
RQ1914737-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	17.0	20.0	85	68-123
1,1,2,2-Tetrachloroethane	8260C	21.0	20.0	105	78-121
1,1,2-Trichloroethane	8260C	20.5	20.0	102	84-117
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	18.2	20.0	91	54-121
1,1-Dichloroethane (1,1-DCA)	8260C	19.3	20.0	96	76-123
1,1-Dichloroethene (1,1-DCE)	8260C	19.1	20.0	95	65-115
1,2,3-Trichlorobenzene	8260C	21.8	20.0	109	60-128
1,2,4-Trichlorobenzene	8260C	21.9	20.0	110	62-130
1,2-Dibromo-3-chloropropane (DBCP)	8260C	20.0	20.0	100	54-135
1,2-Dibromoethane	8260C	20.3	20.0	101	77-117
1,2-Dichlorobenzene	8260C	20.5	20.0	102	75-116
1,2-Dichloroethane	8260C	17.8	20.0	89	74-116
1,2-Dichloropropane	8260C	20.6	20.0	103	79-112
1,3-Dichlorobenzene	8260C	19.4	20.0	97	72-118
1,4-Dichlorobenzene	8260C	19.3	20.0	96	72-117
1,4-Dioxane	8260C	437	400	109	59-147
2-Butanone (MEK)	8260C	19.2	20.0	96	67-129
2-Hexanone	8260C	19.6	20.0	98	68-118
4-Methyl-2-pentanone	8260C	19.4	20.0	97	64-123
Acetone	8260C	18.3	20.0	91	32-154
Benzene	8260C	20.5	20.0	102	77-114
Bromochloromethane	8260C	19.8	20.0	99	78-117
Bromodichloromethane	8260C	17.7	20.0	88	72-118
Bromoform	8260C	19.3	20.0	96	55-134
Bromomethane	8260C	8.86	20.0	44	10-150
Carbon Disulfide	8260C	15.5	20.0	77	44-139
Carbon Tetrachloride	8260C	16.2	20.0	81	51-123
Chlorobenzene	8260C	19.4	20.0	97	79-115
Chloroethane	8260C	11.0	20.0	55	10-140
Chloroform	8260C	18.8	20.0	94	76-115
Chloromethane	8260C	21.1	20.0	105	10-131
Cyclohexane	8260C	18.9	20.0	94	67-122
Dibromochloromethane	8260C	18.7	20.0	93	68-121

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

Service Request: R1911945
Date Analyzed: 12/17/19

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/Kg
Basis: Dry

Lab Control Sample
RQ1914737-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	8260C	20.1	20.0	100	51-144
Dichloromethane	8260C	19.4	20.0	97	72-118
Ethylbenzene	8260C	19.1	20.0	96	64-118
Isopropylbenzene (Cumene)	8260C	18.7	20.0	94	60-123
Methyl Acetate	8260C	22.2	20.0	111	31-122
Methyl tert-Butyl Ether	8260C	20.1	20.0	100	76-118
Methylcyclohexane	8260C	20.6	20.0	103	70-124
Styrene	8260C	19.9	20.0	99	74-117
Tetrachloroethene (PCE)	8260C	19.3	20.0	96	58-124
Toluene	8260C	19.3	20.0	97	72-116
Trichloroethene (TCE)	8260C	18.6	20.0	93	69-118
Trichlorofluoromethane (CFC 11)	8260C	17.0	20.0	85	52-127
Vinyl Chloride	8260C	19.8	20.0	99	59-153
cis-1,2-Dichloroethene	8260C	20.1	20.0	101	79-113
cis-1,3-Dichloropropene	8260C	19.5	20.0	98	66-117
m,p-Xylenes	8260C	39.3	40.0	98	68-118
o-Xylene	8260C	19.8	20.0	99	71-116
trans-1,2-Dichloroethene	8260C	19.8	20.0	99	73-114
trans-1,3-Dichloropropene	8260C	19.1	20.0	95	57-135

Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Leader Professional Services, Inc. **Service Request:** R1911945
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3541

Sample Name	Lab Code	2,4,6-Tribromophenol 10-109	2-Fluorobiphenyl 10-102	2-Fluorophenol 10-88
SB2 1-2	R1911945-001	66	52	49
SB2 4-6	R1911945-002	37	26	16
SB2 15-17	R1911945-003	59	41	39
SB3 1-2	R1911945-004	73	53	52
SB3 4-6	R1911945-005	67	52	53
SB3 10-12	R1911945-006	68	47	39
SB4 1-2	R1911945-009	41	31	29
SB4 1-2 Dup	R1911945-010	63	39	33
SB4 16-18	R1911945-011	64	37	40
SB5 3-5	R1911945-012	75	47	47
SB5 7-8	R1911945-013	53	42	40
SB5 12-14	R1911945-014	57	46	43
Method Blank	RQ1914346-05	50	48	46
Lab Control Sample	RQ1914346-06	68	55	52
Duplicate Lab Control Sample	RQ1914346-07	70	58	55
SB4 1-2 MS	RQ1914346-01	64	52	50
SB4 1-2 DMS	RQ1914346-02	72	48	39
SB4 1-2 Dup MS	RQ1914346-03	64	44	37
SB4 1-2 Dup DMS	RQ1914346-04	78	53	49

Client: Leader Professional Services, Inc. **Service Request:** R1911945
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3541

Sample Name	Lab Code	Nitrobenzene-d5 10-95	Phenol-d6 10-145	Terphenyl-d14 10-106
SB2 1-2	R1911945-001	53	51	69
SB2 4-6	R1911945-002	58	21	39
SB2 15-17	R1911945-003	48	40	64
SB3 1-2	R1911945-004	56	52	74
SB3 4-6	R1911945-005	78	53	75
SB3 10-12	R1911945-006	43	42	84
SB4 1-2	R1911945-009	32	30	56
SB4 1-2 Dup	R1911945-010	32	36	83
SB4 16-18	R1911945-011	39	40	82
SB5 3-5	R1911945-012	47	47	88
SB5 7-8	R1911945-013	45	41	54
SB5 12-14	R1911945-014	47	45	71
Method Blank	RQ1914346-05	51	48	69
Lab Control Sample	RQ1914346-06	54	51	74
Duplicate Lab Control Sample	RQ1914346-07	59	55	76
SB4 1-2 MS	RQ1914346-01	54	50	73
SB4 1-2 DMS	RQ1914346-02	44	43	91
SB4 1-2 Dup MS	RQ1914346-03	41	41	76
SB4 1-2 Dup DMS	RQ1914346-04	51	50	85

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19
Sample Matrix:	Soil	**Date Received:**	12/05/19
		Date Analyzed:	12/17/19
		Date Extracted:	12/10/19

Duplicate Matrix Spike Summary
Semivolatile Organic Compounds by GC/MS

Sample Name:	SB4 1-2	**Units:**	ug/Kg
Lab Code:	R1911945-009	**Basis:**	Dry
Analysis Method:	8270D		
Prep Method:	EPA 3541		

		Matrix Spike			Duplicate Matrix Spike					
		RQ1914346-01			RQ1914346-02					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,2,4,5-Tetrachlorobenzene	380 U	1050	1930	54	921	1970	47	10-115	14	30
2,3,4,6-Tetrachlorophenol	380 U	1200	1920	63	1390	1960	71	10-123	12	30
2,4,5-Trichlorophenol	380 U	1230	1920	64	1280	1960	65	12-109	2	30
2,4,6-Trichlorophenol	380 U	1240	1920	64	1230	1960	63	13-149	2	30
2,4-Dichlorophenol	380 U	1120	1920	58	1060	1960	54	16-98	7	30
2,4-Dimethylphenol	380 U	1080	1920	56	1050	1960	54	10-98	4	30
2,4-Dinitrophenol	2000 U	966 J	1920	50	1190 J	1960	60	10-129	18	30
2,4-Dinitrotoluene	380 U	1410	1920	73	1630	1960	83	10-124	13	30
2,6-Dinitrotoluene	380 U	1340	1920	70	1370	1960	70	13-112	<1	30
2-Chloronaphthalene	380 U	1090	1920	57	1020	1960	52	10-94	9	30
2-Chlorophenol	380 U	1030	1920	53	856	1960	44	14-99	19	30
2-Methylnaphthalene	380 U	1020	1920	53	909	1960	46	10-90	14	30
2-Methylphenol	380 U	1090	1920	57	974	1960	50	10-86	13	30
2-Nitroaniline	2000 U	1530 J	1920	80	1530 J	1960	78	10-109	3	30
2-Nitrophenol	380 U	1190	1920	62	993	1960	51	10-90	19	30
3,3'-Dichlorobenzidine	380 U	1220	1920	63	1570	1960	80	10-118	24	30
3- and 4-Methylphenol Coelution	380 U	995	1920	52	918	1960	47	11-101	10	30
3-Nitroaniline	2000 U	1210 J	1920	63	1430 J	1960	73	10-104	15	30
4,6-Dinitro-2-methylphenol	2000 U	1070 J	1920	55	1430 J	1960	73	10-123	28	30
4-Bromophenyl Phenyl Ether	380 U	1100	1920	57	1200	1960	61	10-99	7	30
4-Chloro-3-methylphenol	380 U	1230	1920	64	1220	1960	62	10-108	3	30
4-Chloroaniline	380 U	848	1920	44	857	1960	44	10-91	<1	30
4-Chlorophenyl Phenyl Ether	380 U	969	1920	50	995	1960	51	10-95	2	30
4-Nitroaniline	2000 U	1190 J	1920	62	1530 J	1960	78	10-137	23	30
4-Nitrophenol	2000 U	1430 J	1920	74	1700 J	1960	87	10-130	16	30
Acenaphthene	380 U	1160	1920	60	1120	1960	57	10-100	5	30
Acenaphthylene	380 U	1240	1920	64	1200	1960	61	10-102	5	30
Acetophenone	380 U	1970	3850	51	1620	3920	41	12-99	22	30
Anthracene	380 U	1210	1920	63	1410	1960	72	10-129	13	30
Atrazine	380 U	1370	1920	71	1700 E	1960	87	15-133	20	30
Benz(a)anthracene	380 U	1180	1920	61	1510	1960	77	10-122	23	30
Benzaldehyde	2000 U	1030 J	1920	53	748 J	1960	38	10-103	33*	30
Benzo(a)pyrene	380 U	1370	1920	71	1730	1960	89	10-122	23	30
Benzo(b)fluoranthene	380 U	1230	1920	64	1530	1960	78	10-112	20	30
Benzo(g,h,i)perylene	380 U	1300	1920	68	1650	1960	84	10-136	21	30

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Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19
Sample Matrix:	Soil	**Date Received:**	12/05/19
		Date Analyzed:	12/17/19
		Date Extracted:	12/10/19

Duplicate Matrix Spike Summary
Semivolatile Organic Compounds by GC/MS

Sample Name:	SB4 1-2	**Units:**	ug/Kg
Lab Code:	R1911945-009	**Basis:**	Dry
Analysis Method:	8270D		
Prep Method:	EPA 3541		

		Matrix Spike			Duplicate Matrix Spike					
		RQ1914346-01			RQ1914346-02					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Benzo(k)fluoranthene	380 U	1350	1920	70	1710	1960	87	10-112	22	30
Biphenyl	380 U	1090	1920	57	995	1960	51	10-99	11	30
2,2'-Oxybis(1-chloropropane)	380 U	810	1920	42	633	1960	32	10-87	27	30
Bis(2-chloroethoxy)methane	380 U	965	1920	50	837	1960	43	16-93	15	30
Bis(2-chloroethyl) Ether	380 U	845	1920	44	665	1960	34	10-79	26	30
Bis(2-ethylhexyl) Phthalate	580 U	1400	1920	73	1820	1960	93	10-116	24	30
Butyl Benzyl Phthalate	380 U	1330	1920	69	1730	1960	88	10-128	24	30
Caprolactam	380 U	1160	1920	60	1420	1960	73	10-112	20	30
Carbazole	380 U	1320	1920	68	1630	1960	83	10-138	20	30
Chrysene	380 U	1290	1920	67	1620	1960	83	10-113	21	30
Di-n-butyl Phthalate	380 U	1430	1920	74	1740	1960	89	10-119	18	30
Di-n-octyl Phthalate	380 U	1380	1920	72	1800	1960	92	10-121	24	30
Dibenz(a,h)anthracene	380 U	711	1920	37	951	1960	49	10-130	28	30
Dibenzofuran	380 U	1180	1920	61	1160	1960	59	10-102	3	30
Diethyl Phthalate	380 U	1170	1920	61	1450	1960	74	10-101	19	30
Dimethyl Phthalate	380 U	1170	1920	61	1320	1960	67	10-113	9	30
Fluoranthene	380 U	1250	1920	65	1550	1960	79	10-125	19	30
Fluorene	380 U	1120	1920	58	1120	1960	57	10-109	2	30
Hexachlorobenzene	380 U	1230	1920	64	1370	1960	70	10-106	9	30
Hexachlorobutadiene	380 U	952	1920	50	734	1960	37	10-142	30	30
Hexachlorocyclopentadiene	380 U	714	1920	37	575	1960	29	10-133	24	30
Hexachloroethane	380 U	754	1920	39	562	1960	29	10-129	29	30
Indeno(1,2,3-cd)pyrene	380 U	1260	1920	66	1600	1960	82	10-124	22	30
Isophorone	380 U	893	1920	46	813	1960	41	10-81	11	30
N-Nitrosodi-n-propylamine	380 U	1040	1920	54	907	1960	46	10-76	16	30
N-Nitrosodiphenylamine	380 U	1360	1920	71	1530	1960	78	10-114	9	30
Naphthalene	380 U	1000	1920	52	841	1960	43	10-89	19	30
Nitrobenzene	380 U	984	1920	51	816	1960	42	10-77	19	30
Pentachlorophenol (PCP)	2000 U	1320 J	1920	68	1800 J	1960	92	10-118	30	30
Phenanthrene	380 U	1250	1920	65	1430	1960	73	10-137	12	30
Phenol	380 U	1080	1920	56	924	1960	47	10-144	17	30
Pyrene	380 U	1370	1920	71	1770	1960	90	10-118	24	30

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Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19
Sample Matrix:	Soil	**Date Received:**	12/05/19
		Date Analyzed:	12/18/19
		Date Extracted:	12/10/19

Duplicate Matrix Spike Summary
Semivolatile Organic Compounds by GC/MS

Sample Name:	SB4 1-2 Dup	**Units:**	ug/Kg
Lab Code:	R1911945-010	**Basis:**	Dry
Analysis Method:	8270D		
Prep Method:	EPA 3541		

		Matrix Spike			Duplicate Matrix Spike					
		RQ1914346-03			RQ1914346-04					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,2,4,5-Tetrachlorobenzene	380 U	860	1910	45	1090	1990	55	10-115	20	30
2,3,4,6-Tetrachlorophenol	380 U	1170	1900	61	1530	1990	77	10-123	23	30
2,4,5-Trichlorophenol	380 U	1150	1900	61	1460	1990	73	12-109	18	30
2,4,6-Trichlorophenol	380 U	1090	1900	57	1360	1990	68	13-149	18	30
2,4-Dichlorophenol	380 U	979	1900	52	1170	1990	59	16-98	13	30
2,4-Dimethylphenol	380 U	1010	1900	53	1210	1990	61	10-98	14	30
2,4-Dinitrophenol	1900 U	1530 J	1900	80	2030	1990	102	10-129	24	30
2,4-Dinitrotoluene	380 U	1360	1900	72	1720	1990	87	10-124	19	30
2,6-Dinitrotoluene	380 U	1230	1900	65	1550	1990	78	13-112	18	30
2-Chloronaphthalene	380 U	928	1900	49	1150	1990	58	10-94	17	30
2-Chlorophenol	380 U	783	1900	41	1060	1990	53	14-99	26	30
2-Methylnaphthalene	380 U	857	1900	45	1050	1990	53	10-90	16	30
2-Methylphenol	380 U	908	1900	48	1130	1990	57	10-86	17	30
2-Nitroaniline	1900 U	1370 J	1900	72	1670 J	1990	84	10-109	15	30
2-Nitrophenol	380 U	903	1900	48	1170	1990	59	10-90	21	30
3,3'-Dichlorobenzidine	380 U	1200	1900	63	1400	1990	70	10-118	11	30
3- and 4-Methylphenol Coelution	380 U	841	1900	44	1040	1990	52	11-101	17	30
3-Nitroaniline	1900 U	1140 J	1900	60	1420 J	1990	72	10-104	18	30
4,6-Dinitro-2-methylphenol	1900 U	1610 J	1900	85	1940 J	1990	98	10-123	14	30
4-Bromophenyl Phenyl Ether	380 U	1020	1900	54	1290	1990	65	10-99	18	30
4-Chloro-3-methylphenol	380 U	1110	1900	59	1360	1990	68	10-108	14	30
4-Chloroaniline	380 U	749	1900	39	849	1990	43	10-91	10	30
4-Chlorophenyl Phenyl Ether	380 U	906	1900	48	1100	1990	55	10-95	14	30
4-Nitroaniline	1900 U	1270 J	1900	67	1490 J	1990	75	10-137	11	30
4-Nitrophenol	1900 U	1490 J	1900	78	1780 J	1990	90	10-130	14	30
Acenaphthene	380 U	1020	1900	54	1250	1990	63	10-100	15	30
Acenaphthylene	380 U	1100	1900	58	1360	1990	68	10-102	16	30
Acetophenone	380 U	1480	3800	39	1990	3970	50	12-99	25	30
Anthracene	380 U	1210	1900	64	1510	1990	76	10-129	17	30
Atrazine	380 U	1540 E	1900	81	1840 E	1990	92	15-133	13	30
Benz(a)anthracene	380 U	1260	1900	66	1500	1990	76	10-122	14	30
Benzaldehyde	1900 U	729 J	1900	38	1060 J	1990	53	10-103	33*	30
Benzo(a)pyrene	380 U	1460	1900	77	1750	1990	88	10-122	13	30
Benzo(b)fluoranthene	380 U	1340	1900	70	1590	1990	80	10-112	13	30
Benzo(g,h,i)perylene	380 U	1450	1900	76	1760	1990	89	10-136	16	30

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Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19
Sample Matrix:	Soil	**Date Received:**	12/05/19
		Date Analyzed:	12/18/19
		Date Extracted:	12/10/19

Duplicate Matrix Spike Summary
Semivolatile Organic Compounds by GC/MS

Sample Name:	SB4 1-2 Dup	**Units:**	ug/Kg
Lab Code:	R1911945-010	**Basis:**	Dry
Analysis Method:	8270D		
Prep Method:	EPA 3541		

		Matrix Spike			Duplicate Matrix Spike					
		RQ1914346-03			RQ1914346-04					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Benzo(k)fluoranthene	380 U	1420	1900	75	1720	1990	87	10-112	15	30
Biphenyl	380 U	937	1900	49	1130	1990	57	10-99	15	30
2,2'-Oxybis(1-chloropropane)	380 U	607	1900	32	847	1990	43	10-87	29	30
Bis(2-chloroethoxy)methane	380 U	791	1900	42	965	1990	49	16-93	15	30
Bis(2-chloroethyl) Ether	380 U	623	1900	33	882	1990	44	10-79	29	30
Bis(2-ethylhexyl) Phthalate	570 U	1480	1900	78	1710	1990	86	10-116	10	30
Butyl Benzyl Phthalate	380 U	1390	1900	73	1680	1990	85	10-128	15	30
Caprolactam	380 U	1160	1900	61	1400	1990	70	10-112	14	30
Carbazole	380 U	1370	1900	72	1620	1990	82	10-138	13	30
Chrysene	380 U	1340	1900	70	1610	1990	81	10-113	15	30
Di-n-butyl Phthalate	380 U	1480	1900	78	1770	1990	89	10-119	13	30
Di-n-octyl Phthalate	380 U	1510	1900	79	1790	1990	90	10-121	13	30
Dibenz(a,h)anthracene	380 U	822	1900	43	995	1990	50	10-130	15	30
Dibenzofuran	380 U	1070	1900	56	1310	1990	66	10-102	16	30
Diethyl Phthalate	380 U	1160	1900	61	1440	1990	73	10-101	18	30
Dimethyl Phthalate	380 U	1090	1900	57	1340	1990	67	10-113	16	30
Fluoranthene	380 U	1370	1900	72	1660	1990	83	10-125	14	30
Fluorene	380 U	1020	1900	53	1270	1990	64	10-109	19	30
Hexachlorobenzene	380 U	1170	1900	61	1500	1990	75	10-106	21	30
Hexachlorobutadiene	380 U	742	1900	39	1020	1990	51	10-142	27	30
Hexachlorocyclopentadiene	380 U	621	1900	33	779	1990	39	10-133	17	30
Hexachloroethane	380 U	617	1900	32	846	1990	43	10-129	29	30
Indeno(1,2,3-cd)pyrene	380 U	1400	1900	74	1700	1990	85	10-124	14	30
Isophorone	380 U	727	1900	38	900	1990	45	10-81	17	30
N-Nitrosodi-n-propylamine	380 U	814	1900	43	1050	1990	53	10-76	21	30
N-Nitrosodiphenylamine	380 U	1300	1900	69	1640	1990	82	10-114	17	30
Naphthalene	380 U	781	1900	41	1010	1990	51	10-89	22	30
Nitrobenzene	380 U	763	1900	40	1000	1990	51	10-77	24	30
Pentachlorophenol (PCP)	1900 U	1480 J	1900	78	1830 J	1990	92	10-118	16	30
Phenanthrene	380 U	1220	1900	64	1540	1990	77	10-137	18	30
Phenol	380 U	862	1900	45	1090	1990	55	10-144	20	30
Pyrene	380 U	1420	1900	75	1730	1990	87	10-118	15	30

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Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914346-05	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	340 U	340	81	1	12/17/19 18:41	12/10/19	
2,3,4,6-Tetrachlorophenol	340 U	340	72	1	12/17/19 18:41	12/10/19	
2,4,5-Trichlorophenol	340 U	340	290	1	12/17/19 18:41	12/10/19	
2,4,6-Trichlorophenol	340 U	340	60	1	12/17/19 18:41	12/10/19	
2,4-Dichlorophenol	340 U	340	73	1	12/17/19 18:41	12/10/19	
2,4-Dimethylphenol	340 U	340	75	1	12/17/19 18:41	12/10/19	
2,4-Dinitrophenol	1800 U	1800	130	1	12/17/19 18:41	12/10/19	
2,4-Dinitrotoluene	340 U	340	140	1	12/17/19 18:41	12/10/19	
2,6-Dinitrotoluene	340 U	340	100	1	12/17/19 18:41	12/10/19	
2-Chloronaphthalene	340 U	340	82	1	12/17/19 18:41	12/10/19	
2-Chlorophenol	340 U	340	84	1	12/17/19 18:41	12/10/19	
2-Methylnaphthalene	340 U	340	75	1	12/17/19 18:41	12/10/19	
2-Methylphenol	340 U	340	74	1	12/17/19 18:41	12/10/19	
2-Nitroaniline	1800 U	1800	110	1	12/17/19 18:41	12/10/19	
2-Nitrophenol	340 U	340	99	1	12/17/19 18:41	12/10/19	
3,3'-Dichlorobenzidine	340 U	340	72	1	12/17/19 18:41	12/10/19	
3- and 4-Methylphenol Coelution	340 U	340	66	1	12/17/19 18:41	12/10/19	
3-Nitroaniline	1800 U	1800	73	1	12/17/19 18:41	12/10/19	
4,6-Dinitro-2-methylphenol	1800 U	1800	150	1	12/17/19 18:41	12/10/19	
4-Bromophenyl Phenyl Ether	340 U	340	130	1	12/17/19 18:41	12/10/19	
4-Chloro-3-methylphenol	340 U	340	75	1	12/17/19 18:41	12/10/19	
4-Chloroaniline	340 U	340	81	1	12/17/19 18:41	12/10/19	
4-Chlorophenyl Phenyl Ether	340 U	340	82	1	12/17/19 18:41	12/10/19	
4-Nitroaniline	1800 U	1800	73	1	12/17/19 18:41	12/10/19	
4-Nitrophenol	1800 U	1800	120	1	12/17/19 18:41	12/10/19	
Acenaphthene	340 U	340	77	1	12/17/19 18:41	12/10/19	
Acenaphthylene	340 U	340	90	1	12/17/19 18:41	12/10/19	
Acetophenone	340 U	340	78	1	12/17/19 18:41	12/10/19	
Anthracene	340 U	340	96	1	12/17/19 18:41	12/10/19	
Atrazine	340 U	340	140	1	12/17/19 18:41	12/10/19	
Benz(a)anthracene	340 U	340	110	1	12/17/19 18:41	12/10/19	
Benzaldehyde	1800 U	1800	68	1	12/17/19 18:41	12/10/19	
Benzo(a)pyrene	340 U	340	130	1	12/17/19 18:41	12/10/19	
Benzo(b)fluoranthene	340 U	340	120	1	12/17/19 18:41	12/10/19	
Benzo(g,h,i)perylene	340 U	340	90	1	12/17/19 18:41	12/10/19	
Benzo(k)fluoranthene	340 U	340	130	1	12/17/19 18:41	12/10/19	
Biphenyl	340 U	340	84	1	12/17/19 18:41	12/10/19	
2,2'-Oxybis(1-chloropropane)	340 U	340	140	1	12/17/19 18:41	12/10/19	
Bis(2-chloroethoxy)methane	340 U	340	91	1	12/17/19 18:41	12/10/19	
Bis(2-chloroethyl) Ether	340 U	340	89	1	12/17/19 18:41	12/10/19	
Bis(2-ethylhexyl) Phthalate	520 U	520	91	1	12/17/19 18:41	12/10/19	
Butyl Benzyl Phthalate	340 U	340	85	1	12/17/19 18:41	12/10/19	
Caprolactam	340 U	340	89	1	12/17/19 18:41	12/10/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914346-05	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	340 U	340	99	1	12/17/19 18:41	12/10/19	
Chrysene	340 U	340	130	1	12/17/19 18:41	12/10/19	
Di-n-butyl Phthalate	340 U	340	110	1	12/17/19 18:41	12/10/19	
Di-n-octyl Phthalate	340 U	340	110	1	12/17/19 18:41	12/10/19	
Dibenz(a,h)anthracene	340 U	340	110	1	12/17/19 18:41	12/10/19	
Dibenzofuran	340 U	340	68	1	12/17/19 18:41	12/10/19	
Diethyl Phthalate	340 U	340	73	1	12/17/19 18:41	12/10/19	
Dimethyl Phthalate	340 U	340	77	1	12/17/19 18:41	12/10/19	
Fluoranthene	340 U	340	130	1	12/17/19 18:41	12/10/19	
Fluorene	340 U	340	79	1	12/17/19 18:41	12/10/19	
Hexachlorobenzene	340 U	340	110	1	12/17/19 18:41	12/10/19	
Hexachlorobutadiene	340 U	340	83	1	12/17/19 18:41	12/10/19	
Hexachlorocyclopentadiene	340 U	340	75	1	12/17/19 18:41	12/10/19	
Hexachloroethane	340 U	340	88	1	12/17/19 18:41	12/10/19	
Indeno(1,2,3-cd)pyrene	340 U	340	120	1	12/17/19 18:41	12/10/19	
Isophorone	340 U	340	93	1	12/17/19 18:41	12/10/19	
N-Nitrosodi-n-propylamine	340 U	340	91	1	12/17/19 18:41	12/10/19	
N-Nitrosodiphenylamine	340 U	340	230	1	12/17/19 18:41	12/10/19	
Naphthalene	340 U	340	88	1	12/17/19 18:41	12/10/19	
Nitrobenzene	340 U	340	88	1	12/17/19 18:41	12/10/19	
Pentachlorophenol (PCP)	1800 U	1800	120	1	12/17/19 18:41	12/10/19	
Phenanthrene	340 U	340	100	1	12/17/19 18:41	12/10/19	
Phenol	340 U	340	81	1	12/17/19 18:41	12/10/19	
Pyrene	340 U	340	140	1	12/17/19 18:41	12/10/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	50	10 - 109	12/17/19 18:41	
2-Fluorobiphenyl	48	10 - 102	12/17/19 18:41	
2-Fluorophenol	46	10 - 88	12/17/19 18:41	
Nitrobenzene-d5	51	10 - 95	12/17/19 18:41	
Phenol-d6	48	10 - 145	12/17/19 18:41	
Terphenyl-d14	69	10 - 106	12/17/19 18:41	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
000763-93-9	3-Hexen-2-one	2.81	840	JN
	unknown	3.27	50000	J
	unknown	5.36	770	J

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QA/QC Report

Client: Leader Professional Services, Inc. **Service Request:** R1911945
Project: Tonawanda Bisonite Paint **Date Analyzed:** 12/17/19
Sample Matrix: Soil

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/Kg
Basis: Dry

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ1914346-06			RQ1914346-07					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,2,4,5-Tetrachlorobenzene	8270D	930	1660	56	1030	1690	61	10-115	9	30
2,3,4,6-Tetrachlorophenol	8270D	1180	1660	71	1200	1690	71	29-100	<1	30
2,4,5-Trichlorophenol	8270D	1120	1660	67	1140	1690	68	29-97	1	30
2,4,6-Trichlorophenol	8270D	1070	1660	65	1140	1690	67	26-97	3	30
2,4-Dichlorophenol	8270D	990	1660	60	1040	1690	62	25-90	3	30
2,4-Dimethylphenol	8270D	929	1660	56	1010	1690	60	26-89	7	30
2,4-Dinitrophenol	8270D	942 J	1660	57	840 J	1690	50	10-128	13	30
2,4-Dinitrotoluene	8270D	1260	1660	76	1350	1690	80	30-111	5	30
2,6-Dinitrotoluene	8270D	1210	1660	73	1310	1690	78	28-105	7	30
2-Chloronaphthalene	8270D	971	1660	59	1060	1690	63	21-88	7	30
2-Chlorophenol	8270D	889	1660	54	975	1690	58	18-87	7	30
2-Methylnaphthalene	8270D	920	1660	56	992	1690	59	21-83	5	30
2-Methylphenol	8270D	951	1660	57	1040	1690	61	22-86	7	30
2-Nitroaniline	8270D	1360 J	1660	82	1470 J	1690	87	27-105	6	30
2-Nitrophenol	8270D	966	1660	58	1060	1690	63	20-88	8	30
3- and 4-Methylphenol Coelution	8270D	872	1660	53	941	1690	56	27-92	6	30
3-Nitroaniline	8270D	1030 J	1660	62	1040 J	1690	62	27-98	<1	30
4,6-Dinitro-2-methylphenol	8270D	1070 J	1660	65	1100 J	1690	65	11-96	<1	30
4-Bromophenyl Phenyl Ether	8270D	1020	1660	61	1070	1690	64	25-96	5	30
4-Chloro-3-methylphenol	8270D	1080	1660	65	1140	1690	68	29-92	5	30
4-Chloroaniline	8270D	730	1660	44	713	1690	42	21-72	5	30
4-Chlorophenyl Phenyl Ether	8270D	911	1660	55	970	1690	57	25-92	4	30
4-Nitroaniline	8270D	1180 J	1660	71	1300 J	1690	77	27-102	8	30
4-Nitrophenol	8270D	1220 J	1660	73	1280 J	1690	76	10-130	4	30
Acenaphthene	8270D	1040	1660	63	1120	1690	67	25-92	6	30
Acenaphthylene	8270D	1130	1660	68	1220	1690	72	27-93	6	30
Acetophenone	8270D	1720	3310	52	1880	3370	56	23-87	7	30
Anthracene	8270D	1140	1660	69	1180	1690	70	32-106	1	30
Benz(a)anthracene	8270D	1080	1660	66	1120	1690	67	33-109	2	30
Benzo(a)pyrene	8270D	1290	1660	78	1310	1690	78	34-115	<1	30
Benzo(b)fluoranthene	8270D	1140	1660	69	1200	1690	71	31-107	3	30
Benzo(g,h,i)perylene	8270D	1320	1660	80	1340	1690	80	30-127	<1	30
Benzo(k)fluoranthene	8270D	1280	1660	78	1280	1690	76	34-111	3	30

Client: Leader Professional Services, Inc. **Service Request:** R1911945
Project: Tonawanda Bisonite Paint **Date Analyzed:** 12/17/19
Sample Matrix: Soil

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/Kg
Basis: Dry

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ1914346-06			RQ1914346-07					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Biphenyl	8270D	966	1660	58	1040	1690	61	26-88	5	30
2,2'-Oxybis(1-chloropropane)	8270D	723	1660	44	802	1690	48	10-82	9	30
Bis(2-chloroethoxy)methane	8270D	860	1660	52	933	1690	55	17-85	6	30
Bis(2-chloroethyl) Ether	8270D	762	1660	46	832	1690	49	10-79	6	30
Bis(2-ethylhexyl) Phthalate	8270D	1200	1660	72	1250	1690	74	31-115	3	30
Butyl Benzyl Phthalate	8270D	1180	1660	71	1230	1690	73	31-115	3	30
Caprolactam	8270D	1050	1660	63	1110	1690	66	28-99	5	30
Carbazole	8270D	1250	1660	76	1280	1690	76	23-129	<1	30
Chrysene	8270D	1170	1660	71	1210	1690	72	34-108	1	30
Di-n-butyl Phthalate	8270D	1260	1660	76	1290	1690	77	33-114	1	30
Di-n-octyl Phthalate	8270D	1270	1660	77	1300	1690	77	32-116	<1	30
Dibenz(a,h)anthracene	8270D	746	1660	45	722	1690	43	23-122	5	30
Dibenzofuran	8270D	1070	1660	65	1150	1690	68	27-94	5	30
Diethyl Phthalate	8270D	1100	1660	66	1140	1690	68	26-101	3	30
Dimethyl Phthalate	8270D	1070	1660	65	1130	1690	67	27-98	3	30
Fluoranthene	8270D	1190	1660	72	1220	1690	72	34-111	<1	30
Fluorene	8270D	1030	1660	62	1100	1690	65	27-95	5	30
Hexachlorobenzene	8270D	1130	1660	68	1170	1690	70	30-104	3	30
Hexachlorobutadiene	8270D	901	1660	54	985	1690	58	10-142	7	30
Hexachlorocyclopentadiene	8270D	928	1660	56	1040	1690	61	10-133	9	30
Hexachloroethane	8270D	751	1660	45	844	1690	50	10-129	11	30
Indeno(1,2,3-cd)pyrene	8270D	1250	1660	75	1260	1690	75	33-121	<1	30
Isophorone	8270D	802	1660	48	853	1690	51	21-79	6	30
N-Nitrosodi-n-propylamine	8270D	928	1660	56	999	1690	59	15-78	5	30
N-Nitrosodiphenylamine	8270D	1270	1660	77	1320	1690	78	29-108	1	30
Naphthalene	8270D	900	1660	54	975	1690	58	18-81	7	30
Nitrobenzene	8270D	897	1660	54	996	1690	59	14-80	9	30
Pentachlorophenol (PCP)	8270D	1200 J	1660	73	1180 J	1690	70	13-117	4	30
Phenanthrene	8270D	1150	1660	70	1180	1690	70	33-103	<1	30
Phenol	8270D	948	1660	57	1020	1690	60	10-144	5	30
Pyrene	8270D	1210	1660	73	1250	1690	74	33-111	1	30

Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Leader Professional Services, Inc. **Service Request:** R1911945
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY
Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Extraction Method: EPA 3541

Sample Name	Lab Code	Decachlorobiphenyl 10-145	Tetrachloro-m-xylene 10-123
SB2 1-2	R1911945-001	116	82
SB2 4-6	R1911945-002	80	57
SB2 15-17	R1911945-003	88	69
SB3 1-2	R1911945-004	113	71
SB3 4-6	R1911945-005	109	86
SB3 10-12	R1911945-006	81	77
SB4 1-2	R1911945-009	19	16
SB4 1-2 Dup	R1911945-010	70	40
SB4 16-18	R1911945-011	80	43
SB5 3-5	R1911945-012	82	60
SB5 7-8	R1911945-013	82	72
SB5 12-14	R1911945-014	84	62
Method Blank	RQ1914442-01	60	56
Method Blank	RQ1914659-01	85	75
Lab Control Sample	RQ1914442-02	90	84
Duplicate Lab Control Sample	RQ1914442-03	85	71
Lab Control Sample	RQ1914659-02	84	62
Duplicate Lab Control Sample	RQ1914659-03	90	76
SB4 1-2 Dup MS	RQ1914442-10	85	79
SB4 1-2 Dup DMS	RQ1914442-11	82	81
SB4 1-2 MS	RQ1914659-06	17	13
SB4 1-2 DMS	RQ1914659-07	21	16

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QA/QC Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19
Sample Matrix:	Soil	**Date Received:**	12/05/19
		Date Analyzed:	12/28/19
		Date Extracted:	12/11/19

Duplicate Matrix Spike Summary
Organochlorine Pesticides by Gas Chromatography

Sample Name:	SB4 1-2 Dup	**Units:**	ug/Kg
Lab Code:	R1911945-010	**Basis:**	Dry
Analysis Method:	8081B		
Prep Method:	EPA 3541		

		Matrix Spike RQ1914442-10			Duplicate Matrix Spike RQ1914442-11					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
4,4'-DDD	9.7 U	8.32 J	7.58	110	7.98 J	7.45	107	10-165	4	30
4,4'-DDE	9.7 U	7.42 J	7.58	98	6.77 J	7.45	91	10-200	9	30
4,4'-DDT	9.7 U	4.90 J	7.58	65	4.72 J	7.45	63	10-200	4	30
Aldrin	9.7 U	6.03 J	7.58	80	5.97 J	7.45	80	10-171	1	30
Dieldrin	9.7 U	6.37 J	7.58	84	6.16 J	7.45	83	10-200	3	30
Endosulfan I	9.7 U	6.40 J	7.58	84	6.05 J	7.45	81	10-174	6	30
Endosulfan II	9.7 U	6.42 J	7.58	85	6.20 J	7.45	83	10-185	3	30
Endosulfan Sulfate	9.7 U	6.20 J	7.58	82	6.06 J	7.45	81	10-155	2	30
Endrin	9.7 U	7.25 J	7.58	96	7.07 J	7.45	95	10-200	3	30
Endrin Aldehyde	9.7 U	9.7 U	7.58	0 *	9.5 U	7.45	0 *	10-148	NC	30
Endrin Ketone	9.7 U	5.60 J	7.58	74	5.47 J	7.45	73	10-197	2	30
Heptachlor	9.7 U	6.52 J	7.58	86	6.47 J	7.45	87	12-160	<1	30
Heptachlor Epoxide	9.7 U	7.34 J	7.58	97	6.95 J	7.45	93	10-180	6	30
Methoxychlor	9.7 U	6.96 J	7.58	92	6.54 J	7.45	88	10-200	6	30
alpha-BHC	9.7 U	6.05 J	7.58	80	6.11 J	7.45	82	10-149	1	30
alpha-Chlordane	9.7 U	6.51 J	7.58	86	6.17 J	7.45	83	10-175	5	30
beta-BHC	9.7 U	7.32 J	7.58	97	6.89 J	7.45	92	10-162	6	30
delta-BHC	9.7 U	6.62 J	7.58	87	6.39 J	7.45	86	10-157	4	30
gamma-BHC (Lindane)	9.7 U	6.76 J	7.58	89	6.43 J	7.45	86	10-170	5	30
gamma-Chlordane	9.7 U	6.77 J	7.58	89	6.38 J	7.45	86	10-176	6	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
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QA/QC Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19
Sample Matrix:	Soil	**Date Received:**	12/05/19
		Date Analyzed:	01/2/20
		Date Extracted:	12/17/19

Duplicate Matrix Spike Summary
Organochlorine Pesticides by Gas Chromatography

Sample Name:	SB4 1-2	**Units:**	ug/Kg
Lab Code:	R1911945-009	**Basis:**	Dry
Analysis Method:	8081B		
Prep Method:	EPA 3541		

		Matrix Spike RQ1914659-06			Duplicate Matrix Spike RQ1914659-07					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
4,4'-DDD	2.0 U	1.53 J	7.94	19	2.53	7.93	32	10-165	49*	30
4,4'-DDE	2.0 U	47.4	7.94	597 *	38.6	7.93	487 *	10-200	20	30
4,4'-DDT	2.0 U	2.0 U	7.94	0 *	2.0 U	7.93	0 *	10-200	NC	30
Aldrin	2.0 U	2.0 U	7.94	0 *	2.0 U	7.93	0 *	10-171	NC	30
Dieldrin	2.0 U	8.76	7.94	110	7.05	7.93	89	10-200	22	30
Endosulfan I	2.0 U	6.20	7.94	78	5.28	7.93	67	10-174	16	30
Endosulfan II	2.0 U	2.0 U	7.94	0 *	2.0 U	7.93	0 *	10-185	NC	30
Endosulfan Sulfate	2.0 U	2.0 U	7.94	0 *	2.0 U	7.93	0 *	10-155	NC	30
Endrin	2.0 U	4.43	7.94	56	4.17	7.93	53	10-200	6	30
Endrin Aldehyde	2.0 U	2.0 U	7.94	0 *	2.0 U	7.93	0 *	10-148	NC	30
Endrin Ketone	2.0 U	4.76	7.94	60	4.87	7.93	61	10-197	2	30
Heptachlor	2.0 U	14.2	7.94	179 *	12.6	7.93	159	12-160	12	30
Heptachlor Epoxide	2.0 U	2.0 U	7.94	0 *	2.0 U	7.93	0 *	10-180	NC	30
Methoxychlor	2.0 U	10.6	7.94	133	8.93	7.93	113	10-200	17	30
alpha-BHC	2.0 U	2.0 U	7.94	0 *	1.22 J	7.93	15	10-149	NC	30
alpha-Chlordane	2.0 U	6.65	7.94	84	5.51	7.93	70	10-175	19	30
beta-BHC	2.0 U	4.27	7.94	54	17.1	7.93	216 *	10-162	120*	30
delta-BHC	2.0 U	1.15 J	7.94	15	1.07 J	7.93	14	10-157	7	30
gamma-BHC (Lindane)	2.0 U	10.0	7.94	126	9.17	7.93	116	10-170	9	30
gamma-Chlordane	2.0 U	2.0 U	7.94	0 *	2.0 U	7.93	0 *	10-176	NC	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914442-01	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	1.7 U	1.7	0.86	1	12/27/19 23:11	12/11/19	
4,4'-DDE	1.7 U	1.7	0.86	1	12/27/19 23:11	12/11/19	
4,4'-DDT	1.7 U	1.7	0.86	1	12/27/19 23:11	12/11/19	
Aldrin	1.7 U	1.7	0.86	1	12/27/19 23:11	12/11/19	
Dieldrin	1.7 U	1.7	0.86	1	12/27/19 23:11	12/11/19	
Endosulfan I	1.7 U	1.7	0.86	1	12/27/19 23:11	12/11/19	
Endosulfan II	1.7 U	1.7	0.86	1	12/27/19 23:11	12/11/19	
Endosulfan Sulfate	1.7 U	1.7	0.86	1	12/27/19 23:11	12/11/19	
Endrin	1.7 U	1.7	0.86	1	12/27/19 23:11	12/11/19	
Endrin Aldehyde	1.7 U	1.7	0.86	1	12/27/19 23:11	12/11/19	
Endrin Ketone	1.7 U	1.7	0.86	1	12/27/19 23:11	12/11/19	
Heptachlor	1.7 U	1.7	0.86	1	12/27/19 23:11	12/11/19	
Heptachlor Epoxide	1.7 U	1.7	0.86	1	12/27/19 23:11	12/11/19	
Methoxychlor	1.7 U	1.7	0.86	1	12/27/19 23:11	12/11/19	
Toxaphene	34 U	34	20	1	12/27/19 23:11	12/11/19	
alpha-BHC	1.7 U	1.7	0.86	1	12/27/19 23:11	12/11/19	
alpha-Chlordane	1.7 U	1.7	0.86	1	12/27/19 23:11	12/11/19	
beta-BHC	1.7 U	1.7	0.86	1	12/27/19 23:11	12/11/19	
delta-BHC	1.7 U	1.7	0.86	1	12/27/19 23:11	12/11/19	
gamma-BHC (Lindane)	1.7 U	1.7	0.86	1	12/27/19 23:11	12/11/19	
gamma-Chlordane	1.7 U	1.7	0.86	1	12/27/19 23:11	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	60	10 - 145	12/27/19 23:11	
Tetrachloro-m-xylene	56	10 - 123	12/27/19 23:11	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914659-01	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	1.7 U	1.7	0.85	1	12/31/19 17:24	12/17/19	
4,4'-DDE	1.7 U	1.7	0.85	1	12/31/19 17:24	12/17/19	
4,4'-DDT	1.7 U	1.7	0.85	1	12/31/19 17:24	12/17/19	
Aldrin	1.7 U	1.7	0.85	1	12/31/19 17:24	12/17/19	
Dieldrin	1.7 U	1.7	0.85	1	12/31/19 17:24	12/17/19	
Endosulfan I	1.7 U	1.7	0.85	1	12/31/19 17:24	12/17/19	
Endosulfan II	1.7 U	1.7	0.85	1	12/31/19 17:24	12/17/19	
Endosulfan Sulfate	1.7 U	1.7	0.85	1	12/31/19 17:24	12/17/19	
Endrin	1.7 U	1.7	0.85	1	12/31/19 17:24	12/17/19	
Endrin Aldehyde	1.7 U	1.7	0.85	1	12/31/19 17:24	12/17/19	
Endrin Ketone	1.7 U	1.7	0.85	1	12/31/19 17:24	12/17/19	
Heptachlor	1.7 U	1.7	0.85	1	12/31/19 17:24	12/17/19	
Heptachlor Epoxide	1.7 U	1.7	0.85	1	12/31/19 17:24	12/17/19	
Methoxychlor	1.7 U	1.7	0.85	1	12/31/19 17:24	12/17/19	
Toxaphene	33 U	33	20	1	12/31/19 17:24	12/17/19	
alpha-BHC	1.7 U	1.7	0.85	1	12/31/19 17:24	12/17/19	
alpha-Chlordane	1.7 U	1.7	0.85	1	12/31/19 17:24	12/17/19	
beta-BHC	1.7 U	1.7	0.85	1	12/31/19 17:24	12/17/19	
delta-BHC	1.7 U	1.7	0.85	1	12/31/19 17:24	12/17/19	
gamma-BHC (Lindane)	1.7 U	1.7	0.85	1	12/31/19 17:24	12/17/19	
gamma-Chlordane	1.7 U	1.7	0.85	1	12/31/19 17:24	12/17/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	85	10 - 145	12/31/19 17:24	
Tetrachloro-m-xylene	75	10 - 123	12/31/19 17:24	

Client: Leader Professional Services, Inc. **Service Request:** R1911945
Project: Tonawanda Bisonite Paint **Date Analyzed:** 12/27/19
Sample Matrix: Soil

Duplicate Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography

Units:ug/Kg
Basis: Dry

			Lab Control Sample			Duplicate Lab Control Sample				
			RQ1914442-02			RQ1914442-03				
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
4,4'-DDD	8081B	7.72	6.64	116	7.37	6.81	108	33-149	5	30
4,4'-DDE	8081B	6.28	6.64	95	5.91	6.81	87	38-147	6	30
4,4'-DDT	8081B	4.58	6.64	69	4.53	6.81	67	37-146	1	30
Aldrin	8081B	5.81	6.64	87	5.09	6.81	75	25-146	13	30
Dieldrin	8081B	6.09	6.64	92	5.73	6.81	84	40-140	6	30
Endosulfan I	8081B	5.76	6.64	87	5.39	6.81	79	35-116	7	30
Endosulfan II	8081B	6.12	6.64	92	5.88	6.81	86	39-122	4	30
Endosulfan Sulfate	8081B	5.89	6.64	89	5.63	6.81	83	31-132	4	30
Endrin	8081B	6.82	6.64	103	6.45	6.81	95	40-144	6	30
Endrin Aldehyde	8081B	1.73	6.64	26	1.74	6.81	25	10-109	<1	30
Endrin Ketone	8081B	5.54	6.64	83	5.37	6.81	79	38-122	3	30
Heptachlor	8081B	5.92	6.64	89	5.32	6.81	78	34-142	11	30
Heptachlor Epoxide	8081B	6.01	6.64	90	5.56	6.81	82	37-113	8	30
Methoxychlor	8081B	5.37	6.64	81	5.50	6.81	81	41-152	2	30
alpha-BHC	8081B	6.12	6.64	92	5.48	6.81	80	28-145	11	30
alpha-Chlordane	8081B	6.11	6.64	92	5.73	6.81	84	37-114	6	30
beta-BHC	8081B	6.08	6.64	92	5.64	6.81	83	38-144	8	30
delta-BHC	8081B	6.46	6.64	97	6.04	6.81	89	30-153	7	30
gamma-BHC (Lindane)	8081B	6.10	6.64	92	5.53	6.81	81	32-145	10	30
gamma-Chlordane	8081B	6.10	6.64	92	5.80	6.81	85	34-123	5	30

Client: Leader Professional Services, Inc. **Service Request:** R1911945
Project: Tonawanda Bisonite Paint **Date Analyzed:** 12/31/19
Sample Matrix: Soil

Duplicate Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography

Units:ug/Kg
Basis: Dry

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ1914659-02			RQ1914659-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
4,4'-DDD	8081B	7.18	6.70	107	8.68	6.95	125	33-149	19	30
4,4'-DDE	8081B	6.47	6.70	97	6.58	6.95	95	38-147	2	30
4,4'-DDT	8081B	4.04	6.70	60	2.96	6.95	43	37-146	31*	30
Aldrin	8081B	5.25	6.70	78	5.99	6.95	86	25-146	13	30
Dieldrin	8081B	5.97	6.70	89	6.21	6.95	89	40-140	4	30
Endosulfan I	8081B	5.33	6.70	79	5.94	6.95	85	35-116	11	30
Endosulfan II	8081B	5.43	6.70	81	6.19	6.95	89	39-122	13	30
Endosulfan Sulfate	8081B	5.30	6.70	79	5.77	6.95	83	31-132	8	30
Endrin	8081B	6.03	6.70	90	6.65	6.95	96	40-144	10	30
Endrin Aldehyde	8081B	5.80	6.70	86	1.30 J	6.95	19	10-109	127*	30
Endrin Ketone	8081B	4.88	6.70	73	5.09	6.95	73	38-122	4	30
Heptachlor	8081B	5.19	6.70	77	5.68	6.95	82	34-142	9	30
Heptachlor Epoxide	8081B	5.39	6.70	80	6.02	6.95	87	37-113	11	30
Methoxychlor	8081B	4.69	6.70	70	3.48	6.95	50	41-152	30	30
alpha-BHC	8081B	5.17	6.70	77	6.07	6.95	87	28-145	16	30
alpha-Chlordane	8081B	5.43	6.70	81	6.07	6.95	87	37-114	11	30
beta-BHC	8081B	5.43	6.70	81	6.05	6.95	87	38-144	11	30
delta-BHC	8081B	5.75	6.70	86	6.46	6.95	93	30-153	12	30
gamma-BHC (Lindane)	8081B	5.35	6.70	80	6.13	6.95	88	32-145	14	30
gamma-Chlordane	8081B	5.94	6.70	89	6.15	6.95	88	34-123	3	30

Client: Leader Professional Services, Inc. **Service Request:** R1911945
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY
Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Extraction Method: EPA 3541

Sample Name	Lab Code	Decachlorobiphenyl 22-128	Tetrachloro-m-xylene 14-119
SB2 1-2	R1911945-001	0*	0*
SB2 4-6	R1911945-002	0*	0*
SB2 15-17	R1911945-003	94	80
SB3 1-2	R1911945-004	0*	0*
SB3 4-6	R1911945-005	0*	0*
SB3 10-12	R1911945-006	85	83
SB4 1-2	R1911945-009	99	76
SB4 1-2 Dup	R1911945-010	66	43
SB4 16-18	R1911945-011	77	46
SB5 3-5	R1911945-012	74	57
SB5 7-8	R1911945-013	94	77
SB5 12-14	R1911945-014	87	68
Method Blank	RQ1914442-01	60	65
Method Blank	RQ1914659-01	78	82
Lab Control Sample	RQ1914442-04	82	68
Duplicate Lab Control Sample	RQ1914442-05	66	36
Lab Control Sample	RQ1914659-04	72	75
Duplicate Lab Control Sample	RQ1914659-05	78	83
SB4 1-2 Dup MS	RQ1914442-12	76	84
SB4 1-2 Dup DMS	RQ1914442-13	76	87
SB4 1-2 MS	RQ1914659-08	18*	14
SB4 1-2 DMS	RQ1914659-09	20*	16

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QA/QC Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19
Sample Matrix:	Soil	**Date Received:**	12/05/19
		Date Analyzed:	12/17/19
		Date Extracted:	12/11/19

Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs) by GC

Sample Name:	SB4 1-2 Dup	**Units:**	ug/Kg
Lab Code:	R1911945-010	**Basis:**	Dry
Analysis Method:	8082A		
Prep Method:	EPA 3541		

		Matrix Spike RQ1914442-12			Duplicate Matrix Spike RQ1914442-13					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	38 U	159	192	83	175	185	94	26-137	10	30
Aroclor 1260	38 U	144	192	75	147	185	80	30-156	2	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19
Sample Matrix:	Soil	**Date Received:**	12/05/19
		Date Analyzed:	12/28/19
		Date Extracted:	12/17/19

Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs) by GC

Sample Name:	SB4 1-2	**Units:**	ug/Kg
Lab Code:	R1911945-009	**Basis:**	Dry
Analysis Method:	8082A		
Prep Method:	EPA 3541		

		Matrix Spike RQ1914659-08			Duplicate Matrix Spike RQ1914659-09					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	38 U	95.5	194	49	504 E	196	257 *	26-137	136*	30
Aroclor 1260	38 U	55.3	194	29 *	107	196	55	30-156	64*	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914442-01	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	34 U	34	18	1	12/16/19 18:54	12/11/19	
Aroclor 1221	68 U	68	34	1	12/16/19 18:54	12/11/19	
Aroclor 1232	34 U	34	20	1	12/16/19 18:54	12/11/19	
Aroclor 1242	34 U	34	18	1	12/16/19 18:54	12/11/19	
Aroclor 1248	34 U	34	27	1	12/16/19 18:54	12/11/19	
Aroclor 1254	34 U	34	19	1	12/16/19 18:54	12/11/19	
Aroclor 1260	34 U	34	18	1	12/16/19 18:54	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	60	22 - 128	12/16/19 18:54	
Tetrachloro-m-xylene	65	14 - 119	12/16/19 18:54	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914659-01	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	33 U	33	18	1	12/19/19 00:08	12/17/19	
Aroclor 1221	67 U	67	34	1	12/19/19 00:08	12/17/19	
Aroclor 1232	33 U	33	20	1	12/19/19 00:08	12/17/19	
Aroclor 1242	33 U	33	18	1	12/19/19 00:08	12/17/19	
Aroclor 1248	33 U	33	26	1	12/19/19 00:08	12/17/19	
Aroclor 1254	33 U	33	19	1	12/19/19 00:08	12/17/19	
Aroclor 1260	33 U	33	18	1	12/19/19 00:08	12/17/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	78	22 - 128	12/19/19 00:08	
Tetrachloro-m-xylene	82	14 - 119	12/19/19 00:08	

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

Service Request: R1911945
Date Analyzed: 12/16/19

Duplicate Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs) by GC

Units:ug/Kg
Basis: Dry

			Lab Control Sample			Duplicate Lab Control Sample				
			RQ1914442-04			RQ1914442-05				
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	8082A	128	164	78	89.1	164	54	41-127	36*	30
Aroclor 1260	8082A	132	164	80	113	164	69	49-135	16	30

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QA/QC Report

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

Service Request: R1911945
Date Analyzed: 12/19/19

Duplicate Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs) by GC

Units:ug/Kg
Basis: Dry

			Lab Control Sample RQ1914659-04			Duplicate Lab Control Sample RQ1914659-05				
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	8082A	143	170	84	142	163	87	41-127	<1	30
Aroclor 1260	8082A	136	170	80	136	163	83	49-135	<1	30

Client: Leader Professional Services, Inc. **Service Request:** R1911945
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY
Chlorinated Herbicides by GC

Analysis Method: 8151A
Extraction Method: Method

Sample Name	Lab Code	2,4-Dichlorophenylacetic Acid 10-151
SB2 1-2	R1911945-001	61
SB2 4-6	R1911945-002	56
SB2 15-17	R1911945-003	55
SB3 1-2	R1911945-004	56
SB3 4-6	R1911945-005	54
SB3 10-12	R1911945-006	66
SB4 1-2	R1911945-009	58
SB4 1-2 Dup	R1911945-010	57
SB4 16-18	R1911945-011	55
SB5 3-5	R1911945-012	56
SB5 7-8	R1911945-013	62
SB5 12-14	R1911945-014	52
Method Blank	RQ1914542-03	59
Method Blank	RQ1914622-01	47
Lab Control Sample	RQ1914542-04	66
Duplicate Lab Control Sample	RQ1914542-05	67
Lab Control Sample	RQ1914622-02	60
Duplicate Lab Control Sample	RQ1914622-03	59
SB4 1-2 MS	RQ1914542-01	56
SB4 1-2 DMS	RQ1914542-02	61

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QA/QC Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19
Sample Matrix:	Soil	**Date Received:**	12/05/19
		Date Analyzed:	12/17/19
		Date Extracted:	12/13/19

Duplicate Matrix Spike Summary
Chlorinated Herbicides by GC

Sample Name:	SB4 1-2	**Units:**	ug/Kg
Lab Code:	R1911945-009	**Basis:**	Dry
Analysis Method:	8151A		
Prep Method:	Method		

		Matrix Spike RQ1914542-01			**Duplicate Matrix Spike** RQ1914542-02					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
2,4,5-T	11 U	36.4	56.3	65	38.6	57.7	67	19-127	6	30
2,4,5-TP	11 U	30.6	56.3	54	33.2	57.7	58	11-133	8	30
2,4-D	11 U	36.3	56.3	64	37.1	57.7	64	24-165	2	30
Dicamba	11 U	29.2	56.3	52	32.1	57.7	56	10-136	9	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914542-03	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	10 U	10	3.7	1	12/17/19 19:03	12/13/19	
2,4,5-TP	10 U	10	3.4	1	12/17/19 19:03	12/13/19	
2,4-D	10 U	10	5.7	1	12/17/19 19:03	12/13/19	
Dicamba	10 U	10	3.7	1	12/17/19 19:03	12/13/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	59	10 - 151	12/17/19 19:03	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914622-01	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	10 U	10	3.7	1	12/17/19 22:41	12/16/19	
2,4,5-TP	10 U	10	3.5	1	12/17/19 22:41	12/16/19	
2,4-D	10 U	10	5.7	1	12/17/19 22:41	12/16/19	
Dicamba	10 U	10	3.7	1	12/17/19 22:41	12/16/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	47	10 - 151	12/17/19 22:41	

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QA/QC Report

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

Service Request: R1911945
Date Analyzed: 12/17/19

Duplicate Lab Control Sample Summary
Chlorinated Herbicides by GC

Units:ug/Kg
Basis: Dry

			Lab Control Sample			Duplicate Lab Control Sample				
			RQ1914542-04			RQ1914542-05				
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
2,4,5-T	8151A	37.6	49.9	75	38.2	50.4	76	19-127	2	30
2,4,5-TP	8151A	34.5	49.9	69	35.1	50.4	70	18-122	2	30
2,4-D	8151A	35.4	49.9	71	35.7	50.4	71	24-165	<1	30
Dicamba	8151A	28.4	49.9	57	30.2	50.4	60	26-128	6	30

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

Service Request: R1911945
Date Analyzed: 12/17/19

Duplicate Lab Control Sample Summary
Chlorinated Herbicides by GC

Units:ug/Kg
Basis: Dry

			Lab Control Sample			Duplicate Lab Control Sample				
			RQ1914622-02			RQ1914622-03				
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
2,4,5-T	8151A	34.3	50.0	69	32.3	50.0	65	19-127	6	30
2,4,5-TP	8151A	31.1	50.0	62	28.0	50.0	56	18-122	10	30
2,4-D	8151A	31.2	50.0	62	29.2	50.0	58	24-165	7	30
Dicamba	8151A	26.9	50.0	54	24.2	50.0	48	26-128	10	30

Metals

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METALS

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BLANKS

Contract: R1911945

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: SB2 1-2

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): MG/KG

Analyte	Initial Calib. Blank ug/L	C	Continuing Calibration Blank ug/L 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum	120.00	U	120.00	U	120.00	U	120.00	U	12.000	U	P
Antimony	5.40	U	5.40	U	5.40	U	5.40	U	0.540	U	P
Arsenic	7.00	U	7.00	U	7.00	U	7.00	U	0.700	U	P
Barium	9.70	U	9.70	U	9.70	U	9.70	U	0.970	U	P
Beryllium	0.29	U	0.29	U	0.29	U	0.29	U	0.029	U	P
Cadmium	0.73	U	0.73	U	0.73	U	0.73	U	0.073	U	P
Mercury	0.035	U	0.035	U	0.035	U	0.035	U	0.006	U	CV
Calcium	320.00	U	320.00	U	320.00	U	320.00	U	32.000	U	P
Chromium	3.50	U	3.50	U	3.50	U	3.50	U	0.350	U	P
Cobalt	1.90	U	1.90	U	1.90	U	1.90	U	0.190	U	P
Copper	6.30	U	6.30	U	6.30	U	6.30	U	0.630	U	P
Iron	130.00	U	130.00	U	130.00	U	130.00	U	13.000	U	P
Lead	4.00	U	4.00	U	4.00	U	4.00	U	0.400	U	P
Magnesium	130.00	U	130.00	U	130.00	U	130.00	U	13.000	U	P
Manganese	15.00	U	15.00	U	15.00	U	15.00	U	1.500	U	P
Nickel	6.60	U	6.60	U	6.60	U	6.60	U	0.660	U	P
Potassium	96.00	U	96.00	U	96.00	U	96.00	U	9.600	U	P
Selenium	5.40	U	5.40	U	5.40	U	5.40	U	0.540	U	P
Silver	0.71	U	0.71	U	0.71	U	0.71	U	0.071	U	P
Sodium	520.00	U	520.00	U	520.00	U	520.00	U	52.000	U	P
Thallium	6.50	U	6.50	U	6.50	U	6.50	U	0.650	U	P
Vanadium	7.10	U	7.10	U	7.10	U	7.10	U	0.710	U	P
Zinc	14.00	U	14.00	U	14.00	U	14.00	U	1.400	U	P

Comments:

METALS

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BLANKS

Contract: R1911945

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: SB2 1-2

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	C	Continuing Calibration Blank ug/L 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum			120.00	U	120.00	U	120.00	U			P
Antimony			5.40	U	5.40	U	5.40	U			P
Arsenic			7.00	U	7.00	U	7.00	U			P
Barium			9.70	U	9.70	U	9.70	U			P
Beryllium			0.29	U	0.29	U	0.29	U			P
Cadmium			0.73	U	0.73	U	0.73	U			P
Mercury			0.035	U							CV
Calcium			320.00	U	320.00	U	320.00	U			P
Chromium			3.50	U	3.50	U	3.50	U			P
Cobalt			1.90	U	1.90	U	1.90	U			P
Copper			6.30	U	6.30	U	6.30	U			P
Iron			130.00	U	130.00	U	130.00	U			P
Lead			4.00	U	4.00	U	4.00	U			P
Magnesium			130.00	U	130.00	U	130.00	U			P
Manganese			15.00	U	15.00	U	15.00	U			P
Nickel			6.60	U	6.60	U	6.60	U			P
Potassium			96.00	U	96.00	U	96.00	U			P
Selenium			5.40	U	5.40	U	5.40	U			P
Silver			0.71	U	0.71	U	0.71	U			P
Sodium			520.00	U	520.00	U	520.00	U			P
Thallium			6.50	U	6.50	U	6.50	U			P
Vanadium			7.10	U	7.10	U	7.10	U			P
Zinc			14.00	U	14.00	U	14.00	U			P

Comments:

METALS

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BLANKS

Contract: R1911945

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: SB2 1-2

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	C	Continuing Calibration Blank ug/L 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum			120.00	U	120.00	U					P
Antimony			5.40	U	5.40	U					P
Arsenic			7.00	U	7.00	U					P
Barium			9.70	U	9.70	U					P
Beryllium			0.29	U	0.29	U					P
Cadmium			0.73	U	0.73	U					P
Calcium			320.00	U	320.00	U					P
Chromium			3.50	U	3.50	U					P
Cobalt			1.90	U	1.90	U					P
Copper			6.30	U	6.30	U					P
Iron			130.00	U	130.00	U					P
Lead			4.00	U	4.00	U					P
Magnesium			130.00	U	130.00	U					P
Manganese			15.00	U	15.00	U					P
Nickel			6.60	U	6.60	U					P
Potassium			96.00	U	96.00	U					P
Selenium			5.40	U	5.40	U					P
Silver			0.71	U	0.71	U					P
Sodium			520.00	U	520.00	U					P
Thallium			6.50	U	6.50	U					P
Vanadium			7.10	U	7.10	U					P
Zinc			14.00	U	14.00	U					P

Comments:

METALS

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SPIKE SAMPLE RECOVERY

SAMPLE NO.

SB4 1-2S

Contract: R1911945

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: SB2 1-2

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 87.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum		10600.00		10500.00		229.0	44		P
Antimony	75 - 125	32.90		0.62	U	57.2	58	N	P
Arsenic	75 - 125	7.23		4.00		4.6	70	N	P
Barium	75 - 125	328.00		110.00		229.0	95		P
Beryllium	75 - 125	5.71		0.50		5.7	91		P
Cadmium	75 - 125	5.35		0.35	J	5.7	88		P
Mercury	75 - 125	0.208		0.009	J	0.19	105		CV
Calcium		64200.00		65900.00		229.0	-742		P
Chromium	75 - 125	36.90		16.00		22.9	91		P
Cobalt	75 - 125	61.60		8.65		57.2	93		P
Copper	75 - 125	52.60		23.00		28.6	103		P
Iron		20400.00		21600.00		114.0	-1053		P
Lead	75 - 125	62.80		10.40		57.2	92		P
Magnesium		19400.00		20200.00		229.0	-349		P
Manganese		661.00		608.00		57.2	93		P
Nickel	75 - 125	66.70		15.40		57.2	90		P
Potassium	75 - 125	4610.00		2600.00		2290.0	88		P
Selenium	75 - 125	104.00		0.62	U	116.0	90		P
Silver	75 - 125	5.79		0.08	U	5.7	102		P
Sodium	75 - 125	2520.00		204.00		2290.0	101		P
Thallium	75 - 125	236.00		1.22		229.0	103		P
Vanadium	75 - 125	76.20		23.70		57.2	92		P
Zinc	75 - 125	136.00		82.90		57.2	93		P

Comments: _____

METALS

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SPIKE SAMPLE RECOVERY

SAMPLE NO.: SB4 1-2SD

Contract: R1911945

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: SB2 1-2

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 87.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum		10300.00		10500.00		229.0	-87		P
Antimony	75 - 125	33.40		0.62	U	57.2	58	N	P
Arsenic	75 - 125	8.32		4.00		4.6	94		P
Barium	75 - 125	312.00		110.00		229.0	88		P
Beryllium	75 - 125	5.69		0.50		5.7	91		P
Cadmium	75 - 125	5.35		0.35	J	5.7	88		P
Mercury	75 - 125	0.211		0.009	J	0.19	106		CV
Calcium		63100.00		65900.00		229.0	-1223		P
Chromium	75 - 125	36.50		16.00		22.9	90		P
Cobalt	75 - 125	61.10		8.65		57.2	92		P
Copper	75 - 125	51.40		23.00		28.6	99		P
Iron		20300.00		21600.00		114.0	-1140		P
Lead	75 - 125	62.30		10.40		57.2	91		P
Magnesium		19400.00		20200.00		229.0	-349		P
Manganese		628.00		608.00		57.2	35		P
Nickel	75 - 125	66.20		15.40		57.2	89		P
Potassium	75 - 125	4500.00		2600.00		2290.0	83		P
Selenium	75 - 125	105.00		0.62	U	116.0	91		P
Silver	75 - 125	5.76		0.08	U	5.7	101		P
Sodium	75 - 125	2520.00		204.00		2290.0	101		P
Thallium	75 - 125	236.00		1.22		229.0	103		P
Vanadium	75 - 125	75.30		23.70		57.2	90		P
Zinc	75 - 125	134.00		82.90		57.2	89		P

Comments: _____

METALS
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DUPLICATES

SAMPLE NO.: SB4 1-2SD

Contract: R1911945

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: SB2 1-2

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 87.4 % Solids for Duplicate: 87.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		10600.00		10300.00		3		P
Antimony		32.90		33.40		2		P
Arsenic		7.23		8.32		14		P
Barium		328.00		312.00		5		P
Beryllium		5.71		5.69		0		P
Cadmium		5.35		5.35		0		P
Mercury		0.208		0.211		1		CV
Calcium		64200.00		63100.00		2		P
Chromium		36.90		36.50		1		P
Cobalt		61.60		61.10		1		P
Copper		52.60		51.40		2		P
Iron		20400.00		20300.00		0		P
Lead		62.80		62.30		1		P
Magnesium		19400.00		19400.00		0		P
Manganese		661.00		628.00		5		P
Nickel		66.70		66.20		1		P
Potassium		4610.00		4500.00		2		P
Selenium		104.00		105.00		1		P
Silver		5.79		5.76		1		P
Sodium		2520.00		2520.00		0		P
Thallium		236.00		236.00		0		P
Vanadium		76.20		75.30		1		P
Zinc		136.00		134.00		1		P

Comments: _____

METALS

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LABORATORY CONTROL SAMPLE

Contract: R1911945

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: SB2 1-2

Solid LCS Source: CPI

Aqueous LCS Source:

Analyte	Aqueous (ug/L True	Found	%R	Solid (mg/K True	Found	C	Limits		%R
Aluminum				200	189.78		160	240	95
Antimony				50	45.17		40	60	90
Arsenic				4	3.70		3.2	4.8	92
Barium				200	200.14		160	240	100
Beryllium				5	4.83		4	6	97
Cadmium				5	4.93		4	6	99
Mercury				0.166	0.169		.133	.199	102
Calcium				200	188.71		160	240	94
Chromium				20	19.92		16	24	100
Cobalt				50	50.15		40	60	100
Copper				25	24.23		20	30	97
Iron				100	98.94		80	120	99
Lead				50	48.03		40	60	96
Magnesium				200	185.81		160	240	93
Manganese				50	48.59		40	60	97
Nickel				50	48.51		40	60	97
Potassium				2000	1899.24		1600	2400	95
Selenium				101	94.11		80.8	121	93
Silver				5	4.79		4	6	96
Sodium				2000	1919.81		1600	2400	96
Thallium				200	182.26		160	240	91
Vanadium				50	48.94		40	60	98
Zinc				50	47.03		40	60	94

Comments: _____

General Chemistry

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www.alsglobal.com

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	Dry
Lab Code:	R1911945-MB		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	0.30 U	mg/Kg	0.30	0.05	1	12/13/19 17:23	12/12/19	

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19
Sample Matrix:	Soil	**Date Received:**	12/05/19
		Date Analyzed:	12/13/19
		Date Extracted:	12/12/19

Duplicate Matrix Spike Summary
Cyanide, Total

Sample Name:	SB4 1-2	**Units:**	mg/Kg
Lab Code:	R1911945-009	**Basis:**	Dry
Analysis Method:	9012B		
Prep Method:	Method		

		Matrix Spike			Duplicate Matrix Spike					
		R1911945-009MS			R1911945-009DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Cyanide, Total	0.28 U	2.66	2.78	96	2.45	2.49	99	10-159	8	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911945
Project	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19
Sample Matrix:	Soil	**Date Received:**	12/05/19
		Date Analyzed:	12/11/19

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	SB4 1-2	**Units:**	Percent
Lab Code:	R1911945-009	**Basis:**	As Received

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Sample R1911945-009DUP Result	Average	RPD	RPD Limit
Total Solids	ALS SOP	-	-	87.4	88.7	88.0	1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

Service Request: R1911945
Date Analyzed: 12/13/19

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/Kg
Basis: Dry

Lab Control Sample
R1911945-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Cyanide, Total	9012B	3.08	3.00	103	85-115

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

Service Request: R1911945
Date Analyzed: 12/13/19

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/Kg
Basis: Dry

Lab Control Sample
R1911945-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Cyanide, Total	9012B	18.3	18.0	101	85-115

January 08, 2020 Service Request No:R1911946

Mr. Peter von Schondorf
Leader Professional Services, Inc.
271 Marsh Road
Suite 2
Pittsford, NY 14534

Laboratory Results for: Tonawanda Bisonite Paint

Dear Mr.von Schondorf,

Enclosed are the results of the sample(s) submitted to our laboratory December 05, 2019
For your reference, these analyses have been assigned our service request number **R1911946.**

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Brady Kalkman
For
Janice Jaeger
Project Manager

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
PHONE +1 585 288 5380 | FAX +1 585 288 8475
ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

ALS Environmental—Rochester Laboratory
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ALS Environmental

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

Service Request: R1911946
Date Received: 12/05/2019

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

Eleven soil samples were received for analysis at ALS Environmental on 12/05/2019. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Semivolatiles by GC/MS:

Method 8270D, 12/20/2019: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8270D, 12/20/2019: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8270D, 12/18/2019: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8270D, 12/18/2019: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Semivoa GC:

Method 8081B, 01/05/2020: The upper control limit was exceeded for one or more analytes in the closing Continuing Calibration Verification (CCV). Samples were run multiple times with same results. CCV failure due to sample matrix run before CCV.

Method 8081B, 01/05/2020: The lower control limit was exceeded for one or more analytes in the closing Continuing Calibration Verification (CCV). Samples were run multiple times with same results. CCV failure due to sample matrix run before CCV.

Method 8081B, R1911946-008, -010, -011: The control limits were exceeded for one or more surrogates due to matrix interferences. Due to the presence of non-target background components that prevented adequate resolution of the surrogate, accurate quantitation was not possible. No further corrective action was appropriate.

Endrin Aldehyde has been reported as zero percent recovery in the LCS/LCSD due to a limitation in LIMs. Endrin Aldehyde was detected at 11% and 10% recovery, respectively, within laboratory limits. The LCS/LCSD is acceptable and should not be flagged on the summary form.

Method 8081B, 12/31/2019: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Approved by _____ Date 01/08/2020

Method 8081B, 665422: The confirmation comparison limit of 40% difference was exceeded for the following analytes in one or more samples. Analytes noted on Form 1 with P Flag. The lower of the two values is reported and is flagged.
Method 8081B, 12/31/2019: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

There are hits for DDE and DDT sample were run several times with same result, with DDT occuring in breakdown and DDE going out high

Method 8081B, 12/28/2019: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8081B, 12/28/2019: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8082A, 12/18/2019: The control limit was exceeded for one or more surrogates in the Continuing Calibration Verification (CCV). The surrogates were within acceptance limits for the associated field samples. The data quality was not significantly affected and no further corrective action was taken.
Method 8151A, 12/18/2019: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

No significant anomalies were noted with this analysis.

Volatiles by GC/MS:

Method 8260C, 12/17/2019: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Approved by _____ Date 01/08/2020

Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Leader Professional Services, Inc. **Service Request:**R1911946

Project: Tonawanda Bisonite Paint

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R1911946-001	SB6 3-4	12/4/2019	1509
R1911946-002	SB 6-8	12/4/2019	1509
R1911946-003	SB7 4-5	12/4/2019	1545
R1911946-004	SB7 6-8	12/4/2019	1545
R1911946-005	SB7 10-12	12/4/2019	1545
R1911946-006	SB1 1-2	12/4/2019	0945
R1911946-007	SB1 17-18	12/4/2019	1011
R1911946-008	SS-1	12/4/2019	1306
R1911946-009	SS-2	12/4/2019	1306
R1911946-010	SS-3	12/4/2019	1406
R1911946-011	SS-4	12/4/2019	1417

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

SR# _____

001, 003

T058814

ALS Environmental

1565 Jefferson Road, Bldg 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 / FAX (585) 288-8475
www.alsglobal.com

Project Name: Tonawanda Bisonite Paint	
Project Number:	Report To: Peter von Schondorf
Company / Address: Leader Professional Services, Inc. 271 Marsh Road Suite 2 Pittsford NY, 14534	
Phone # 585-248-2413	FAX #
Sampler Signature	Sampler Printed Name: Rob Murphy

CLIENT SAMPLE ID	SAMPLING Date	Time	Matrix (Circle One)	NUMBER OF CONTAINERS	7D 8081B / Pest OC	8082A / PCB	8151A / HERB	8270D / SVO	8270D SIM / 1,4-Dioxane	PFC/537M / PFAS	14D 8260C / VOC FP	9012B / CN Tot	28D 7470A / Hg T	180D 6010C / TAL Metals	Remarks
SB6 3-4	12/4/19	1509	Soil / Water	7	✓	✓	✓	✓			✓	✓	✓	✓	
SB6 6-8	12/4/19	1509	Soil / Water	7	✓	✓	✓	✓			✓	✓	✓	✓	
SB7 4-5	12/4/19	1545	Soil / Water	7	✓	✓	✓	✓			✓	✓	✓	✓	*High VOC
SB7 6-8	12/4/19	1545	Soil / Water	7	✓	✓	✓	✓			✓	✓	✓	✓	
SB7 10-12	12/4/19	1545	Soil / Water	7	✓	✓	✓	✓			✓	✓	✓	✓	
			Soil / Water								X				
			Soil / Water								X				
			Soil / Water								X				
			Soil / Water												
			Soil / Water												

Special Instructions/Comments:

TAL Metals:
Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, Sb, Se, Tl, V, Zn

Login PFAS / 1,4-Dioxane on Separate SDG

Turnaround Requirements

___ RUSH (SURCHARGES APPLY)

✓ Standard

REQUESTED FAX DATE

Requested Report Date

Report Requirements

___ I. Results Only
___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Cilibration Summaries
X IV. Data Validation Report with Raw Data

EData X Yes ___ No
NYSDEC Equis v.4

Invoice Information

P.O.# 235.198A

Bill To: _____

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: Rob Murphy	Printed Name: Daniel Wade	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Courier	Firm: ALS	Firm	Firm	Firm	Firm
Date/Time: 12/5/19 1705	Date/Time: 12/5/19 1705	Date/Time	Date/Time	Date/Time	Date/Time

R1911946 5
Leader Professional Services, Inc.
Tonawanda Bisonite Paint

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

SR# _____

001, 003

T058814

ALS Environmental

1565 Jefferson Road, Bldg 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 / FAX (585) 288-8475
www.alsglobal.com

Project Name: Tonawanda Bisonite Paint	
Project Number: 235, 198A	Report To: Peter von Schondorf
Company / Address: Leader Professional Services, Inc. 271 Marsh Road Suite 2 Pittsford NY, 14534	
Phone # 585-248-2413	FAX #
Sampler Signature	Sampler Printed Name: Rob Murphy

CLIENT SAMPLE ID	SAMPLING Date	Time	Matrix (Circle One)	NUMBER OF CONTAINERS	7D 8081B / Pest OC	8082A / PCB	8151A / HERB	8270D / SVO +20	8270D SIM / 1,4-Dioxane	PFC/537M / PFAS	14D 8260C / VOC FP+10	9012B / CN Tot	28D 7470A / Hg T	180D 6010C / TAL Metals	Remarks
SB1 1-2	12/4/19	9:45A	Soil / Water	7	✓	✓	✓	✓			✓	✓	✓	✓	
SB1 17-18	12/4/19	10:11	Soil / Water	7	✓	✓	✓	✓			✓	✓	✓	✓	
SS-1	12/4/19	13:06	Soil / Water	3	✓	✓	✓	✓				✓	✓	✓	
SS-2	12/4/19	13:06	Soil / Water	3	✓	✓	✓	✓				✓	✓	✓	
SS-3	12/4/19	14:06	Soil / Water	3	✓	✓	✓	✓				✓	✓	✓	
SS-4	12/4/19	14:17	Soil / Water	3	✓	✓	✓	✓				✓	✓	✓	
PFAS Field Blank	12/5/19	1500	Soil / Water	1	✓	✓	✓	✓				✓	✓	✓	
FBGB Field Blank	12/5/19	1500	Soil / Water	17	✓	✓	✓	✓				✓	✓	✓	
Field Blank S	12/5/19	1550	Soil / Water	17	✓	✓	✓	✓	✓	✓		✓	✓	✓	
			Soil / Water							PVS					

Special Instructions/Comments:

TAL Metals:
Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, Sb, Se, Tl, V, Zn

Login PFAS / 1,4-Dioxane on Separate SDG

Turnaround Requirements

___ RUSH (SURCHARGES APPLY)

✓ Standard

_____ REQUESTED FAX DATE

_____ Requested Report Date

Report Requirements

___ I. Results Only
___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Cilibration Summaries
X IV. Data Validation Report with Raw Data

EData X Yes ___ No
NYSDEC Equis v.4

Invoice Information

P.O.# 235 198 A

Bill To: _____

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name Rob Murphy	Printed Name Daniel Wnuk	Printed Name	Printed Name	Printed Name	Printed Name
Firm Leader	Firm ALS	Firm	Firm	Firm	Firm
Date/Time 12/5/19 1205	Date/Time 12/5/19 1705	Date/Time	Date/Time	Date/Time	Date/Time

R1911946 5
Leader Professional Services, Inc.
Tonawanda Bisonite Paint

Cooler Receipt and Preservation Check Form

R1911946 5
Leader Professional Services, Inc.
Tonawanda Bisonite Paint

Project/Client Leader Folder Number

Cooler received on 12/5/19 by: dlw

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	Y (N)	5a	**Perchlorate** samples have required headspace?	Y N (NA)
2	**Custody papers** properly completed (ink, signed)?	(Y) N	5b	Did (VOA) vials, Alk,or Sulfide have sig* **bubbles**?	(Y) N NA
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N	6	Where did the bottles originate?	ALS/ROC CLIENT
4	Circle: ~~Wet Ice~~ **Dry Ice Gel packs** present?	(Y) N	7	Soil VOA received as:	Bulk Encore 5035set NA

3. Temperature Readings Date: 12/5/19 Time: 1740 ID: IR#7 IR#10 From: Temp Blank ~~Sample Bottle~~

Observed Temp (°C)	3.1°	5.0	19.9	19.1°	4.6°	2.8°	5.8°
Within 0-6°C?	(Y) N	(Y) N	Y (N)	Y (N)	(Y) N	(Y) N	(Y) N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) ~~Same Day Rule~~

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R002 by dlw on 12/5/19 at 1740
5035 samples placed in storage location: _____ by _____ on _____ at _____

Cooler Breakdown/Preservation Check**: Date: 12/9/19 Time: 1610 by: dlw

9. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
10. Did all bottle labels and tags agree with custody papers? (YES) NO
11. Were correct containers used for the tests indicated? (YES) NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? (YES) NO N/A
13. Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized Tedlar® Bags Inflated (N/A)

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2		HNO_3								
≤2		H_2SO_4								
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-						
		HCl	**	**						

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 080519-1SR, 080519-1TW
Explain all Discrepancies/ Other Comments:
** 1 Vial for the trip blank.

HPROD	BULK
HTR	FLDT
(SUB)	HGFB
ALS	LL3541

Labels secondary reviewed by: dlw
PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.

J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).

B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.

E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.

E Organics- Concentration has exceeded the calibration range for that specific analysis.

D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.

* Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.

H Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.

Spike was diluted out.

\+ Correlation coefficient for MSA is <0.995.

N Inorganics- Matrix spike recovery was outside laboratory limits.

N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.

S Concentration has been determined using Method of Standard Additions (MSA).

W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.

P Concentration >40% difference between the two GC columns.

C Confirmed by GC/MS

Q DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).

X See Case Narrative for discussion.

MRL Method Reporting Limit. Also known as:
LOQ Limit of Quantitation (LOQ)
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.

MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).

LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.

ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

[1] Analyses were performed according to our laboratoryôs NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: Leader Professional Services, Inc. **Service Request:** R1911946
Project: Tonawanda Bisonite Paint

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
ALS SOP	Soil	Total Solids

Client: Leader Professional Services, Inc. **Service Request:** R1911946
Project: Tonawanda Bisonite Paint/

Sample Name: SB6 3-4 **Date Collected:** 12/4/19
Lab Code: R1911946-001 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
7471B	AKONZEL	KMCLAEN
8081B	KSERCU	JMISIUREWICZ
8082A	KSERCU	BALLGEIER
8151A	KSERCU	BALLGEIER
8260C		FNAEGLER
8270D	AFELSER	JMISIUREWICZ
9012B	MROGERSON	MROGERSON
ALS SOP		GKNIGHT

Sample Name: SB 6-8 **Date Collected:** 12/4/19
Lab Code: R1911946-002 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
7471B	AKONZEL	KMCLAEN
8081B	KSERCU	BALLGEIER
8082A	KSERCU	BALLGEIER
8151A	KSERCU	BALLGEIER
8260C		FNAEGLER
8270D	AFELSER	JMISIUREWICZ
9012B	MROGERSON	MROGERSON
ALS SOP		GKNIGHT

Sample Name: SB7 4-5 **Date Collected:** 12/4/19
Lab Code: R1911946-003 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
7471B	AKONZEL	KMCLAEN

Client: Leader Professional Services, Inc. **Service Request:** R1911946
Project: Tonawanda Bisonite Paint/

Sample Name: SB7 4-5 **Date Collected:** 12/4/19
Lab Code: R1911946-003 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	BALLGEIER
8082A	KSERCU	BALLGEIER
8151A	KSERCU	BALLGEIER
8260C		FNAEGLER
8270D	AFELSER	JMISIUREWICZ
9012B	MROGERSON	MROGERSON
ALS SOP		GKNIGHT

Sample Name: SB7 6-8 **Date Collected:** 12/4/19
Lab Code: R1911946-004 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
7471B	AKONZEL	KMCLAEN
8081B	KSERCU	BALLGEIER
8082A	KSERCU	BALLGEIER
8151A	KSERCU	BALLGEIER
8260C		FNAEGLER
8270D	AFELSER	JMISIUREWICZ
9012B	MROGERSON	MROGERSON
ALS SOP		GKNIGHT

Sample Name: SB7 6-8 **Date Collected:** 12/4/19
Lab Code: R1911946-004.R01 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Client: Leader Professional Services, Inc. **Service Request:** R1911946
Project: Tonawanda Bisonite Paint/

Sample Name: SB7 10-12 **Date Collected:** 12/4/19
Lab Code: R1911946-005 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
7471B	AKONZEL	KMCLAEN
8081B	BALLGEIER	JMISIUREWICZ
8082A	BALLGEIER	BALLGEIER
8151A	KSERCU	BALLGEIER
8260C		FNAEGLER
8270D	AFELSER	JMISIUREWICZ
9012B	MROGERSON	MROGERSON
ALS SOP		GKNIGHT

Sample Name: SB1 1-2 **Date Collected:** 12/4/19
Lab Code: R1911946-006 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
7471B	AKONZEL	KMCLAEN
8081B	BALLGEIER	JMISIUREWICZ
8082A	BALLGEIER	BALLGEIER
8151A	KSERCU	BALLGEIER
8260C		FNAEGLER
8270D	JMISIUREWICZ	JMISIUREWICZ
9012B	MROGERSON	MROGERSON
ALS SOP		GKNIGHT

Sample Name: SB1 17-18 **Date Collected:** 12/4/19
Lab Code: R1911946-007 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
7471B	AKONZEL	KMCLAEN

Client: Leader Professional Services, Inc. **Service Request:** R1911946
Project: Tonawanda Bisonite Paint/

Sample Name: SB1 17-18 **Date Collected:** 12/4/19
Lab Code: R1911946-007 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8081B	BALLGEIER	JMISIUREWICZ
8082A	BALLGEIER	BALLGEIER
8151A	KSERCU	BALLGEIER
8260C		FNAEGLER
8270D	JMISIUREWICZ	JMISIUREWICZ
9012B	MROGERSON	MROGERSON
ALS SOP		GKNIGHT

Sample Name: SB1 17-18 **Date Collected:** 12/4/19
Lab Code: R1911946-007.R01 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name: SS-1 **Date Collected:** 12/4/19
Lab Code: R1911946-008 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
7471B	AKONZEL	KMCLAEN
8081B	BALLGEIER	JMISIUREWICZ
8082A	BALLGEIER	BALLGEIER
8151A	KSERCU	BALLGEIER
8270D	JMISIUREWICZ	JMISIUREWICZ
9012B	MROGERSON	MROGERSON
ALS SOP		GKNIGHT

Client: Leader Professional Services, Inc. **Service Request:** R1911946
Project: Tonawanda Bisonite Paint/

Sample Name: SS-1 **Date Collected:** 12/4/19
Lab Code: R1911946-008.R01 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	JMISIUREWICZ	JMISIUREWICZ

Sample Name: SS-2 **Date Collected:** 12/4/19
Lab Code: R1911946-009 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
7471B	AKONZEL	KMCLAEN
8081B	BALLGEIER	JMISIUREWICZ
8082A	BALLGEIER	BALLGEIER
8151A	KSERCU	BALLGEIER
8270D	JMISIUREWICZ	JMISIUREWICZ
9012B	MROGERSON	MROGERSON
ALS SOP		GKNIGHT

Sample Name: SS-3 **Date Collected:** 12/4/19
Lab Code: R1911946-010 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
7471B	AKONZEL	KMCLAEN
8081B	BALLGEIER	JMISIUREWICZ
8082A	BALLGEIER	BALLGEIER
8151A	KSERCU	BALLGEIER
8270D	JMISIUREWICZ	JMISIUREWICZ
9012B	MROGERSON	MROGERSON
ALS SOP		GKNIGHT

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint/		

Sample Name:	SS-3	**Date Collected:**	12/4/19
Lab Code:	R1911946-010.R01	**Date Received:**	12/5/19
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	JMISIUREWICZ	JMISIUREWICZ

Sample Name:	SS-4	**Date Collected:**	12/4/19
Lab Code:	R1911946-011	**Date Received:**	12/5/19
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
7471B	AKONZEL	KMCLAEN
8081B	BALLGEIER	JMISIUREWICZ
8082A	BALLGEIER	BALLGEIER
8151A	KSERCU	BALLGEIER
8270D	JMISIUREWICZ	JMISIUREWICZ
9012B	MROGERSON	MROGERSON
ALS SOP		GKNIGHT

Sample Name:	SS-4	**Date Collected:**	12/4/19
Lab Code:	R1911946-011.R01	**Date Received:**	12/5/19
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	JMISIUREWICZ	JMISIUREWICZ

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	

Sample Results

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:09
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB6 3-4	**Units:**	ug/Kg
Lab Code:	R1911946-001	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	4.4 U	4.4	0.18	.73	12/11/19 17:16	
1,1,2,2-Tetrachloroethane	4.4 U	4.4	0.18	.73	12/11/19 17:16	
1,1,2-Trichloroethane	4.4 U	4.4	0.18	.73	12/11/19 17:16	
1,1,2-Trichloro-1,2,2-trifluoroethane	4.4 U	4.4	0.18	.73	12/11/19 17:16	
1,1-Dichloroethane (1,1-DCA)	4.4 U	4.4	0.18	.73	12/11/19 17:16	
1,1-Dichloroethene (1,1-DCE)	4.4 U	4.4	0.26	.73	12/11/19 17:16	
1,2,3-Trichlorobenzene	4.4 U	4.4	0.47	.73	12/11/19 17:16	
1,2,4-Trichlorobenzene	4.4 U	4.4	0.38	.73	12/11/19 17:16	
1,2-Dibromo-3-chloropropane (DBCP)	4.4 U	4.4	0.26	.73	12/11/19 17:16	
1,2-Dibromoethane	4.4 U	4.4	0.18	.73	12/11/19 17:16	
1,2-Dichlorobenzene	4.4 U	4.4	0.18	.73	12/11/19 17:16	
1,2-Dichloroethane	4.4 U	4.4	0.18	.73	12/11/19 17:16	
1,2-Dichloropropane	4.4 U	4.4	0.18	.73	12/11/19 17:16	
1,3-Dichlorobenzene	4.4 U	4.4	0.18	.73	12/11/19 17:16	
1,4-Dichlorobenzene	4.4 U	4.4	0.20	.73	12/11/19 17:16	
1,4-Dioxane	89 U	89	18	.73	12/11/19 17:16	
2-Butanone (MEK)	**3.5 J**	4.4	1.8	.73	12/11/19 17:16	
2-Hexanone	4.4 U	4.4	0.32	.73	12/11/19 17:16	
4-Methyl-2-pentanone	4.4 U	4.4	0.21	.73	12/11/19 17:16	
Acetone	**27**	4.4	4.2	.73	12/11/19 17:16	
Benzene	4.4 U	4.4	0.18	.73	12/11/19 17:16	
Bromochloromethane	4.4 U	4.4	0.18	.73	12/11/19 17:16	
Bromodichloromethane	4.4 U	4.4	0.18	.73	12/11/19 17:16	
Bromoform	4.4 U	4.4	0.45	.73	12/11/19 17:16	
Bromomethane	4.4 U	4.4	1.9	.73	12/11/19 17:16	
Carbon Disulfide	4.4 U	4.4	0.26	.73	12/11/19 17:16	
Carbon Tetrachloride	4.4 U	4.4	0.24	.73	12/11/19 17:16	
Chlorobenzene	4.4 U	4.4	0.18	.73	12/11/19 17:16	
Chloroethane	4.4 U	4.4	0.18	.73	12/11/19 17:16	
Chloroform	4.4 U	4.4	0.18	.73	12/11/19 17:16	
Chloromethane	4.4 U	4.4	1.3	.73	12/11/19 17:16	
Cyclohexane	4.4 U	4.4	0.24	.73	12/11/19 17:16	
Dibromochloromethane	4.4 U	4.4	0.18	.73	12/11/19 17:16	
Dichlorodifluoromethane (CFC 12)	4.4 U	4.4	0.30	.73	12/11/19 17:16	
Dichloromethane	4.4 U	4.4	2.5	.73	12/11/19 17:16	
Ethylbenzene	4.4 U	4.4	0.18	.73	12/11/19 17:16	
Isopropylbenzene (Cumene)	4.4 U	4.4	0.18	.73	12/11/19 17:16	
Methyl Acetate	**1.3 J**	4.4	0.75	.73	12/11/19 17:16	
Methyl tert-Butyl Ether	4.4 U	4.4	0.18	.73	12/11/19 17:16	
Methylcyclohexane	4.4 U	4.4	0.28	.73	12/11/19 17:16	
Styrene	4.4 U	4.4	0.18	.73	12/11/19 17:16	
Tetrachloroethene (PCE)	4.4 U	4.4	0.21	.73	12/11/19 17:16	
Toluene	**0.25 J**	4.4	0.18	.73	12/11/19 17:16	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:09
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB6 3-4	**Units:**	ug/Kg
Lab Code:	R1911946-001	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	4.4 U	4.4	0.20	.73	12/11/19 17:16	
Trichlorofluoromethane (CFC 11)	4.4 U	4.4	0.24	.73	12/11/19 17:16	
Vinyl Chloride	4.4 U	4.4	0.41	.73	12/11/19 17:16	
cis-1,2-Dichloroethene	4.4 U	4.4	0.18	.73	12/11/19 17:16	
cis-1,3-Dichloropropene	4.4 U	4.4	0.18	.73	12/11/19 17:16	
m,p-Xylenes	8.9 U	8.9	0.33	.73	12/11/19 17:16	
o-Xylene	4.4 U	4.4	0.18	.73	12/11/19 17:16	
trans-1,2-Dichloroethene	4.4 U	4.4	0.18	.73	12/11/19 17:16	
trans-1,3-Dichloropropene	4.4 U	4.4	0.18	.73	12/11/19 17:16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	78	31 - 154	12/11/19 17:16	
Dibromofluoromethane	94	63 - 138	12/11/19 17:16	
Toluene-d8	98	66 - 138	12/11/19 17:16	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:09
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB 6-8	**Units:**	ug/Kg
Lab Code:	R1911946-002	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	4.0 U	4.0	0.16	.68	12/11/19 17:39	
1,1,2,2-Tetrachloroethane	4.0 U	4.0	0.16	.68	12/11/19 17:39	
1,1,2-Trichloroethane	4.0 U	4.0	0.16	.68	12/11/19 17:39	
1,1,2-Trichloro-1,2,2-trifluoroethane	4.0 U	4.0	0.16	.68	12/11/19 17:39	
1,1-Dichloroethane (1,1-DCA)	4.0 U	4.0	0.16	.68	12/11/19 17:39	
1,1-Dichloroethene (1,1-DCE)	4.0 U	4.0	0.24	.68	12/11/19 17:39	
1,2,3-Trichlorobenzene	4.0 U	4.0	0.42	.68	12/11/19 17:39	
1,2,4-Trichlorobenzene	4.0 U	4.0	0.34	.68	12/11/19 17:39	
1,2-Dibromo-3-chloropropane (DBCP)	4.0 U	4.0	0.24	.68	12/11/19 17:39	
1,2-Dibromoethane	4.0 U	4.0	0.16	.68	12/11/19 17:39	
1,2-Dichlorobenzene	4.0 U	4.0	0.16	.68	12/11/19 17:39	
1,2-Dichloroethane	4.0 U	4.0	0.16	.68	12/11/19 17:39	
1,2-Dichloropropane	4.0 U	4.0	0.16	.68	12/11/19 17:39	
1,3-Dichlorobenzene	4.0 U	4.0	0.16	.68	12/11/19 17:39	
1,4-Dichlorobenzene	4.0 U	4.0	0.18	.68	12/11/19 17:39	
1,4-Dioxane	80 U	80	16	.68	12/11/19 17:39	
2-Butanone (MEK)	**4.5**	4.0	1.6	.68	12/11/19 17:39	
2-Hexanone	4.0 U	4.0	0.29	.68	12/11/19 17:39	
4-Methyl-2-pentanone	**0.28 J**	4.0	0.19	.68	12/11/19 17:39	
Acetone	**41**	4.0	3.8	.68	12/11/19 17:39	
Benzene	**3.1 J**	4.0	0.16	.68	12/11/19 17:39	
Bromochloromethane	4.0 U	4.0	0.16	.68	12/11/19 17:39	
Bromodichloromethane	4.0 U	4.0	0.16	.68	12/11/19 17:39	
Bromoform	4.0 U	4.0	0.40	.68	12/11/19 17:39	
Bromomethane	4.0 U	4.0	1.7	.68	12/11/19 17:39	
Carbon Disulfide	**0.48 J**	4.0	0.24	.68	12/11/19 17:39	
Carbon Tetrachloride	4.0 U	4.0	0.21	.68	12/11/19 17:39	
Chlorobenzene	4.0 U	4.0	0.16	.68	12/11/19 17:39	
Chloroethane	4.0 U	4.0	0.16	.68	12/11/19 17:39	
Chloroform	4.0 U	4.0	0.16	.68	12/11/19 17:39	
Chloromethane	4.0 U	4.0	1.2	.68	12/11/19 17:39	
Cyclohexane	**1.1 J**	4.0	0.21	.68	12/11/19 17:39	
Dibromochloromethane	4.0 U	4.0	0.16	.68	12/11/19 17:39	
Dichlorodifluoromethane (CFC 12)	4.0 U	4.0	0.27	.68	12/11/19 17:39	
Dichloromethane	4.0 U	4.0	2.3	.68	12/11/19 17:39	
Ethylbenzene	**0.32 J**	4.0	0.16	.68	12/11/19 17:39	
Isopropylbenzene (Cumene)	**3.9 J**	4.0	0.16	.68	12/11/19 17:39	
Methyl Acetate	**1.8 J**	4.0	0.67	.68	12/11/19 17:39	
Methyl tert-Butyl Ether	4.0 U	4.0	0.16	.68	12/11/19 17:39	
Methylcyclohexane	**1.6 J**	4.0	0.25	.68	12/11/19 17:39	
Styrene	4.0 U	4.0	0.16	.68	12/11/19 17:39	
Tetrachloroethene (PCE)	4.0 U	4.0	0.19	.68	12/11/19 17:39	
Toluene	**0.63 J**	4.0	0.16	.68	12/11/19 17:39	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:09
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB 6-8	**Units:**	ug/Kg
Lab Code:	R1911946-002	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	4.0 U	4.0	0.18	.68	12/11/19 17:39	
Trichlorofluoromethane (CFC 11)	4.0 U	4.0	0.21	.68	12/11/19 17:39	
Vinyl Chloride	4.0 U	4.0	0.37	.68	12/11/19 17:39	
cis-1,2-Dichloroethene	4.0 U	4.0	0.16	.68	12/11/19 17:39	
cis-1,3-Dichloropropene	4.0 U	4.0	0.16	.68	12/11/19 17:39	
m,p-Xylenes	**1.6 J**	8.0	0.30	.68	12/11/19 17:39	
o-Xylene	**0.39 J**	4.0	0.16	.68	12/11/19 17:39	
trans-1,2-Dichloroethene	4.0 U	4.0	0.16	.68	12/11/19 17:39	
trans-1,3-Dichloropropene	4.0 U	4.0	0.16	.68	12/11/19 17:39	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	31 - 154	12/11/19 17:39	
Dibromofluoromethane	93	63 - 138	12/11/19 17:39	
Toluene-d8	96	66 - 138	12/11/19 17:39	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
004923-78-8	Cyclohexane, 1-ethyl-2-methyl-, tr	10.19	31	JN
000696-29-7	Cyclohexane, (1-methylethyl)-	10.38	8.4	JN
000933-11-9	1-Methylcyclooctene	10.39	9.0	JN
	unknown	10.49	18	J
	unknown	10.78	7.1	J
	unknown	10.88	22	J
	unknown	11.02	10	J
	unknown	11.06	16	J
	unknown	11.12	9.9	J
	unknown	11.17	8.1	J
	unknown	11.20	7.2	J
	unknown	11.30	14	J
	unknown	11.45	7.7	J
	unknown	11.58	10	J
019744-64-0	1H-Indene, octahydro-5-methyl-	11.85	9.2	JN
000141-93-5	Benzene, 1,3-diethyl-	11.99	12	JN
000493-02-7	Naphthalene, decahydro-, trans-	12.04	30	JN
001074-55-1	Benzene, 1-methyl-4-propyl-	12.21	16	JN
000768-00-3	Benzene, (1-methyl-1-propenyl)-, (	13.06	8.2	JN
007667-60-9	Cyclohexane, 1,2,4-trimethyl-, (1.	9.33	15	JN

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:45
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB7 4-5	**Units:**	ug/Kg
Lab Code:	R1911946-003	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	72000	U	72000	2900	11150	12/17/19 13:16	
1,1,2,2-Tetrachloroethane	72000	U	72000	2900	11150	12/17/19 13:16	
1,1,2-Trichloroethane	72000	U	72000	2900	11150	12/17/19 13:16	
1,1,2-Trichloro-1,2,2-trifluoroethane	72000	U	72000	2900	11150	12/17/19 13:16	
1,1-Dichloroethane (1,1-DCA)	72000	U	72000	2900	11150	12/17/19 13:16	
1,1-Dichloroethene (1,1-DCE)	72000	U	72000	4200	11150	12/17/19 13:16	
1,2,3-Trichlorobenzene	72000	U	72000	7500	11150	12/17/19 13:16	
1,2,4-Trichlorobenzene	**15000**	**J**	72000	6100	11150	12/17/19 13:16	
1,2-Dibromo-3-chloropropane (DBCP)	72000	U	72000	4200	11150	12/17/19 13:16	
1,2-Dibromoethane	72000	U	72000	2900	11150	12/17/19 13:16	
1,2-Dichlorobenzene	72000	U	72000	2900	11150	12/17/19 13:16	
1,2-Dichloroethane	72000	U	72000	2900	11150	12/17/19 13:16	
1,2-Dichloropropane	72000	U	72000	2900	11150	12/17/19 13:16	
1,3-Dichlorobenzene	72000	U	72000	2900	11150	12/17/19 13:16	
1,4-Dichlorobenzene	72000	U	72000	3200	11150	12/17/19 13:16	
1,4-Dioxane	1400000	U	1400000	290000	11150	12/17/19 13:16	
2-Butanone (MEK)	72000	U	72000	29000	11150	12/17/19 13:16	
2-Hexanone	72000	U	72000	5200	11150	12/17/19 13:16	
4-Methyl-2-pentanone	72000	U	72000	3300	11150	12/17/19 13:16	
Acetone	72000	U	72000	68000	11150	12/17/19 13:16	
Benzene	**7100**	**J**	72000	2900	11150	12/17/19 13:16	
Bromochloromethane	72000	U	72000	2900	11150	12/17/19 13:16	
Bromodichloromethane	72000	U	72000	2900	11150	12/17/19 13:16	
Bromoform	72000	U	72000	7200	11150	12/17/19 13:16	
Bromomethane	72000	U	72000	31000	11150	12/17/19 13:16	
Carbon Disulfide	72000	U	72000	4200	11150	12/17/19 13:16	
Carbon Tetrachloride	72000	U	72000	3800	11150	12/17/19 13:16	
Chlorobenzene	72000	U	72000	2900	11150	12/17/19 13:16	
Chloroethane	72000	U	72000	2900	11150	12/17/19 13:16	
Chloroform	72000	U	72000	2900	11150	12/17/19 13:16	
Chloromethane	72000	U	72000	21000	11150	12/17/19 13:16	
Cyclohexane	72000	U	72000	3800	11150	12/17/19 13:16	
Dibromochloromethane	72000	U	72000	2900	11150	12/17/19 13:16	
Dichlorodifluoromethane (CFC 12)	72000	U	72000	4800	11150	12/17/19 13:16	
Dichloromethane	72000	U	72000	41000	11150	12/17/19 13:16	
Ethylbenzene	**680000**		72000	2900	11150	12/17/19 13:16	
Isopropylbenzene (Cumene)	**56000**	**J**	72000	2900	11150	12/17/19 13:16	
Methyl Acetate	72000	U	72000	13000	11150	12/17/19 13:16	
Methyl tert-Butyl Ether	72000	U	72000	2900	11150	12/17/19 13:16	
Methylcyclohexane	**6400**	**J**	72000	4500	11150	12/17/19 13:16	
Styrene	72000	U	72000	2900	11150	12/17/19 13:16	
Tetrachloroethene (PCE)	72000	U	72000	3300	11150	12/17/19 13:16	
Toluene	**1500000**		72000	2900	11150	12/17/19 13:16	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:45
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB7 4-5	**Units:**	ug/Kg
Lab Code:	R1911946-003	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	72000	U	72000	3200	11150	12/17/19 13:16	
Trichlorofluoromethane (CFC 11)	72000	U	72000	3800	11150	12/17/19 13:16	
Vinyl Chloride	72000	U	72000	6600	11150	12/17/19 13:16	
cis-1,2-Dichloroethene	72000	U	72000	2900	11150	12/17/19 13:16	
cis-1,3-Dichloropropene	72000	U	72000	2900	11150	12/17/19 13:16	
m,p-Xylenes	**2900000**		140000	5300	11150	12/17/19 13:16	
o-Xylene	**970000**		72000	2900	11150	12/17/19 13:16	
trans-1,2-Dichloroethene	72000	U	72000	2900	11150	12/17/19 13:16	
trans-1,3-Dichloropropene	72000	U	72000	2900	11150	12/17/19 13:16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	31 - 154	12/17/19 13:16	
Dibromofluoromethane	89	63 - 138	12/17/19 13:16	
Toluene-d8	96	66 - 138	12/17/19 13:16	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	10.48	230000	J
	unknown	10.79	210000	J
	unknown	10.88	460000	J
000611-14-3	Benzene, 1-ethyl-2-methyl-	11.06	600000	JN
000108-67-8	Benzene, 1,3,5-trimethyl-	11.14	590000	JN
000124-18-5	Decane	11.19	1400000	JN
000622-96-8	Benzene, 1-ethyl-4-methyl-	11.31	250000	JN
000095-36-3	1,2,4-Trimethylbenzene	11.46	1900000	JN
	unknown	11.63	290000	J
001678-93-9	Cyclohexane, butyl-	11.67	280000	JN
000526-73-8	Benzene, 1,2,3-trimethyl-	11.81	950000	JN
013151-34-3	Decane, 3-methyl-	11.93	230000	JN
001074-43-7	Benzene, 1-methyl-3-propyl-	12.01	590000	JN
001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	12.06	810000	JN
001120-21-4	Undecane	12.19	1200000	JN
000934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	12.28	250000	JN
000099-87-6	Benzene, 1-methyl-4-(1-methylethyl	12.31	320000	JN
002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	12.37	500000	JN
000527-53-7	Benzene, 1,2,3,5-tetramethyl-	12.73	290000	JN
	unknown	13.06	410000	J

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:45
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB7 6-8	**Units:**	ug/Kg
Lab Code:	R1911946-004	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	14000	U	14000	570	1910	12/16/19 19:08	
1,1,2,2-Tetrachloroethane	14000	U	14000	570	1910	12/16/19 19:08	
1,1,2-Trichloroethane	14000	U	14000	570	1910	12/16/19 19:08	
1,1,2-Trichloro-1,2,2-trifluoroethane	14000	U	14000	570	1910	12/16/19 19:08	
1,1-Dichloroethane (1,1-DCA)	14000	U	14000	570	1910	12/16/19 19:08	
1,1-Dichloroethene (1,1-DCE)	14000	U	14000	820	1910	12/16/19 19:08	
1,2,3-Trichlorobenzene	14000	U	14000	1500	1910	12/16/19 19:08	
1,2,4-Trichlorobenzene	14000	U	14000	1200	1910	12/16/19 19:08	
1,2-Dibromo-3-chloropropane (DBCP)	14000	U	14000	820	1910	12/16/19 19:08	
1,2-Dibromoethane	14000	U	14000	570	1910	12/16/19 19:08	
1,2-Dichlorobenzene	**23000**		14000	570	1910	12/16/19 19:08	
1,2-Dichloroethane	14000	U	14000	570	1910	12/16/19 19:08	
1,2-Dichloropropane	14000	U	14000	570	1910	12/16/19 19:08	
1,3-Dichlorobenzene	14000	U	14000	570	1910	12/16/19 19:08	
1,4-Dichlorobenzene	**2100**	**J**	14000	620	1910	12/16/19 19:08	
1,4-Dioxane	280000	U	280000	57000	1910	12/16/19 19:08	
2-Butanone (MEK)	14000	U	14000	5700	1910	12/16/19 19:08	
2-Hexanone	14000	U	14000	1100	1910	12/16/19 19:08	
4-Methyl-2-pentanone	**1600**	**J**	14000	650	1910	12/16/19 19:08	
Acetone	14000	U	14000	14000	1910	12/16/19 19:08	
Benzene	**19000**		14000	570	1910	12/16/19 19:08	
Bromochloromethane	14000	U	14000	570	1910	12/16/19 19:08	
Bromodichloromethane	14000	U	14000	570	1910	12/16/19 19:08	
Bromoform	14000	U	14000	1500	1910	12/16/19 19:08	
Bromomethane	14000	U	14000	6000	1910	12/16/19 19:08	
Carbon Disulfide	14000	U	14000	820	1910	12/16/19 19:08	
Carbon Tetrachloride	14000	U	14000	740	1910	12/16/19 19:08	
Chlorobenzene	**27000**		14000	570	1910	12/16/19 19:08	
Chloroethane	14000	U	14000	570	1910	12/16/19 19:08	
Chloroform	14000	U	14000	570	1910	12/16/19 19:08	
Chloromethane	14000	U	14000	4000	1910	12/16/19 19:08	
Cyclohexane	14000	U	14000	740	1910	12/16/19 19:08	
Dibromochloromethane	14000	U	14000	570	1910	12/16/19 19:08	
Dichlorodifluoromethane (CFC 12)	14000	U	14000	930	1910	12/16/19 19:08	
Dichloromethane	14000	U	14000	7900	1910	12/16/19 19:08	
Ethylbenzene	**730000**	**E**	14000	570	1910	12/16/19 19:08	
Isopropylbenzene (Cumene)	**49000**		14000	570	1910	12/16/19 19:08	
Methyl Acetate	14000	U	14000	2400	1910	12/16/19 19:08	
Methyl tert-Butyl Ether	14000	U	14000	570	1910	12/16/19 19:08	
Methylcyclohexane	**4700**	**J**	14000	880	1910	12/16/19 19:08	
Styrene	14000	U	14000	570	1910	12/16/19 19:08	
Tetrachloroethene (PCE)	14000	U	14000	650	1910	12/16/19 19:08	
Toluene	**120000**		14000	570	1910	12/16/19 19:08	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:45
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB7 6-8	**Units:**	ug/Kg
Lab Code:	R1911946-004	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	14000	U	14000	620	1910	12/16/19 19:08	
Trichlorofluoromethane (CFC 11)	14000	U	14000	740	1910	12/16/19 19:08	
Vinyl Chloride	14000	U	14000	1300	1910	12/16/19 19:08	
cis-1,2-Dichloroethene	**2200**	**J**	14000	570	1910	12/16/19 19:08	
cis-1,3-Dichloropropene	14000	U	14000	570	1910	12/16/19 19:08	
m,p-Xylenes	**2800000**	**E**	28000	1100	1910	12/16/19 19:08	
o-Xylene	**550000**		14000	570	1910	12/16/19 19:08	
trans-1,2-Dichloroethene	14000	U	14000	570	1910	12/16/19 19:08	
trans-1,3-Dichloropropene	14000	U	14000	570	1910	12/16/19 19:08	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	31 - 154	12/16/19 19:08	
Dibromofluoromethane	87	63 - 138	12/16/19 19:08	
Toluene-d8	96	66 - 138	12/16/19 19:08	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
001678-92-8	Cyclohexane, propyl-	10.48	65000	JN
	unknown	10.79	86000	J
005911-04-6	Nonane, 3-methyl-	10.88	120000	JN
000103-65-1	Benzene, propyl-	10.98	76000	JN
000611-14-3	Benzene, 1-ethyl-2-methyl-	11.06	350000	JN
000108-67-8	Benzene, 1,3,5-trimethyl-	11.14	280000	JN
000124-18-5	Decane	11.19	310000	JN
000622-96-8	Benzene, 1-ethyl-4-methyl-	11.31	91000	JN
000095-63-6	Benzene, 1,2,4-trimethyl-	11.46	680000	JN
	unknown	11.67	92000	J
000526-73-8	Benzene, 1,2,3-trimethyl-	11.81	230000	JN
006975-98-0	Decane, 2-methyl-	11.86	60000	JN
001074-43-7	Benzene, 1-methyl-3-propyl-	12.01	110000	JN
001120-21-4	Undecane	12.19	200000	JN
000535-77-3	Benzene, 1-methyl-3-(1-methylethyl	12.31	68000	JN
002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	12.37	110000	JN
	unknown	12.48	78000	J
000488-23-3	Benzene, 1,2,3,4-tetramethyl-	12.73	95000	JN
	unknown	13.06	85000	J
000111-84-2	Nonane	9.96	70000	JN

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:45
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB7 6-8	**Units:**	ug/Kg
Lab Code:	R1911946-004	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	70000	U	70000	2900	9550	12/17/19 13:38	
1,1,2,2-Tetrachloroethane	70000	U	70000	2900	9550	12/17/19 13:38	
1,1,2-Trichloroethane	70000	U	70000	2900	9550	12/17/19 13:38	
1,1,2-Trichloro-1,2,2-trifluoroethane	70000	U	70000	2900	9550	12/17/19 13:38	
1,1-Dichloroethane (1,1-DCA)	70000	U	70000	2900	9550	12/17/19 13:38	
1,1-Dichloroethene (1,1-DCE)	70000	U	70000	4100	9550	12/17/19 13:38	
1,2,3-Trichlorobenzene	70000	U	70000	7400	9550	12/17/19 13:38	
1,2,4-Trichlorobenzene	70000	U	70000	6000	9550	12/17/19 13:38	
1,2-Dibromo-3-chloropropane (DBCP)	70000	U	70000	4100	9550	12/17/19 13:38	
1,2-Dibromoethane	70000	U	70000	2900	9550	12/17/19 13:38	
1,2-Dichlorobenzene	**21000**	**DJ**	70000	2900	9550	12/17/19 13:38	
1,2-Dichloroethane	70000	U	70000	2900	9550	12/17/19 13:38	
1,2-Dichloropropane	70000	U	70000	2900	9550	12/17/19 13:38	
1,3-Dichlorobenzene	70000	U	70000	2900	9550	12/17/19 13:38	
1,4-Dichlorobenzene	70000	U	70000	3100	9550	12/17/19 13:38	
1,4-Dioxane	1400000	U	1400000	290000	9550	12/17/19 13:38	
2-Butanone (MEK)	70000	U	70000	29000	9550	12/17/19 13:38	
2-Hexanone	70000	U	70000	5100	9550	12/17/19 13:38	
4-Methyl-2-pentanone	70000	U	70000	3300	9550	12/17/19 13:38	
Acetone	70000	U	70000	67000	9550	12/17/19 13:38	
Benzene	**16000**	**DJ**	70000	2900	9550	12/17/19 13:38	
Bromochloromethane	70000	U	70000	2900	9550	12/17/19 13:38	
Bromodichloromethane	70000	U	70000	2900	9550	12/17/19 13:38	
Bromoform	70000	U	70000	7100	9550	12/17/19 13:38	
Bromomethane	70000	U	70000	30000	9550	12/17/19 13:38	
Carbon Disulfide	70000	U	70000	4100	9550	12/17/19 13:38	
Carbon Tetrachloride	70000	U	70000	3700	9550	12/17/19 13:38	
Chlorobenzene	**25000**	**DJ**	70000	2900	9550	12/17/19 13:38	
Chloroethane	70000	U	70000	2900	9550	12/17/19 13:38	
Chloroform	70000	U	70000	2900	9550	12/17/19 13:38	
Chloromethane	70000	U	70000	20000	9550	12/17/19 13:38	
Cyclohexane	70000	U	70000	3700	9550	12/17/19 13:38	
Dibromochloromethane	70000	U	70000	2900	9550	12/17/19 13:38	
Dichlorodifluoromethane (CFC 12)	70000	U	70000	4700	9550	12/17/19 13:38	
Dichloromethane	70000	U	70000	40000	9550	12/17/19 13:38	
Ethylbenzene	**640000**	**D**	70000	2900	9550	12/17/19 13:38	
Isopropylbenzene (Cumene)	**40000**	**DJ**	70000	2900	9550	12/17/19 13:38	
Methyl Acetate	70000	U	70000	12000	9550	12/17/19 13:38	
Methyl tert-Butyl Ether	70000	U	70000	2900	9550	12/17/19 13:38	
Methylcyclohexane	70000	U	70000	4400	9550	12/17/19 13:38	
Styrene	70000	U	70000	2900	9550	12/17/19 13:38	
Tetrachloroethene (PCE)	70000	U	70000	3300	9550	12/17/19 13:38	
Toluene	**100000**	**D**	70000	2900	9550	12/17/19 13:38	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:45
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB7 6-8	**Units:**	ug/Kg
Lab Code:	R1911946-004	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	70000	U	70000	3100	9550	12/17/19 13:38	
Trichlorofluoromethane (CFC 11)	70000	U	70000	3700	9550	12/17/19 13:38	
Vinyl Chloride	70000	U	70000	6500	9550	12/17/19 13:38	
cis-1,2-Dichloroethene	70000	U	70000	2900	9550	12/17/19 13:38	
cis-1,3-Dichloropropene	70000	U	70000	2900	9550	12/17/19 13:38	
m,p-Xylenes	**2500000**	**D**	140000	5300	9550	12/17/19 13:38	
o-Xylene	**480000**	**D**	70000	2900	9550	12/17/19 13:38	
trans-1,2-Dichloroethene	70000	U	70000	2900	9550	12/17/19 13:38	
trans-1,3-Dichloropropene	70000	U	70000	2900	9550	12/17/19 13:38	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	31 - 154	12/17/19 13:38	
Dibromofluoromethane	89	63 - 138	12/17/19 13:38	
Toluene-d8	96	66 - 138	12/17/19 13:38	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	10.88	95000	J
000103-65-1	Benzene, propyl-	10.98	75000	JN
000622-96-8	Benzene, 1-ethyl-4-methyl-	11.06	350000	JN
000108-67-8	Benzene, 1,3,5-trimethyl-	11.14	270000	JN
000124-18-5	Decane	11.19	240000	JN
000611-14-3	Benzene, 1-ethyl-2-methyl-	11.31	91000	JN
000095-63-6	Benzene, 1,2,4-trimethyl-	11.46	670000	JN
	unknown	11.67	78000	J
000526-73-8	Benzene, 1,2,3-trimethyl-	11.81	220000	JN
001074-43-7	Benzene, 1-methyl-3-propyl-	12.01	110000	JN
001120-21-4	Undecane	12.19	190000	JN
002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	12.37	120000	JN
000488-23-3	Benzene, 1,2,3,4-tetramethyl-	12.73	83000	JN
	unknown	13.06	130000	J

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:45
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB7 10-12	**Units:**	ug/Kg
Lab Code:	R1911946-005	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.6 U	5.6	0.23	1	12/18/19 13:14	
1,1,2,2-Tetrachloroethane	5.6 U	5.6	0.23	1	12/18/19 13:14	
1,1,2-Trichloroethane	5.6 U	5.6	0.23	1	12/18/19 13:14	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.6 U	5.6	0.23	1	12/18/19 13:14	
1,1-Dichloroethane (1,1-DCA)	5.6 U	5.6	0.23	1	12/18/19 13:14	
1,1-Dichloroethene (1,1-DCE)	5.6 U	5.6	0.33	1	12/18/19 13:14	
1,2,3-Trichlorobenzene	5.6 U	5.6	0.59	1	12/18/19 13:14	
1,2,4-Trichlorobenzene	5.6 U	5.6	0.48	1	12/18/19 13:14	
1,2-Dibromo-3-chloropropane (DBCP)	5.6 U	5.6	0.33	1	12/18/19 13:14	
1,2-Dibromoethane	5.6 U	5.6	0.23	1	12/18/19 13:14	
1,2-Dichlorobenzene	5.6 U	5.6	0.23	1	12/18/19 13:14	
1,2-Dichloroethane	**1.7 J**	5.6	0.23	1	12/18/19 13:14	
1,2-Dichloropropane	5.6 U	5.6	0.23	1	12/18/19 13:14	
1,3-Dichlorobenzene	5.6 U	5.6	0.23	1	12/18/19 13:14	
1,4-Dichlorobenzene	5.6 U	5.6	0.25	1	12/18/19 13:14	
1,4-Dioxane	110 U	110	23	1	12/18/19 13:14	
2-Butanone (MEK)	5.6 U	5.6	2.3	1	12/18/19 13:14	
2-Hexanone	5.6 U	5.6	0.41	1	12/18/19 13:14	
4-Methyl-2-pentanone	5.6 U	5.6	0.26	1	12/18/19 13:14	
Acetone	**15**	5.6	5.3	1	12/18/19 13:14	
Benzene	**0.62 J**	5.6	0.23	1	12/18/19 13:14	
Bromochloromethane	5.6 U	5.6	0.23	1	12/18/19 13:14	
Bromodichloromethane	5.6 U	5.6	0.23	1	12/18/19 13:14	
Bromoform	5.6 U	5.6	0.56	1	12/18/19 13:14	
Bromomethane	5.6 U	5.6	2.4	1	12/18/19 13:14	
Carbon Disulfide	5.6 U	5.6	0.33	1	12/18/19 13:14	
Carbon Tetrachloride	5.6 U	5.6	0.30	1	12/18/19 13:14	
Chlorobenzene	**0.24 J**	5.6	0.23	1	12/18/19 13:14	
Chloroethane	5.6 U	5.6	0.23	1	12/18/19 13:14	
Chloroform	5.6 U	5.6	0.23	1	12/18/19 13:14	
Chloromethane	5.6 U	5.6	1.6	1	12/18/19 13:14	
Cyclohexane	5.6 U	5.6	0.30	1	12/18/19 13:14	
Dibromochloromethane	5.6 U	5.6	0.23	1	12/18/19 13:14	
Dichlorodifluoromethane (CFC 12)	5.6 U	5.6	0.37	1	12/18/19 13:14	
Dichloromethane	5.6 U	5.6	3.2	1	12/18/19 13:14	
Ethylbenzene	**4.1 J**	5.6	0.23	1	12/18/19 13:14	
Isopropylbenzene (Cumene)	5.6 U	5.6	0.23	1	12/18/19 13:14	
Methyl Acetate	5.6 U	5.6	0.95	1	12/18/19 13:14	
Methyl tert-Butyl Ether	5.6 U	5.6	0.23	1	12/18/19 13:14	
Methylcyclohexane	5.6 U	5.6	0.35	1	12/18/19 13:14	
Styrene	5.6 U	5.6	0.23	1	12/18/19 13:14	
Tetrachloroethene (PCE)	5.6 U	5.6	0.26	1	12/18/19 13:14	
Toluene	**6.5**	5.6	0.23	1	12/18/19 13:14	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:45
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB7 10-12	**Units:**	ug/Kg
Lab Code:	R1911946-005	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.6 U	5.6	0.25	1	12/18/19 13:14	
Trichlorofluoromethane (CFC 11)	5.6 U	5.6	0.30	1	12/18/19 13:14	
Vinyl Chloride	5.6 U	5.6	0.52	1	12/18/19 13:14	
cis-1,2-Dichloroethene	5.6 U	5.6	0.23	1	12/18/19 13:14	
cis-1,3-Dichloropropene	5.6 U	5.6	0.23	1	12/18/19 13:14	
m,p-Xylenes	**17**	11	0.42	1	12/18/19 13:14	
o-Xylene	**3.5 J**	5.6	0.23	1	12/18/19 13:14	
trans-1,2-Dichloroethene	5.6 U	5.6	0.23	1	12/18/19 13:14	
trans-1,3-Dichloropropene	5.6 U	5.6	0.23	1	12/18/19 13:14	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	31 - 154	12/18/19 13:14	
Dibromofluoromethane	96	63 - 138	12/18/19 13:14	
Toluene-d8	100	66 - 138	12/18/19 13:14	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 09:45
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB1 1-2	**Units:**	ug/Kg
Lab Code:	R1911946-006	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	4.0 U	4.0	0.16	.67	12/11/19 18:02	
1,1,2,2-Tetrachloroethane	4.0 U	4.0	0.16	.67	12/11/19 18:02	
1,1,2-Trichloroethane	4.0 U	4.0	0.16	.67	12/11/19 18:02	
1,1,2-Trichloro-1,2,2-trifluoroethane	4.0 U	4.0	0.16	.67	12/11/19 18:02	
1,1-Dichloroethane (1,1-DCA)	4.0 U	4.0	0.16	.67	12/11/19 18:02	
1,1-Dichloroethene (1,1-DCE)	4.0 U	4.0	0.24	.67	12/11/19 18:02	
1,2,3-Trichlorobenzene	4.0 U	4.0	0.42	.67	12/11/19 18:02	
1,2,4-Trichlorobenzene	4.0 U	4.0	0.34	.67	12/11/19 18:02	
1,2-Dibromo-3-chloropropane (DBCP)	4.0 U	4.0	0.24	.67	12/11/19 18:02	
1,2-Dibromoethane	4.0 U	4.0	0.16	.67	12/11/19 18:02	
1,2-Dichlorobenzene	4.0 U	4.0	0.16	.67	12/11/19 18:02	
1,2-Dichloroethane	4.0 U	4.0	0.16	.67	12/11/19 18:02	
1,2-Dichloropropane	4.0 U	4.0	0.16	.67	12/11/19 18:02	
1,3-Dichlorobenzene	4.0 U	4.0	0.16	.67	12/11/19 18:02	
1,4-Dichlorobenzene	4.0 U	4.0	0.18	.67	12/11/19 18:02	
1,4-Dioxane	79 U	79	16	.67	12/11/19 18:02	
2-Butanone (MEK)	**6.7**	4.0	1.6	.67	12/11/19 18:02	
2-Hexanone	4.0 U	4.0	0.29	.67	12/11/19 18:02	
4-Methyl-2-pentanone	4.0 U	4.0	0.19	.67	12/11/19 18:02	
Acetone	**60**	4.0	3.8	.67	12/11/19 18:02	
Benzene	**0.54 J**	4.0	0.16	.67	12/11/19 18:02	
Bromochloromethane	4.0 U	4.0	0.16	.67	12/11/19 18:02	
Bromodichloromethane	4.0 U	4.0	0.16	.67	12/11/19 18:02	
Bromoform	4.0 U	4.0	0.40	.67	12/11/19 18:02	
Bromomethane	4.0 U	4.0	1.7	.67	12/11/19 18:02	
Carbon Disulfide	**0.29 J**	4.0	0.24	.67	12/11/19 18:02	
Carbon Tetrachloride	4.0 U	4.0	0.21	.67	12/11/19 18:02	
Chlorobenzene	**0.30 J**	4.0	0.16	.67	12/11/19 18:02	
Chloroethane	4.0 U	4.0	0.16	.67	12/11/19 18:02	
Chloroform	4.0 U	4.0	0.16	.67	12/11/19 18:02	
Chloromethane	4.0 U	4.0	1.2	.67	12/11/19 18:02	
Cyclohexane	**0.32 J**	4.0	0.21	.67	12/11/19 18:02	
Dibromochloromethane	4.0 U	4.0	0.16	.67	12/11/19 18:02	
Dichlorodifluoromethane (CFC 12)	4.0 U	4.0	0.27	.67	12/11/19 18:02	
Dichloromethane	4.0 U	4.0	2.3	.67	12/11/19 18:02	
Ethylbenzene	4.0 U	4.0	0.16	.67	12/11/19 18:02	
Isopropylbenzene (Cumene)	**1.2 J**	4.0	0.16	.67	12/11/19 18:02	
Methyl Acetate	**13**	4.0	0.67	.67	12/11/19 18:02	
Methyl tert-Butyl Ether	4.0 U	4.0	0.16	.67	12/11/19 18:02	
Methylcyclohexane	**3.4 J**	4.0	0.25	.67	12/11/19 18:02	
Styrene	4.0 U	4.0	0.16	.67	12/11/19 18:02	
Tetrachloroethene (PCE)	4.0 U	4.0	0.19	.67	12/11/19 18:02	
Toluene	**0.77 J**	4.0	0.16	.67	12/11/19 18:02	

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 09:45
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB1 1-2	**Units:**	ug/Kg
Lab Code:	R1911946-006	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	4.0 U	4.0	0.18	.67	12/11/19 18:02	
Trichlorofluoromethane (CFC 11)	4.0 U	4.0	0.21	.67	12/11/19 18:02	
Vinyl Chloride	4.0 U	4.0	0.37	.67	12/11/19 18:02	
cis-1,2-Dichloroethene	4.0 U	4.0	0.16	.67	12/11/19 18:02	
cis-1,3-Dichloropropene	4.0 U	4.0	0.16	.67	12/11/19 18:02	
m,p-Xylenes	**0.35 J**	7.9	0.30	.67	12/11/19 18:02	
o-Xylene	4.0 U	4.0	0.16	.67	12/11/19 18:02	
trans-1,2-Dichloroethene	4.0 U	4.0	0.16	.67	12/11/19 18:02	
trans-1,3-Dichloropropene	4.0 U	4.0	0.16	.67	12/11/19 18:02	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	31 - 154	12/11/19 18:02	
Dibromofluoromethane	93	63 - 138	12/11/19 18:02	
Toluene-d8	100	66 - 138	12/11/19 18:02	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
050876-31-8	Cyclohexane, 1,1,3,5-tetramethyl-,	10.16	15	JN
	unknown	10.19	14	J
	unknown	10.39	22	J
002051-30-1	Octane, 2,6-dimethyl-	10.42	15	JN
	unknown	10.55	14	J
	unknown	10.78	22	J
	unknown	10.88	95	J
	unknown	11.02	31	J
	unknown	11.06	32	J
	unknown	11.12	16	J
	unknown	11.17	19	J
	unknown	11.20	24	J
	unknown	11.44	39	J
	unknown	11.47	22	J
	unknown	11.57	22	J
	unknown	11.63	16	J
	unknown	11.66	24	J
	unknown	11.87	44	J
000493-02-7	Naphthalene, decahydro-, trans-	12.04	45	JN
003073-66-3	Cyclohexane, 1,1,3-trimethyl-	9.08	15	JN

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 10:11
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB1 17-18	**Units:**	ug/Kg
Lab Code:	R1911946-007	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	4.3 U	4.3	0.18	.72	12/11/19 18:25	
1,1,2,2-Tetrachloroethane	4.3 U	4.3	0.18	.72	12/11/19 18:25	
1,1,2-Trichloroethane	4.3 U	4.3	0.18	.72	12/11/19 18:25	
1,1,2-Trichloro-1,2,2-trifluoroethane	4.3 U	4.3	0.18	.72	12/11/19 18:25	
1,1-Dichloroethane (1,1-DCA)	4.3 U	4.3	0.18	.72	12/11/19 18:25	
1,1-Dichloroethene (1,1-DCE)	4.3 U	4.3	0.25	.72	12/11/19 18:25	
1,2,3-Trichlorobenzene	4.3 U	4.3	0.45	.72	12/11/19 18:25	
1,2,4-Trichlorobenzene	4.3 U	4.3	0.36	.72	12/11/19 18:25	
1,2-Dibromo-3-chloropropane (DBCP)	4.3 U	4.3	0.25	.72	12/11/19 18:25	
1,2-Dibromoethane	4.3 U	4.3	0.18	.72	12/11/19 18:25	
1,2-Dichlorobenzene	4.3 U	4.3	0.18	.72	12/11/19 18:25	
1,2-Dichloroethane	**0.43 J**	4.3	0.18	.72	12/11/19 18:25	
1,2-Dichloropropane	4.3 U	4.3	0.18	.72	12/11/19 18:25	
1,3-Dichlorobenzene	4.3 U	4.3	0.18	.72	12/11/19 18:25	
1,4-Dichlorobenzene	4.3 U	4.3	0.19	.72	12/11/19 18:25	
1,4-Dioxane	85 U	85	18	.72	12/11/19 18:25	
2-Butanone (MEK)	**14**	4.3	1.8	.72	12/11/19 18:25	
2-Hexanone	4.3 U	4.3	0.31	.72	12/11/19 18:25	
4-Methyl-2-pentanone	**0.23 J**	4.3	0.20	.72	12/11/19 18:25	
Acetone	**210 E**	4.3	4.0	.72	12/11/19 18:25	
Benzene	**0.98 J**	4.3	0.18	.72	12/11/19 18:25	
Bromochloromethane	4.3 U	4.3	0.18	.72	12/11/19 18:25	
Bromodichloromethane	4.3 U	4.3	0.18	.72	12/11/19 18:25	
Bromoform	4.3 U	4.3	0.43	.72	12/11/19 18:25	
Bromomethane	4.3 U	4.3	1.8	.72	12/11/19 18:25	
Carbon Disulfide	**3.7 J**	4.3	0.25	.72	12/11/19 18:25	
Carbon Tetrachloride	4.3 U	4.3	0.23	.72	12/11/19 18:25	
Chlorobenzene	**0.23 J**	4.3	0.18	.72	12/11/19 18:25	
Chloroethane	4.3 U	4.3	0.18	.72	12/11/19 18:25	
Chloroform	4.3 U	4.3	0.18	.72	12/11/19 18:25	
Chloromethane	4.3 U	4.3	1.2	.72	12/11/19 18:25	
Cyclohexane	**1.6 J**	4.3	0.23	.72	12/11/19 18:25	
Dibromochloromethane	4.3 U	4.3	0.18	.72	12/11/19 18:25	
Dichlorodifluoromethane (CFC 12)	4.3 U	4.3	0.29	.72	12/11/19 18:25	
Dichloromethane	4.3 U	4.3	2.4	.72	12/11/19 18:25	
Ethylbenzene	**0.63 J**	4.3	0.18	.72	12/11/19 18:25	
Isopropylbenzene (Cumene)	**0.34 J**	4.3	0.18	.72	12/11/19 18:25	
Methyl Acetate	**110**	4.3	0.72	.72	12/11/19 18:25	
Methyl tert-Butyl Ether	**0.50 J**	4.3	0.18	.72	12/11/19 18:25	
Methylcyclohexane	**3.7 J**	4.3	0.27	.72	12/11/19 18:25	
Styrene	4.3 U	4.3	0.18	.72	12/11/19 18:25	
Tetrachloroethene (PCE)	**0.94 J**	4.3	0.20	.72	12/11/19 18:25	
Toluene	**1.5 J**	4.3	0.18	.72	12/11/19 18:25	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 10:11
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB1 17-18	**Units:**	ug/Kg
Lab Code:	R1911946-007	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	4.3 U	4.3	0.19	.72	12/11/19 18:25	
Trichlorofluoromethane (CFC 11)	4.3 U	4.3	0.23	.72	12/11/19 18:25	
Vinyl Chloride	4.3 U	4.3	0.40	.72	12/11/19 18:25	
cis-1,2-Dichloroethene	4.3 U	4.3	0.18	.72	12/11/19 18:25	
cis-1,3-Dichloropropene	4.3 U	4.3	0.18	.72	12/11/19 18:25	
m,p-Xylenes	**2.9 J**	8.5	0.32	.72	12/11/19 18:25	
o-Xylene	**1.1 J**	4.3	0.18	.72	12/11/19 18:25	
trans-1,2-Dichloroethene	4.3 U	4.3	0.18	.72	12/11/19 18:25	
trans-1,3-Dichloropropene	4.3 U	4.3	0.18	.72	12/11/19 18:25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	84	31 - 154	12/11/19 18:25	
Dibromofluoromethane	94	63 - 138	12/11/19 18:25	
Toluene-d8	96	66 - 138	12/11/19 18:25	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
000115-07-1	Propene	1.02	7.7	JN
	unknown	10.88	17	J
	unknown	11.02	5.1	J
	unknown	11.06	5.7	J
	unknown	11.20	4.3	J
	unknown	11.45	11	J
	unknown	11.57	4.9	J
	unknown	11.66	4.5	J
000000-00-0	1-Ethyl-2,2,6-trimethylcyclohexane	11.88	12	JN
	unknown	12.06	11	J
	unknown	12.21	10	J
	unknown	12.57	4.3	J

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 10:11
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB1 17-18	**Units:**	ug/Kg
Lab Code:	R1911946-007	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	410 U	410	17	70	12/16/19 15:49	
1,1,2,2-Tetrachloroethane	410 U	410	17	70	12/16/19 15:49	
1,1,2-Trichloroethane	410 U	410	17	70	12/16/19 15:49	
1,1,2-Trichloro-1,2,2-trifluoroethane	410 U	410	17	70	12/16/19 15:49	
1,1-Dichloroethane (1,1-DCA)	410 U	410	17	70	12/16/19 15:49	
1,1-Dichloroethene (1,1-DCE)	410 U	410	24	70	12/16/19 15:49	
1,2,3-Trichlorobenzene	410 U	410	44	70	12/16/19 15:49	
1,2,4-Trichlorobenzene	410 U	410	35	70	12/16/19 15:49	
1,2-Dibromo-3-chloropropane (DBCP)	410 U	410	24	70	12/16/19 15:49	
1,2-Dibromoethane	410 U	410	17	70	12/16/19 15:49	
1,2-Dichlorobenzene	410 U	410	17	70	12/16/19 15:49	
1,2-Dichloroethane	410 U	410	17	70	12/16/19 15:49	
1,2-Dichloropropane	410 U	410	17	70	12/16/19 15:49	
1,3-Dichlorobenzene	410 U	410	17	70	12/16/19 15:49	
1,4-Dichlorobenzene	410 U	410	19	70	12/16/19 15:49	
1,4-Dioxane	8300 U	8300	1700	70	12/16/19 15:49	
2-Butanone (MEK)	410 U	410	170	70	12/16/19 15:49	
2-Hexanone	410 U	410	30	70	12/16/19 15:49	
4-Methyl-2-pentanone	410 U	410	20	70	12/16/19 15:49	
Acetone	410 U	410	390	70	12/16/19 15:49	
Benzene	410 U	410	17	70	12/16/19 15:49	
Bromochloromethane	410 U	410	17	70	12/16/19 15:49	
Bromodichloromethane	410 U	410	17	70	12/16/19 15:49	
Bromoform	410 U	410	42	70	12/16/19 15:49	
Bromomethane	410 U	410	180	70	12/16/19 15:49	
Carbon Disulfide	410 U	410	24	70	12/16/19 15:49	
Carbon Tetrachloride	410 U	410	22	70	12/16/19 15:49	
Chlorobenzene	410 U	410	17	70	12/16/19 15:49	
Chloroethane	410 U	410	17	70	12/16/19 15:49	
Chloroform	410 U	410	17	70	12/16/19 15:49	
Chloromethane	410 U	410	120	70	12/16/19 15:49	
Cyclohexane	410 U	410	22	70	12/16/19 15:49	
Dibromochloromethane	410 U	410	17	70	12/16/19 15:49	
Dichlorodifluoromethane (CFC 12)	410 U	410	28	70	12/16/19 15:49	
Dichloromethane	410 U	410	240	70	12/16/19 15:49	
Ethylbenzene	410 U	410	17	70	12/16/19 15:49	
Isopropylbenzene (Cumene)	410 U	410	17	70	12/16/19 15:49	
Methyl Acetate	**180 DJ**	410	70	70	12/16/19 15:49	
Methyl tert-Butyl Ether	410 U	410	17	70	12/16/19 15:49	
Methylcyclohexane	410 U	410	26	70	12/16/19 15:49	
Styrene	410 U	410	17	70	12/16/19 15:49	
Tetrachloroethene (PCE)	410 U	410	20	70	12/16/19 15:49	
Toluene	410 U	410	17	70	12/16/19 15:49	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 10:11
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB1 17-18	**Units:**	ug/Kg
Lab Code:	R1911946-007	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	410 U	410	19	70	12/16/19 15:49	
Trichlorofluoromethane (CFC 11)	410 U	410	22	70	12/16/19 15:49	
Vinyl Chloride	410 U	410	39	70	12/16/19 15:49	
cis-1,2-Dichloroethene	410 U	410	17	70	12/16/19 15:49	
cis-1,3-Dichloropropene	410 U	410	17	70	12/16/19 15:49	
m,p-Xylenes	830 U	830	31	70	12/16/19 15:49	
o-Xylene	410 U	410	17	70	12/16/19 15:49	
trans-1,2-Dichloroethene	410 U	410	17	70	12/16/19 15:49	
trans-1,3-Dichloropropene	410 U	410	17	70	12/16/19 15:49	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	31 - 154	12/16/19 15:49	
Dibromofluoromethane	79	63 - 138	12/16/19 15:49	
Toluene-d8	94	66 - 138	12/16/19 15:49	

Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:09
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB6 3-4	**Units:**	ug/Kg
Lab Code:	R1911946-001	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	410 U	410	97	1	12/18/19 17:43	12/10/19	
2,3,4,6-Tetrachlorophenol	410 U	410	86	1	12/18/19 17:43	12/10/19	
2,4,5-Trichlorophenol	410 U	410	350	1	12/18/19 17:43	12/10/19	
2,4,6-Trichlorophenol	410 U	410	72	1	12/18/19 17:43	12/10/19	
2,4-Dichlorophenol	410 U	410	87	1	12/18/19 17:43	12/10/19	
2,4-Dimethylphenol	410 U	410	90	1	12/18/19 17:43	12/10/19	
2,4-Dinitrophenol	2100 U	2100	150	1	12/18/19 17:43	12/10/19	
2,4-Dinitrotoluene	410 U	410	170	1	12/18/19 17:43	12/10/19	
2,6-Dinitrotoluene	410 U	410	120	1	12/18/19 17:43	12/10/19	
2-Chloronaphthalene	410 U	410	99	1	12/18/19 17:43	12/10/19	
2-Chlorophenol	410 U	410	110	1	12/18/19 17:43	12/10/19	
2-Methylnaphthalene	410 U	410	90	1	12/18/19 17:43	12/10/19	
2-Methylphenol	410 U	410	89	1	12/18/19 17:43	12/10/19	
2-Nitroaniline	2100 U	2100	130	1	12/18/19 17:43	12/10/19	
2-Nitrophenol	410 U	410	120	1	12/18/19 17:43	12/10/19	
3,3'-Dichlorobenzidine	410 U	410	86	1	12/18/19 17:43	12/10/19	
3- and 4-Methylphenol Coelution	410 U	410	79	1	12/18/19 17:43	12/10/19	
3-Nitroaniline	2100 U	2100	87	1	12/18/19 17:43	12/10/19	
4,6-Dinitro-2-methylphenol	2100 U	2100	180	1	12/18/19 17:43	12/10/19	
4-Bromophenyl Phenyl Ether	410 U	410	150	1	12/18/19 17:43	12/10/19	
4-Chloro-3-methylphenol	410 U	410	90	1	12/18/19 17:43	12/10/19	
4-Chloroaniline	410 U	410	97	1	12/18/19 17:43	12/10/19	
4-Chlorophenyl Phenyl Ether	410 U	410	99	1	12/18/19 17:43	12/10/19	
4-Nitroaniline	2100 U	2100	87	1	12/18/19 17:43	12/10/19	
4-Nitrophenol	2100 U	2100	140	1	12/18/19 17:43	12/10/19	
Acenaphthene	410 U	410	92	1	12/18/19 17:43	12/10/19	
Acenaphthylene	410 U	410	110	1	12/18/19 17:43	12/10/19	
Acetophenone	410 U	410	94	1	12/18/19 17:43	12/10/19	
Anthracene	410 U	410	120	1	12/18/19 17:43	12/10/19	
Atrazine	410 U	410	170	1	12/18/19 17:43	12/10/19	
Benz(a)anthracene	410 U	410	130	1	12/18/19 17:43	12/10/19	
Benzaldehyde	2100 U	2100	81	1	12/18/19 17:43	12/10/19	
Benzo(a)pyrene	410 U	410	150	1	12/18/19 17:43	12/10/19	
Benzo(b)fluoranthene	410 U	410	140	1	12/18/19 17:43	12/10/19	
Benzo(g,h,i)perylene	410 U	410	110	1	12/18/19 17:43	12/10/19	
Benzo(k)fluoranthene	410 U	410	150	1	12/18/19 17:43	12/10/19	
Biphenyl	410 U	410	110	1	12/18/19 17:43	12/10/19	
2,2'-Oxybis(1-chloropropane)	410 U	410	170	1	12/18/19 17:43	12/10/19	
Bis(2-chloroethoxy)methane	410 U	410	110	1	12/18/19 17:43	12/10/19	
Bis(2-chloroethyl) Ether	410 U	410	110	1	12/18/19 17:43	12/10/19	
Bis(2-ethylhexyl) Phthalate	620 U	620	110	1	12/18/19 17:43	12/10/19	
Butyl Benzyl Phthalate	410 U	410	110	1	12/18/19 17:43	12/10/19	
Caprolactam	410 U	410	110	1	12/18/19 17:43	12/10/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:09
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB6 3-4	**Units:**	ug/Kg
Lab Code:	R1911946-001	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	410 U	410	120	1	12/18/19 17:43	12/10/19	
Chrysene	410 U	410	150	1	12/18/19 17:43	12/10/19	
Di-n-butyl Phthalate	410 U	410	130	1	12/18/19 17:43	12/10/19	
Di-n-octyl Phthalate	410 U	410	130	1	12/18/19 17:43	12/10/19	
Dibenz(a,h)anthracene	410 U	410	130	1	12/18/19 17:43	12/10/19	
Dibenzofuran	410 U	410	81	1	12/18/19 17:43	12/10/19	
Diethyl Phthalate	410 U	410	87	1	12/18/19 17:43	12/10/19	
Dimethyl Phthalate	410 U	410	92	1	12/18/19 17:43	12/10/19	
Fluoranthene	410 U	410	150	1	12/18/19 17:43	12/10/19	
Fluorene	410 U	410	95	1	12/18/19 17:43	12/10/19	
Hexachlorobenzene	410 U	410	130	1	12/18/19 17:43	12/10/19	
Hexachlorobutadiene	410 U	410	100	1	12/18/19 17:43	12/10/19	
Hexachlorocyclopentadiene	410 U	410	90	1	12/18/19 17:43	12/10/19	
Hexachloroethane	410 U	410	110	1	12/18/19 17:43	12/10/19	
Indeno(1,2,3-cd)pyrene	410 U	410	140	1	12/18/19 17:43	12/10/19	
Isophorone	410 U	410	120	1	12/18/19 17:43	12/10/19	
N-Nitrosodi-n-propylamine	410 U	410	110	1	12/18/19 17:43	12/10/19	
N-Nitrosodiphenylamine	410 U	410	280	1	12/18/19 17:43	12/10/19	
Naphthalene	410 U	410	110	1	12/18/19 17:43	12/10/19	
Nitrobenzene	410 U	410	110	1	12/18/19 17:43	12/10/19	
Pentachlorophenol (PCP)	2100 U	2100	140	1	12/18/19 17:43	12/10/19	
Phenanthrene	410 U	410	120	1	12/18/19 17:43	12/10/19	
Phenol	410 U	410	97	1	12/18/19 17:43	12/10/19	
Pyrene	410 U	410	170	1	12/18/19 17:43	12/10/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	71	10 - 109	12/18/19 17:43	
2-Fluorobiphenyl	43	10 - 102	12/18/19 17:43	
2-Fluorophenol	40	10 - 88	12/18/19 17:43	
Nitrobenzene-d5	42	10 - 95	12/18/19 17:43	
Phenol-d6	41	10 - 145	12/18/19 17:43	
Terphenyl-d14	83	10 - 106	12/18/19 17:43	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
006566-19-4	10,18-Bisnorabieta-5,7,9(10),11,13	10.13	250	JN
	unknown hydrocarbon	11.87	170	J
000638-66-4	Octadecanal	14.11	300	JN
	unknown hydrocarbon	16.10	280	J
	unknown	3.18	2400	J
	unknown	6.09	270	J

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:09
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB 6-8	**Units:**	ug/Kg
Lab Code:	R1911946-002	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	390 U	390	93	1	12/18/19 18:11	12/10/19	
2,3,4,6-Tetrachlorophenol	390 U	390	83	1	12/18/19 18:11	12/10/19	
2,4,5-Trichlorophenol	390 U	390	340	1	12/18/19 18:11	12/10/19	
2,4,6-Trichlorophenol	390 U	390	70	1	12/18/19 18:11	12/10/19	
2,4-Dichlorophenol	390 U	390	84	1	12/18/19 18:11	12/10/19	
2,4-Dimethylphenol	390 U	390	86	1	12/18/19 18:11	12/10/19	
2,4-Dinitrophenol	2000 U	2000	150	1	12/18/19 18:11	12/10/19	
2,4-Dinitrotoluene	390 U	390	160	1	12/18/19 18:11	12/10/19	
2,6-Dinitrotoluene	390 U	390	120	1	12/18/19 18:11	12/10/19	
2-Chloronaphthalene	390 U	390	95	1	12/18/19 18:11	12/10/19	
2-Chlorophenol	390 U	390	97	1	12/18/19 18:11	12/10/19	
2-Methylnaphthalene	390 U	390	86	1	12/18/19 18:11	12/10/19	
2-Methylphenol	390 U	390	85	1	12/18/19 18:11	12/10/19	
2-Nitroaniline	2000 U	2000	120	1	12/18/19 18:11	12/10/19	
2-Nitrophenol	390 U	390	120	1	12/18/19 18:11	12/10/19	
3,3'-Dichlorobenzidine	390 U	390	83	1	12/18/19 18:11	12/10/19	
3- and 4-Methylphenol Coelution	390 U	390	76	1	12/18/19 18:11	12/10/19	
3-Nitroaniline	2000 U	2000	84	1	12/18/19 18:11	12/10/19	
4,6-Dinitro-2-methylphenol	2000 U	2000	170	1	12/18/19 18:11	12/10/19	
4-Bromophenyl Phenyl Ether	390 U	390	150	1	12/18/19 18:11	12/10/19	
4-Chloro-3-methylphenol	390 U	390	86	1	12/18/19 18:11	12/10/19	
4-Chloroaniline	390 U	390	93	1	12/18/19 18:11	12/10/19	
4-Chlorophenyl Phenyl Ether	390 U	390	95	1	12/18/19 18:11	12/10/19	
4-Nitroaniline	2000 U	2000	84	1	12/18/19 18:11	12/10/19	
4-Nitrophenol	2000 U	2000	140	1	12/18/19 18:11	12/10/19	
Acenaphthene	390 U	390	89	1	12/18/19 18:11	12/10/19	
Acenaphthylene	390 U	390	110	1	12/18/19 18:11	12/10/19	
Acetophenone	390 U	390	90	1	12/18/19 18:11	12/10/19	
Anthracene	390 U	390	110	1	12/18/19 18:11	12/10/19	
Atrazine	390 U	390	160	1	12/18/19 18:11	12/10/19	
Benz(a)anthracene	390 U	390	120	1	12/18/19 18:11	12/10/19	
Benzaldehyde	2000 U	2000	78	1	12/18/19 18:11	12/10/19	
Benzo(a)pyrene	390 U	390	150	1	12/18/19 18:11	12/10/19	
Benzo(b)fluoranthene	390 U	390	140	1	12/18/19 18:11	12/10/19	
Benzo(g,h,i)perylene	390 U	390	110	1	12/18/19 18:11	12/10/19	
Benzo(k)fluoranthene	390 U	390	150	1	12/18/19 18:11	12/10/19	
Biphenyl	390 U	390	97	1	12/18/19 18:11	12/10/19	
2,2'-Oxybis(1-chloropropane)	390 U	390	160	1	12/18/19 18:11	12/10/19	
Bis(2-chloroethoxy)methane	390 U	390	110	1	12/18/19 18:11	12/10/19	
Bis(2-chloroethyl) Ether	390 U	390	110	1	12/18/19 18:11	12/10/19	
Bis(2-ethylhexyl) Phthalate	**410 J**	600	110	1	12/18/19 18:11	12/10/19	
Butyl Benzyl Phthalate	390 U	390	98	1	12/18/19 18:11	12/10/19	
Caprolactam	390 U	390	110	1	12/18/19 18:11	12/10/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:09
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB 6-8	**Units:**	ug/Kg
Lab Code:	R1911946-002	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	390 U	390	120	1	12/18/19 18:11	12/10/19	
Chrysene	390 U	390	150	1	12/18/19 18:11	12/10/19	
Di-n-butyl Phthalate	390 U	390	120	1	12/18/19 18:11	12/10/19	
Di-n-octyl Phthalate	390 U	390	120	1	12/18/19 18:11	12/10/19	
Dibenz(a,h)anthracene	390 U	390	120	1	12/18/19 18:11	12/10/19	
Dibenzofuran	390 U	390	78	1	12/18/19 18:11	12/10/19	
Diethyl Phthalate	390 U	390	84	1	12/18/19 18:11	12/10/19	
Dimethyl Phthalate	390 U	390	89	1	12/18/19 18:11	12/10/19	
Fluoranthene	390 U	390	150	1	12/18/19 18:11	12/10/19	
Fluorene	390 U	390	91	1	12/18/19 18:11	12/10/19	
Hexachlorobenzene	390 U	390	120	1	12/18/19 18:11	12/10/19	
Hexachlorobutadiene	390 U	390	96	1	12/18/19 18:11	12/10/19	
Hexachlorocyclopentadiene	390 U	390	86	1	12/18/19 18:11	12/10/19	
Hexachloroethane	390 U	390	110	1	12/18/19 18:11	12/10/19	
Indeno(1,2,3-cd)pyrene	390 U	390	140	1	12/18/19 18:11	12/10/19	
Isophorone	390 U	390	110	1	12/18/19 18:11	12/10/19	
N-Nitrosodi-n-propylamine	390 U	390	110	1	12/18/19 18:11	12/10/19	
N-Nitrosodiphenylamine	390 U	390	270	1	12/18/19 18:11	12/10/19	
Naphthalene	390 U	390	110	1	12/18/19 18:11	12/10/19	
Nitrobenzene	390 U	390	110	1	12/18/19 18:11	12/10/19	
Pentachlorophenol (PCP)	2000 U	2000	140	1	12/18/19 18:11	12/10/19	
Phenanthrene	390 U	390	120	1	12/18/19 18:11	12/10/19	
Phenol	390 U	390	93	1	12/18/19 18:11	12/10/19	
Pyrene	390 U	390	160	1	12/18/19 18:11	12/10/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	73	10 - 109	12/18/19 18:11	
2-Fluorobiphenyl	57	10 - 102	12/18/19 18:11	
2-Fluorophenol	53	10 - 88	12/18/19 18:11	
Nitrobenzene-d5	56	10 - 95	12/18/19 18:11	
Phenol-d6	54	10 - 145	12/18/19 18:11	
Terphenyl-d14	73	10 - 106	12/18/19 18:11	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
000080-05-7	Phenol, 4,4'-(1-methylethylidene)b	10.39	480	JN
	unknown	3.25	42000	J
	unknown	4.66	270	J
001074-55-1	Benzene, 1-methyl-4-propyl-	4.88	340	JN
	unknown	5.89	320	J
	unknown	5.94	360	J

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:09
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB 6-8	**Units:**	ug/Kg
Lab Code:	R1911946-002	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	6.01	240	J
	unknown	6.12	890	J
	unknown	6.17	270	J
000140-66-9	Phenol, 4-(1,1,3,3-tetramethylbuty	7.94	270	JN
	unknown	8.34	440	J
	unknown	8.39	1100	J
	unknown	8.43	1900	J
	unknown	8.45	1300	J
	unknown	8.48	610	J
	unknown	8.51	920	J
	unknown	8.56	960	J
	unknown	8.60	1100	J
	unknown	8.62	430	J
	unknown	8.64	610	J

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:45
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB7 4-5	**Units:**	ug/Kg
Lab Code:	R1911946-003	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	430 U	430	110	1	12/18/19 18:39	12/10/19	
2,3,4,6-Tetrachlorophenol	430 U	430	91	1	12/18/19 18:39	12/10/19	
2,4,5-Trichlorophenol	430 U	430	370	1	12/18/19 18:39	12/10/19	
2,4,6-Trichlorophenol	430 U	430	77	1	12/18/19 18:39	12/10/19	
2,4-Dichlorophenol	430 U	430	92	1	12/18/19 18:39	12/10/19	
2,4-Dimethylphenol	430 U	430	95	1	12/18/19 18:39	12/10/19	
2,4-Dinitrophenol	2200 U	2200	160	1	12/18/19 18:39	12/10/19	
2,4-Dinitrotoluene	430 U	430	180	1	12/18/19 18:39	12/10/19	
2,6-Dinitrotoluene	430 U	430	130	1	12/18/19 18:39	12/10/19	
2-Chloronaphthalene	430 U	430	110	1	12/18/19 18:39	12/10/19	
2-Chlorophenol	430 U	430	110	1	12/18/19 18:39	12/10/19	
2-Methylnaphthalene	430 U	430	95	1	12/18/19 18:39	12/10/19	
2-Methylphenol	430 U	430	94	1	12/18/19 18:39	12/10/19	
2-Nitroaniline	2200 U	2200	130	1	12/18/19 18:39	12/10/19	
2-Nitrophenol	430 U	430	130	1	12/18/19 18:39	12/10/19	
3,3'-Dichlorobenzidine	430 U	430	91	1	12/18/19 18:39	12/10/19	
3- and 4-Methylphenol Coelution	430 U	430	83	1	12/18/19 18:39	12/10/19	
3-Nitroaniline	2200 U	2200	92	1	12/18/19 18:39	12/10/19	
4,6-Dinitro-2-methylphenol	2200 U	2200	190	1	12/18/19 18:39	12/10/19	
4-Bromophenyl Phenyl Ether	430 U	430	160	1	12/18/19 18:39	12/10/19	
4-Chloro-3-methylphenol	430 U	430	95	1	12/18/19 18:39	12/10/19	
4-Chloroaniline	430 U	430	110	1	12/18/19 18:39	12/10/19	
4-Chlorophenyl Phenyl Ether	430 U	430	110	1	12/18/19 18:39	12/10/19	
4-Nitroaniline	2200 U	2200	92	1	12/18/19 18:39	12/10/19	
4-Nitrophenol	2200 U	2200	150	1	12/18/19 18:39	12/10/19	
Acenaphthene	430 U	430	98	1	12/18/19 18:39	12/10/19	
Acenaphthylene	430 U	430	120	1	12/18/19 18:39	12/10/19	
Acetophenone	430 U	430	99	1	12/18/19 18:39	12/10/19	
Anthracene	**160 J**	430	130	1	12/18/19 18:39	12/10/19	
Atrazine	430 U	430	180	1	12/18/19 18:39	12/10/19	
Benz(a)anthracene	**340 J**	430	130	1	12/18/19 18:39	12/10/19	
Benzaldehyde	2200 U	2200	86	1	12/18/19 18:39	12/10/19	
Benzo(a)pyrene	**300 J**	430	160	1	12/18/19 18:39	12/10/19	
Benzo(b)fluoranthene	**380 J**	430	150	1	12/18/19 18:39	12/10/19	
Benzo(g,h,i)perylene	**160 J**	430	120	1	12/18/19 18:39	12/10/19	
Benzo(k)fluoranthene	430 U	430	160	1	12/18/19 18:39	12/10/19	
Biphenyl	430 U	430	110	1	12/18/19 18:39	12/10/19	
2,2'-Oxybis(1-chloropropane)	430 U	430	180	1	12/18/19 18:39	12/10/19	
Bis(2-chloroethoxy)methane	430 U	430	120	1	12/18/19 18:39	12/10/19	
Bis(2-chloroethyl) Ether	430 U	430	120	1	12/18/19 18:39	12/10/19	
Bis(2-ethylhexyl) Phthalate	**1200**	660	120	1	12/18/19 18:39	12/10/19	
Butyl Benzyl Phthalate	430 U	430	110	1	12/18/19 18:39	12/10/19	
Caprolactam	430 U	430	120	1	12/18/19 18:39	12/10/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:45
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB7 4-5	**Units:**	ug/Kg
Lab Code:	R1911946-003	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	430	U	430	130	1	12/18/19 18:39	12/10/19	
Chrysene	**350**	**J**	430	160	1	12/18/19 18:39	12/10/19	
Di-n-butyl Phthalate	430	U	430	140	1	12/18/19 18:39	12/10/19	
Di-n-octyl Phthalate	430	U	430	130	1	12/18/19 18:39	12/10/19	
Dibenz(a,h)anthracene	430	U	430	130	1	12/18/19 18:39	12/10/19	
Dibenzofuran	430	U	430	86	1	12/18/19 18:39	12/10/19	
Diethyl Phthalate	430	U	430	92	1	12/18/19 18:39	12/10/19	
Dimethyl Phthalate	430	U	430	98	1	12/18/19 18:39	12/10/19	
Fluoranthene	**850**		430	160	1	12/18/19 18:39	12/10/19	
Fluorene	430	U	430	100	1	12/18/19 18:39	12/10/19	
Hexachlorobenzene	430	U	430	140	1	12/18/19 18:39	12/10/19	
Hexachlorobutadiene	430	U	430	110	1	12/18/19 18:39	12/10/19	
Hexachlorocyclopentadiene	430	U	430	95	1	12/18/19 18:39	12/10/19	
Hexachloroethane	430	U	430	120	1	12/18/19 18:39	12/10/19	
Indeno(1,2,3-cd)pyrene	**180**	**J**	430	150	1	12/18/19 18:39	12/10/19	
Isophorone	430	U	430	120	1	12/18/19 18:39	12/10/19	
N-Nitrosodi-n-propylamine	430	U	430	120	1	12/18/19 18:39	12/10/19	
N-Nitrosodiphenylamine	430	U	430	290	1	12/18/19 18:39	12/10/19	
Naphthalene	430	U	430	120	1	12/18/19 18:39	12/10/19	
Nitrobenzene	430	U	430	120	1	12/18/19 18:39	12/10/19	
Pentachlorophenol (PCP)	2200	U	2200	150	1	12/18/19 18:39	12/10/19	
Phenanthrene	**670**		430	130	1	12/18/19 18:39	12/10/19	
Phenol	430	U	430	110	1	12/18/19 18:39	12/10/19	
Pyrene	**700**		430	180	1	12/18/19 18:39	12/10/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	75	10 - 109	12/18/19 18:39	
2-Fluorobiphenyl	40	10 - 102	12/18/19 18:39	
2-Fluorophenol	40	10 - 88	12/18/19 18:39	
Nitrobenzene-d5	36	10 - 95	12/18/19 18:39	
Phenol-d6	44	10 - 145	12/18/19 18:39	
Terphenyl-d14	74	10 - 106	12/18/19 18:39	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
006566-19-4	10,18-Bisnorabieta-5,7,9(10),11,13	10.13	180	JN
000080-05-7	Phenol, 4,4'-(1-methylethylidene)b	10.39	400	JN
	unknown	15.87	180	J
	unknown hydrocarbon	16.10	200	J
	unknown	16.50	330	J
	unknown	17.08	220	J

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:45
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB7 4-5	**Units:**	ug/Kg
Lab Code:	R1911946-003	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	3.17	1100	J
	unknown	4.08	200	J
000526-73-8	Benzene, 1,2,3-trimethyl-	4.38	440	JN
	unknown	4.82	240	J
	unknown	5.22	180	J
	unknown	5.31	220	J
	unknown	5.46	250	J
	unknown	5.98	420	J
	unknown	6.15	1900	J
	unknown	6.20	470	J
000057-10-3	n-Hexadecanoic acid	9.43	260	JN

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:45
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB7 6-8	**Units:**	ug/Kg
Lab Code:	R1911946-004	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	480	U	480	120	1	12/18/19 19:06	12/10/19	
2,3,4,6-Tetrachlorophenol	480	U	480	100	1	12/18/19 19:06	12/10/19	
2,4,5-Trichlorophenol	480	U	480	410	1	12/18/19 19:06	12/10/19	
2,4,6-Trichlorophenol	480	U	480	84	1	12/18/19 19:06	12/10/19	
2,4-Dichlorophenol	480	U	480	110	1	12/18/19 19:06	12/10/19	
2,4-Dimethylphenol	480	U	480	110	1	12/18/19 19:06	12/10/19	
2,4-Dinitrophenol	2400	U	2400	180	1	12/18/19 19:06	12/10/19	
2,4-Dinitrotoluene	480	U	480	190	1	12/18/19 19:06	12/10/19	
2,6-Dinitrotoluene	480	U	480	140	1	12/18/19 19:06	12/10/19	
2-Chloronaphthalene	480	U	480	120	1	12/18/19 19:06	12/10/19	
2-Chlorophenol	480	U	480	120	1	12/18/19 19:06	12/10/19	
2-Methylnaphthalene	480	U	480	110	1	12/18/19 19:06	12/10/19	
2-Methylphenol	480	U	480	110	1	12/18/19 19:06	12/10/19	
2-Nitroaniline	2400	U	2400	150	1	12/18/19 19:06	12/10/19	
2-Nitrophenol	480	U	480	140	1	12/18/19 19:06	12/10/19	
3,3'-Dichlorobenzidine	480	U	480	100	1	12/18/19 19:06	12/10/19	
3- and 4-Methylphenol Coelution	480	U	480	91	1	12/18/19 19:06	12/10/19	
3-Nitroaniline	2400	U	2400	110	1	12/18/19 19:06	12/10/19	
4,6-Dinitro-2-methylphenol	2400	U	2400	210	1	12/18/19 19:06	12/10/19	
4-Bromophenyl Phenyl Ether	480	U	480	180	1	12/18/19 19:06	12/10/19	
4-Chloro-3-methylphenol	480	U	480	110	1	12/18/19 19:06	12/10/19	
4-Chloroaniline	480	U	480	120	1	12/18/19 19:06	12/10/19	
4-Chlorophenyl Phenyl Ether	480	U	480	120	1	12/18/19 19:06	12/10/19	
4-Nitroaniline	2400	U	2400	110	1	12/18/19 19:06	12/10/19	
4-Nitrophenol	2400	U	2400	160	1	12/18/19 19:06	12/10/19	
Acenaphthene	480	U	480	110	1	12/18/19 19:06	12/10/19	
Acenaphthylene	480	U	480	130	1	12/18/19 19:06	12/10/19	
Acetophenone	480	U	480	110	1	12/18/19 19:06	12/10/19	
Anthracene	480	U	480	140	1	12/18/19 19:06	12/10/19	
Atrazine	480	U	480	190	1	12/18/19 19:06	12/10/19	
Benz(a)anthracene	480	U	480	140	1	12/18/19 19:06	12/10/19	
Benzaldehyde	2400	U	2400	94	1	12/18/19 19:06	12/10/19	
Benzo(a)pyrene	480	U	480	180	1	12/18/19 19:06	12/10/19	
Benzo(b)fluoranthene	480	U	480	160	1	12/18/19 19:06	12/10/19	
Benzo(g,h,i)perylene	480	U	480	130	1	12/18/19 19:06	12/10/19	
Benzo(k)fluoranthene	480	U	480	180	1	12/18/19 19:06	12/10/19	
Biphenyl	480	U	480	120	1	12/18/19 19:06	12/10/19	
2,2'-Oxybis(1-chloropropane)	480	U	480	190	1	12/18/19 19:06	12/10/19	
Bis(2-chloroethoxy)methane	480	U	480	130	1	12/18/19 19:06	12/10/19	
Bis(2-chloroethyl) Ether	480	U	480	130	1	12/18/19 19:06	12/10/19	
Bis(2-ethylhexyl) Phthalate	**840**		720	130	1	12/18/19 19:06	12/10/19	
Butyl Benzyl Phthalate	480	U	480	120	1	12/18/19 19:06	12/10/19	
Caprolactam	480	U	480	130	1	12/18/19 19:06	12/10/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:45
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB7 6-8	**Units:**	ug/Kg
Lab Code:	R1911946-004	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	480	U	480	140	1	12/18/19 19:06	12/10/19	
Chrysene	480	U	480	180	1	12/18/19 19:06	12/10/19	
Di-n-butyl Phthalate	**260**	**J**	480	150	1	12/18/19 19:06	12/10/19	
Di-n-octyl Phthalate	480	U	480	140	1	12/18/19 19:06	12/10/19	
Dibenz(a,h)anthracene	480	U	480	150	1	12/18/19 19:06	12/10/19	
Dibenzofuran	480	U	480	94	1	12/18/19 19:06	12/10/19	
Diethyl Phthalate	**120**	**J**	480	110	1	12/18/19 19:06	12/10/19	
Dimethyl Phthalate	480	U	480	110	1	12/18/19 19:06	12/10/19	
Fluoranthene	480	U	480	180	1	12/18/19 19:06	12/10/19	
Fluorene	480	U	480	110	1	12/18/19 19:06	12/10/19	
Hexachlorobenzene	480	U	480	150	1	12/18/19 19:06	12/10/19	
Hexachlorobutadiene	480	U	480	120	1	12/18/19 19:06	12/10/19	
Hexachlorocyclopentadiene	480	U	480	110	1	12/18/19 19:06	12/10/19	
Hexachloroethane	480	U	480	130	1	12/18/19 19:06	12/10/19	
Indeno(1,2,3-cd)pyrene	480	U	480	160	1	12/18/19 19:06	12/10/19	
Isophorone	480	U	480	130	1	12/18/19 19:06	12/10/19	
N-Nitrosodi-n-propylamine	480	U	480	130	1	12/18/19 19:06	12/10/19	
N-Nitrosodiphenylamine	480	U	480	320	1	12/18/19 19:06	12/10/19	
Naphthalene	**380**	**J**	480	130	1	12/18/19 19:06	12/10/19	
Nitrobenzene	480	U	480	130	1	12/18/19 19:06	12/10/19	
Pentachlorophenol (PCP)	2400	U	2400	160	1	12/18/19 19:06	12/10/19	
Phenanthrene	480	U	480	140	1	12/18/19 19:06	12/10/19	
Phenol	480	U	480	120	1	12/18/19 19:06	12/10/19	
Pyrene	480	U	480	190	1	12/18/19 19:06	12/10/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	49	10 - 109	12/18/19 19:06	
2-Fluorobiphenyl	41	10 - 102	12/18/19 19:06	
2-Fluorophenol	39	10 - 88	12/18/19 19:06	
Nitrobenzene-d5	43	10 - 95	12/18/19 19:06	
Phenol-d6	40	10 - 145	12/18/19 19:06	
Terphenyl-d14	55	10 - 106	12/18/19 19:06	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
006566-19-4	10,18-Bisnorabieta-5,7,9(10),11,13	10.13	510	JN
000563-04-2	Phosphoric acid, tris(3-methylphen	12.84	1300	JN
000078-32-0	Phosphoric acid, tris(4-methylphenyl) ester	13.05	2100	JN
	unknown	13.26	1200	J
	unknown	13.31	520	J
	unknown	13.54	660	J

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:45
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB7 6-8	**Units:**	ug/Kg
Lab Code:	R1911946-004	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	3.20	10000	J
000526-73-8	Benzene, 1,2,3-trimethyl-	4.38	1500	JN
001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	4.82	950	JN
000095-93-2	Benzene, 1,2,4,5-tetramethyl-	5.46	560	JN
	unknown	6.14	1500	J
	unknown	7.94	2500	J
	unknown	8.39	700	J
	unknown	8.42	1100	J
	unknown	8.45	950	J
	unknown	8.51	630	J
	unknown	8.56	640	J
	unknown	8.60	690	J

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:45
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB7 10-12	**Units:**	ug/Kg
Lab Code:	R1911946-005	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	380	U	380	90	1	12/18/19 19:34	12/10/19	
2,3,4,6-Tetrachlorophenol	380	U	380	79	1	12/18/19 19:34	12/10/19	
2,4,5-Trichlorophenol	380	U	380	320	1	12/18/19 19:34	12/10/19	
2,4,6-Trichlorophenol	380	U	380	67	1	12/18/19 19:34	12/10/19	
2,4-Dichlorophenol	380	U	380	80	1	12/18/19 19:34	12/10/19	
2,4-Dimethylphenol	380	U	380	83	1	12/18/19 19:34	12/10/19	
2,4-Dinitrophenol	1900	U	1900	140	1	12/18/19 19:34	12/10/19	
2,4-Dinitrotoluene	380	U	380	150	1	12/18/19 19:34	12/10/19	
2,6-Dinitrotoluene	380	U	380	110	1	12/18/19 19:34	12/10/19	
2-Chloronaphthalene	380	U	380	91	1	12/18/19 19:34	12/10/19	
2-Chlorophenol	380	U	380	93	1	12/18/19 19:34	12/10/19	
2-Methylnaphthalene	380	U	380	83	1	12/18/19 19:34	12/10/19	
2-Methylphenol	380	U	380	82	1	12/18/19 19:34	12/10/19	
2-Nitroaniline	1900	U	1900	120	1	12/18/19 19:34	12/10/19	
2-Nitrophenol	380	U	380	110	1	12/18/19 19:34	12/10/19	
3,3'-Dichlorobenzidine	380	U	380	79	1	12/18/19 19:34	12/10/19	
3- and 4-Methylphenol Coelution	380	U	380	72	1	12/18/19 19:34	12/10/19	
3-Nitroaniline	1900	U	1900	80	1	12/18/19 19:34	12/10/19	
4,6-Dinitro-2-methylphenol	1900	U	1900	160	1	12/18/19 19:34	12/10/19	
4-Bromophenyl Phenyl Ether	380	U	380	140	1	12/18/19 19:34	12/10/19	
4-Chloro-3-methylphenol	380	U	380	83	1	12/18/19 19:34	12/10/19	
4-Chloroaniline	380	U	380	90	1	12/18/19 19:34	12/10/19	
4-Chlorophenyl Phenyl Ether	380	U	380	91	1	12/18/19 19:34	12/10/19	
4-Nitroaniline	1900	U	1900	80	1	12/18/19 19:34	12/10/19	
4-Nitrophenol	1900	U	1900	130	1	12/18/19 19:34	12/10/19	
Acenaphthene	380	U	380	85	1	12/18/19 19:34	12/10/19	
Acenaphthylene	380	U	380	100	1	12/18/19 19:34	12/10/19	
Acetophenone	380	U	380	86	1	12/18/19 19:34	12/10/19	
Anthracene	380	U	380	110	1	12/18/19 19:34	12/10/19	
Atrazine	380	U	380	150	1	12/18/19 19:34	12/10/19	
Benz(a)anthracene	380	U	380	120	1	12/18/19 19:34	12/10/19	
Benzaldehyde	1900	U	1900	75	1	12/18/19 19:34	12/10/19	
Benzo(a)pyrene	380	U	380	140	1	12/18/19 19:34	12/10/19	
Benzo(b)fluoranthene	380	U	380	130	1	12/18/19 19:34	12/10/19	
Benzo(g,h,i)perylene	380	U	380	100	1	12/18/19 19:34	12/10/19	
Benzo(k)fluoranthene	380	U	380	140	1	12/18/19 19:34	12/10/19	
Biphenyl	380	U	380	93	1	12/18/19 19:34	12/10/19	
2,2'-Oxybis(1-chloropropane)	380	U	380	150	1	12/18/19 19:34	12/10/19	
Bis(2-chloroethoxy)methane	380	U	380	110	1	12/18/19 19:34	12/10/19	
Bis(2-chloroethyl) Ether	380	U	380	99	1	12/18/19 19:34	12/10/19	
Bis(2-ethylhexyl) Phthalate	**230**	**J**	570	110	1	12/18/19 19:34	12/10/19	
Butyl Benzyl Phthalate	380	U	380	94	1	12/18/19 19:34	12/10/19	
Caprolactam	380	U	380	99	1	12/18/19 19:34	12/10/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:45
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB7 10-12	**Units:**	ug/Kg
Lab Code:	R1911946-005	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	380	U	380	110	1	12/18/19 19:34	12/10/19	
Chrysene	380	U	380	140	1	12/18/19 19:34	12/10/19	
Di-n-butyl Phthalate	**140**	**J**	380	120	1	12/18/19 19:34	12/10/19	
Di-n-octyl Phthalate	380	U	380	120	1	12/18/19 19:34	12/10/19	
Dibenz(a,h)anthracene	380	U	380	120	1	12/18/19 19:34	12/10/19	
Dibenzofuran	380	U	380	75	1	12/18/19 19:34	12/10/19	
Diethyl Phthalate	380	U	380	80	1	12/18/19 19:34	12/10/19	
Dimethyl Phthalate	380	U	380	85	1	12/18/19 19:34	12/10/19	
Fluoranthene	380	U	380	140	1	12/18/19 19:34	12/10/19	
Fluorene	380	U	380	87	1	12/18/19 19:34	12/10/19	
Hexachlorobenzene	380	U	380	120	1	12/18/19 19:34	12/10/19	
Hexachlorobutadiene	380	U	380	92	1	12/18/19 19:34	12/10/19	
Hexachlorocyclopentadiene	380	U	380	83	1	12/18/19 19:34	12/10/19	
Hexachloroethane	380	U	380	98	1	12/18/19 19:34	12/10/19	
Indeno(1,2,3-cd)pyrene	380	U	380	130	1	12/18/19 19:34	12/10/19	
Isophorone	380	U	380	110	1	12/18/19 19:34	12/10/19	
N-Nitrosodi-n-propylamine	380	U	380	110	1	12/18/19 19:34	12/10/19	
N-Nitrosodiphenylamine	380	U	380	260	1	12/18/19 19:34	12/10/19	
Naphthalene	380	U	380	98	1	12/18/19 19:34	12/10/19	
Nitrobenzene	380	U	380	98	1	12/18/19 19:34	12/10/19	
Pentachlorophenol (PCP)	1900	U	1900	130	1	12/18/19 19:34	12/10/19	
Phenanthrene	380	U	380	110	1	12/18/19 19:34	12/10/19	
Phenol	380	U	380	90	1	12/18/19 19:34	12/10/19	
Pyrene	380	U	380	150	1	12/18/19 19:34	12/10/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	72	10 - 109	12/18/19 19:34	
2-Fluorobiphenyl	53	10 - 102	12/18/19 19:34	
2-Fluorophenol	51	10 - 88	12/18/19 19:34	
Nitrobenzene-d5	55	10 - 95	12/18/19 19:34	
Phenol-d6	53	10 - 145	12/18/19 19:34	
Terphenyl-d14	77	10 - 106	12/18/19 19:34	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
006566-19-4	10,18-Bisnorabieta-5,7,9(10),11,13	10.13	160	JN
000563-04-2	Phosphoric acid, tris(3-methylphen	12.83	380	JN
000078-32-0	Phosphoric acid, tris(4-methylphen	13.04	600	JN
	unknown	13.25	350	J
	unknown	3.18	2400	J
000108-67-8	Benzene, 1,3,5-trimethyl-	4.38	260	JN

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:45
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB7 10-12	**Units:**	ug/Kg
Lab Code:	R1911946-005	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	5.91	410	J
	unknown	6.17	300	J
000140-66-9	Phenol, 4-(1,1,3,3-tetramethylbuty	7.94	660	JN
	unknown	8.42	170	J

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 09:45
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB1 1-2	**Units:**	ug/Kg
Lab Code:	R1911946-006	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	390 U	390	93	1	12/20/19 16:30	12/12/19	
2,3,4,6-Tetrachlorophenol	390 U	390	82	1	12/20/19 16:30	12/12/19	
2,4,5-Trichlorophenol	390 U	390	340	1	12/20/19 16:30	12/12/19	
2,4,6-Trichlorophenol	390 U	390	69	1	12/20/19 16:30	12/12/19	
2,4-Dichlorophenol	390 U	390	83	1	12/20/19 16:30	12/12/19	
2,4-Dimethylphenol	390 U	390	86	1	12/20/19 16:30	12/12/19	
2,4-Dinitrophenol	2000 U	2000	150	1	12/20/19 16:30	12/12/19	
2,4-Dinitrotoluene	390 U	390	160	1	12/20/19 16:30	12/12/19	
2,6-Dinitrotoluene	390 U	390	120	1	12/20/19 16:30	12/12/19	
2-Chloronaphthalene	390 U	390	94	1	12/20/19 16:30	12/12/19	
2-Chlorophenol	390 U	390	96	1	12/20/19 16:30	12/12/19	
2-Methylnaphthalene	390 U	390	86	1	12/20/19 16:30	12/12/19	
2-Methylphenol	390 U	390	84	1	12/20/19 16:30	12/12/19	
2-Nitroaniline	2000 U	2000	120	1	12/20/19 16:30	12/12/19	
2-Nitrophenol	390 U	390	120	1	12/20/19 16:30	12/12/19	
3,3'-Dichlorobenzidine	390 U	390	82	1	12/20/19 16:30	12/12/19	
3- and 4-Methylphenol Coelution	390 U	390	75	1	12/20/19 16:30	12/12/19	
3-Nitroaniline	2000 U	2000	83	1	12/20/19 16:30	12/12/19	
4,6-Dinitro-2-methylphenol	2000 U	2000	170	1	12/20/19 16:30	12/12/19	
4-Bromophenyl Phenyl Ether	390 U	390	150	1	12/20/19 16:30	12/12/19	
4-Chloro-3-methylphenol	390 U	390	86	1	12/20/19 16:30	12/12/19	
4-Chloroaniline	390 U	390	93	1	12/20/19 16:30	12/12/19	
4-Chlorophenyl Phenyl Ether	390 U	390	94	1	12/20/19 16:30	12/12/19	
4-Nitroaniline	2000 U	2000	83	1	12/20/19 16:30	12/12/19	
4-Nitrophenol	2000 U	2000	140	1	12/20/19 16:30	12/12/19	
Acenaphthene	390 U	390	88	1	12/20/19 16:30	12/12/19	
Acenaphthylene	390 U	390	110	1	12/20/19 16:30	12/12/19	
Acetophenone	390 U	390	89	1	12/20/19 16:30	12/12/19	
Anthracene	390 U	390	110	1	12/20/19 16:30	12/12/19	
Atrazine	390 U	390	160	1	12/20/19 16:30	12/12/19	
Benz(a)anthracene	390 U	390	120	1	12/20/19 16:30	12/12/19	
Benzaldehyde	2000 U	2000	77	1	12/20/19 16:30	12/12/19	
Benzo(a)pyrene	390 U	390	150	1	12/20/19 16:30	12/12/19	
Benzo(b)fluoranthene	390 U	390	140	1	12/20/19 16:30	12/12/19	
Benzo(g,h,i)perylene	390 U	390	110	1	12/20/19 16:30	12/12/19	
Benzo(k)fluoranthene	390 U	390	150	1	12/20/19 16:30	12/12/19	
Biphenyl	390 U	390	96	1	12/20/19 16:30	12/12/19	
2,2'-Oxybis(1-chloropropane)	390 U	390	160	1	12/20/19 16:30	12/12/19	
Bis(2-chloroethoxy)methane	390 U	390	110	1	12/20/19 16:30	12/12/19	
Bis(2-chloroethyl) Ether	390 U	390	110	1	12/20/19 16:30	12/12/19	
Bis(2-ethylhexyl) Phthalate	590 U	590	110	1	12/20/19 16:30	12/12/19	
Butyl Benzyl Phthalate	390 U	390	97	1	12/20/19 16:30	12/12/19	
Caprolactam	390 U	390	110	1	12/20/19 16:30	12/12/19	

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 09:45
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB1 1-2	**Units:**	ug/Kg
Lab Code:	R1911946-006	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	390 U	390	120	1	12/20/19 16:30	12/12/19	
Chrysene	390 U	390	150	1	12/20/19 16:30	12/12/19	
Di-n-butyl Phthalate	390 U	390	120	1	12/20/19 16:30	12/12/19	
Di-n-octyl Phthalate	390 U	390	120	1	12/20/19 16:30	12/12/19	
Dibenz(a,h)anthracene	390 U	390	120	1	12/20/19 16:30	12/12/19	
Dibenzofuran	390 U	390	77	1	12/20/19 16:30	12/12/19	
Diethyl Phthalate	390 U	390	83	1	12/20/19 16:30	12/12/19	
Dimethyl Phthalate	390 U	390	88	1	12/20/19 16:30	12/12/19	
Fluoranthene	390 U	390	150	1	12/20/19 16:30	12/12/19	
Fluorene	390 U	390	90	1	12/20/19 16:30	12/12/19	
Hexachlorobenzene	390 U	390	120	1	12/20/19 16:30	12/12/19	
Hexachlorobutadiene	390 U	390	95	1	12/20/19 16:30	12/12/19	
Hexachlorocyclopentadiene	390 U	390	86	1	12/20/19 16:30	12/12/19	
Hexachloroethane	390 U	390	110	1	12/20/19 16:30	12/12/19	
Indeno(1,2,3-cd)pyrene	390 U	390	140	1	12/20/19 16:30	12/12/19	
Isophorone	390 U	390	110	1	12/20/19 16:30	12/12/19	
N-Nitrosodi-n-propylamine	390 U	390	110	1	12/20/19 16:30	12/12/19	
N-Nitrosodiphenylamine	390 U	390	270	1	12/20/19 16:30	12/12/19	
Naphthalene	390 U	390	110	1	12/20/19 16:30	12/12/19	
Nitrobenzene	390 U	390	110	1	12/20/19 16:30	12/12/19	
Pentachlorophenol (PCP)	2000 U	2000	140	1	12/20/19 16:30	12/12/19	
Phenanthrene	390 U	390	120	1	12/20/19 16:30	12/12/19	
Phenol	390 U	390	93	1	12/20/19 16:30	12/12/19	
Pyrene	390 U	390	160	1	12/20/19 16:30	12/12/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	70	10 - 109	12/20/19 16:30	
2-Fluorobiphenyl	46	10 - 102	12/20/19 16:30	
2-Fluorophenol	38	10 - 88	12/20/19 16:30	
Nitrobenzene-d5	37	10 - 95	12/20/19 16:30	
Phenol-d6	42	10 - 145	12/20/19 16:30	
Terphenyl-d14	82	10 - 106	12/20/19 16:30	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
006971-40-0	17-Pentatriacontene	13.38	230	JN
	unknown	3.45	14000	J

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 10:11
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB1 17-18	**Units:**	ug/Kg
Lab Code:	R1911946-007	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	390 U	390	93	1	12/20/19 16:59	12/12/19	
2,3,4,6-Tetrachlorophenol	390 U	390	82	1	12/20/19 16:59	12/12/19	
2,4,5-Trichlorophenol	390 U	390	340	1	12/20/19 16:59	12/12/19	
2,4,6-Trichlorophenol	390 U	390	69	1	12/20/19 16:59	12/12/19	
2,4-Dichlorophenol	390 U	390	83	1	12/20/19 16:59	12/12/19	
2,4-Dimethylphenol	390 U	390	86	1	12/20/19 16:59	12/12/19	
2,4-Dinitrophenol	2000 U	2000	150	1	12/20/19 16:59	12/12/19	
2,4-Dinitrotoluene	390 U	390	160	1	12/20/19 16:59	12/12/19	
2,6-Dinitrotoluene	390 U	390	120	1	12/20/19 16:59	12/12/19	
2-Chloronaphthalene	390 U	390	94	1	12/20/19 16:59	12/12/19	
2-Chlorophenol	390 U	390	96	1	12/20/19 16:59	12/12/19	
2-Methylnaphthalene	390 U	390	86	1	12/20/19 16:59	12/12/19	
2-Methylphenol	390 U	390	84	1	12/20/19 16:59	12/12/19	
2-Nitroaniline	2000 U	2000	120	1	12/20/19 16:59	12/12/19	
2-Nitrophenol	390 U	390	120	1	12/20/19 16:59	12/12/19	
3,3'-Dichlorobenzidine	390 U	390	82	1	12/20/19 16:59	12/12/19	
3- and 4-Methylphenol Coelution	390 U	390	75	1	12/20/19 16:59	12/12/19	
3-Nitroaniline	2000 U	2000	83	1	12/20/19 16:59	12/12/19	
4,6-Dinitro-2-methylphenol	2000 U	2000	170	1	12/20/19 16:59	12/12/19	
4-Bromophenyl Phenyl Ether	390 U	390	150	1	12/20/19 16:59	12/12/19	
4-Chloro-3-methylphenol	390 U	390	86	1	12/20/19 16:59	12/12/19	
4-Chloroaniline	390 U	390	93	1	12/20/19 16:59	12/12/19	
4-Chlorophenyl Phenyl Ether	390 U	390	94	1	12/20/19 16:59	12/12/19	
4-Nitroaniline	2000 U	2000	83	1	12/20/19 16:59	12/12/19	
4-Nitrophenol	2000 U	2000	140	1	12/20/19 16:59	12/12/19	
Acenaphthene	390 U	390	88	1	12/20/19 16:59	12/12/19	
Acenaphthylene	390 U	390	110	1	12/20/19 16:59	12/12/19	
Acetophenone	390 U	390	89	1	12/20/19 16:59	12/12/19	
Anthracene	390 U	390	110	1	12/20/19 16:59	12/12/19	
Atrazine	390 U	390	160	1	12/20/19 16:59	12/12/19	
Benz(a)anthracene	390 U	390	120	1	12/20/19 16:59	12/12/19	
Benzaldehyde	2000 U	2000	77	1	12/20/19 16:59	12/12/19	
Benzo(a)pyrene	390 U	390	150	1	12/20/19 16:59	12/12/19	
Benzo(b)fluoranthene	390 U	390	140	1	12/20/19 16:59	12/12/19	
Benzo(g,h,i)perylene	390 U	390	110	1	12/20/19 16:59	12/12/19	
Benzo(k)fluoranthene	390 U	390	150	1	12/20/19 16:59	12/12/19	
Biphenyl	390 U	390	96	1	12/20/19 16:59	12/12/19	
2,2'-Oxybis(1-chloropropane)	390 U	390	160	1	12/20/19 16:59	12/12/19	
Bis(2-chloroethoxy)methane	390 U	390	110	1	12/20/19 16:59	12/12/19	
Bis(2-chloroethyl) Ether	390 U	390	110	1	12/20/19 16:59	12/12/19	
Bis(2-ethylhexyl) Phthalate	590 U	590	110	1	12/20/19 16:59	12/12/19	
Butyl Benzyl Phthalate	390 U	390	97	1	12/20/19 16:59	12/12/19	
Caprolactam	390 U	390	110	1	12/20/19 16:59	12/12/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 10:11
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB1 17-18	**Units:**	ug/Kg
Lab Code:	R1911946-007	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	390 U	390	120	1	12/20/19 16:59	12/12/19	
Chrysene	390 U	390	150	1	12/20/19 16:59	12/12/19	
Di-n-butyl Phthalate	390 U	390	120	1	12/20/19 16:59	12/12/19	
Di-n-octyl Phthalate	390 U	390	120	1	12/20/19 16:59	12/12/19	
Dibenz(a,h)anthracene	390 U	390	120	1	12/20/19 16:59	12/12/19	
Dibenzofuran	390 U	390	77	1	12/20/19 16:59	12/12/19	
Diethyl Phthalate	390 U	390	83	1	12/20/19 16:59	12/12/19	
Dimethyl Phthalate	390 U	390	88	1	12/20/19 16:59	12/12/19	
Fluoranthene	390 U	390	150	1	12/20/19 16:59	12/12/19	
Fluorene	390 U	390	90	1	12/20/19 16:59	12/12/19	
Hexachlorobenzene	390 U	390	120	1	12/20/19 16:59	12/12/19	
Hexachlorobutadiene	390 U	390	95	1	12/20/19 16:59	12/12/19	
Hexachlorocyclopentadiene	390 U	390	86	1	12/20/19 16:59	12/12/19	
Hexachloroethane	390 U	390	110	1	12/20/19 16:59	12/12/19	
Indeno(1,2,3-cd)pyrene	390 U	390	140	1	12/20/19 16:59	12/12/19	
Isophorone	390 U	390	110	1	12/20/19 16:59	12/12/19	
N-Nitrosodi-n-propylamine	390 U	390	110	1	12/20/19 16:59	12/12/19	
N-Nitrosodiphenylamine	390 U	390	270	1	12/20/19 16:59	12/12/19	
Naphthalene	390 U	390	110	1	12/20/19 16:59	12/12/19	
Nitrobenzene	390 U	390	110	1	12/20/19 16:59	12/12/19	
Pentachlorophenol (PCP)	2000 U	2000	140	1	12/20/19 16:59	12/12/19	
Phenanthrene	390 U	390	120	1	12/20/19 16:59	12/12/19	
Phenol	390 U	390	93	1	12/20/19 16:59	12/12/19	
Pyrene	390 U	390	160	1	12/20/19 16:59	12/12/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	64	10 - 109	12/20/19 16:59	
2-Fluorobiphenyl	52	10 - 102	12/20/19 16:59	
2-Fluorophenol	45	10 - 88	12/20/19 16:59	
Nitrobenzene-d5	48	10 - 95	12/20/19 16:59	
Phenol-d6	48	10 - 145	12/20/19 16:59	
Terphenyl-d14	75	10 - 106	12/20/19 16:59	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	13.69	170	J
	unknown	3.43	8900	J

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 13:06
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SS-1	**Units:**	ug/Kg
Lab Code:	R1911946-008	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	1100	U	1100	270	3	12/20/19 17:27	12/12/19	
2,3,4,6-Tetrachlorophenol	1100	U	1100	240	3	12/20/19 17:27	12/12/19	
2,4,5-Trichlorophenol	1100	U	1100	970	3	12/20/19 17:27	12/12/19	
2,4,6-Trichlorophenol	1100	U	1100	210	3	12/20/19 17:27	12/12/19	
2,4-Dichlorophenol	1100	U	1100	250	3	12/20/19 17:27	12/12/19	
2,4-Dimethylphenol	1100	U	1100	250	3	12/20/19 17:27	12/12/19	
2,4-Dinitrophenol	5900	U	5900	420	3	12/20/19 17:27	12/12/19	
2,4-Dinitrotoluene	1100	U	1100	450	3	12/20/19 17:27	12/12/19	
2,6-Dinitrotoluene	1100	U	1100	340	3	12/20/19 17:27	12/12/19	
2-Chloronaphthalene	1100	U	1100	280	3	12/20/19 17:27	12/12/19	
2-Chlorophenol	1100	U	1100	280	3	12/20/19 17:27	12/12/19	
2-Methylnaphthalene	1100	U	1100	250	3	12/20/19 17:27	12/12/19	
2-Methylphenol	1100	U	1100	250	3	12/20/19 17:27	12/12/19	
2-Nitroaniline	5900	U	5900	340	3	12/20/19 17:27	12/12/19	
2-Nitrophenol	1100	U	1100	330	3	12/20/19 17:27	12/12/19	
3,3'-Dichlorobenzidine	1100	U	1100	240	3	12/20/19 17:27	12/12/19	
3- and 4-Methylphenol Coelution	1100	U	1100	220	3	12/20/19 17:27	12/12/19	
3-Nitroaniline	5900	U	5900	250	3	12/20/19 17:27	12/12/19	
4,6-Dinitro-2-methylphenol	5900	U	5900	490	3	12/20/19 17:27	12/12/19	
4-Bromophenyl Phenyl Ether	1100	U	1100	420	3	12/20/19 17:27	12/12/19	
4-Chloro-3-methylphenol	1100	U	1100	250	3	12/20/19 17:27	12/12/19	
4-Chloroaniline	1100	U	1100	270	3	12/20/19 17:27	12/12/19	
4-Chlorophenyl Phenyl Ether	1100	U	1100	280	3	12/20/19 17:27	12/12/19	
4-Nitroaniline	5900	U	5900	250	3	12/20/19 17:27	12/12/19	
4-Nitrophenol	5900	U	5900	380	3	12/20/19 17:27	12/12/19	
Acenaphthene	**300**	**J**	1100	260	3	12/20/19 17:27	12/12/19	
Acenaphthylene	1100	U	1100	310	3	12/20/19 17:27	12/12/19	
Acetophenone	1100	U	1100	260	3	12/20/19 17:27	12/12/19	
Anthracene	**1100**	**J**	1100	320	3	12/20/19 17:27	12/12/19	
Atrazine	1100	U	1100	450	3	12/20/19 17:27	12/12/19	
Benz(a)anthracene	**7100**		1100	340	3	12/20/19 17:27	12/12/19	
Benzaldehyde	5900	U	5900	230	3	12/20/19 17:27	12/12/19	
Benzo(a)pyrene	**9800**		1100	420	3	12/20/19 17:27	12/12/19	
Benzo(b)fluoranthene	**17000**	**D**	1900	640	5	12/26/19 12:08	12/12/19	
Benzo(g,h,i)perylene	**7400**		1100	310	3	12/20/19 17:27	12/12/19	
Benzo(k)fluoranthene	**5100**		1100	420	3	12/20/19 17:27	12/12/19	
Biphenyl	1100	U	1100	280	3	12/20/19 17:27	12/12/19	
2,2'-Oxybis(1-chloropropane)	1100	U	1100	450	3	12/20/19 17:27	12/12/19	
Bis(2-chloroethoxy)methane	1100	U	1100	310	3	12/20/19 17:27	12/12/19	
Bis(2-chloroethyl) Ether	1100	U	1100	300	3	12/20/19 17:27	12/12/19	
Bis(2-ethylhexyl) Phthalate	**590**	**J**	1700	310	3	12/20/19 17:27	12/12/19	
Butyl Benzyl Phthalate	1100	U	1100	290	3	12/20/19 17:27	12/12/19	
Caprolactam	1100	U	1100	300	3	12/20/19 17:27	12/12/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 13:06
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SS-1	**Units:**	ug/Kg
Lab Code:	R1911946-008	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	**2100**	1100	330	3	12/20/19 17:27	12/12/19	
Chrysene	**9900**	1100	420	3	12/20/19 17:27	12/12/19	
Di-n-butyl Phthalate	1100 U	1100	350	3	12/20/19 17:27	12/12/19	
Di-n-octyl Phthalate	1100 U	1100	340	3	12/20/19 17:27	12/12/19	
Dibenz(a,h)anthracene	**1800**	1100	340	3	12/20/19 17:27	12/12/19	
Dibenzofuran	1100 U	1100	230	3	12/20/19 17:27	12/12/19	
Diethyl Phthalate	1100 U	1100	250	3	12/20/19 17:27	12/12/19	
Dimethyl Phthalate	1100 U	1100	260	3	12/20/19 17:27	12/12/19	
Fluoranthene	**11000**	1100	420	3	12/20/19 17:27	12/12/19	
Fluorene	**430 J**	1100	270	3	12/20/19 17:27	12/12/19	
Hexachlorobenzene	1100 U	1100	350	3	12/20/19 17:27	12/12/19	
Hexachlorobutadiene	1100 U	1100	280	3	12/20/19 17:27	12/12/19	
Hexachlorocyclopentadiene	1100 U	1100	250	3	12/20/19 17:27	12/12/19	
Hexachloroethane	1100 U	1100	300	3	12/20/19 17:27	12/12/19	
Indeno(1,2,3-cd)pyrene	**8500**	1100	380	3	12/20/19 17:27	12/12/19	
Isophorone	1100 U	1100	320	3	12/20/19 17:27	12/12/19	
N-Nitrosodi-n-propylamine	1100 U	1100	310	3	12/20/19 17:27	12/12/19	
N-Nitrosodiphenylamine	1100 U	1100	760	3	12/20/19 17:27	12/12/19	
Naphthalene	1100 U	1100	300	3	12/20/19 17:27	12/12/19	
Nitrobenzene	1100 U	1100	300	3	12/20/19 17:27	12/12/19	
Pentachlorophenol (PCP)	5900 U	5900	380	3	12/20/19 17:27	12/12/19	
Phenanthrene	**6700**	1100	340	3	12/20/19 17:27	12/12/19	
Phenol	1100 U	1100	270	3	12/20/19 17:27	12/12/19	
Pyrene	**11000**	1100	450	3	12/20/19 17:27	12/12/19	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
005737-13-3	Cyclopenta(def)phenanthrenone	10.17	1700	JN
	unknown	10.32	1200	J
000084-54-8	9,10-Anthracenedione, 2-methyl-	10.41	1700	JN
000192-97-2	Benzo[e]pyrene	14.49	1400	JN
000198-55-0	Perylene	14.88	12000	JN
000205-99-2	Benz[e]acephenanthrylene	15.15	2400	JN
	unknown hydrocarbon	16.36	3000	J
	unknown	16.40	1200	J
	unknown	16.91	2500	J
000215-58-7	Benzo[b]triphenylene	17.33	1400	JN
000083-48-7	Stigmasterol	17.41	2100	JN
	unknown	17.73	1500	J
000083-46-5	.beta.-Sitosterol	17.82	1800	JN

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 13:06
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SS-1	**Units:**	ug/Kg
Lab Code:	R1911946-008	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	18.29	2000	J
	unknown	18.54	1400	J
	unknown	18.66	3200	J
	unknown	3.41	4200	J
002531-84-2	Phenanthrene, 2-methyl-	9.52	1200	JN
000613-12-7	Anthracene, 2-methyl-	9.55	2400	JN
000084-65-1	9,10-Anthracenedione	9.84	3700	JN

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	74	10 - 109	12/20/19 17:27	
2-Fluorobiphenyl	45	10 - 102	12/20/19 17:27	
2-Fluorophenol	40	10 - 88	12/20/19 17:27	
Nitrobenzene-d5	42	10 - 95	12/20/19 17:27	
Phenol-d6	42	10 - 145	12/20/19 17:27	
Terphenyl-d14	89	10 - 106	12/20/19 17:27	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 13:06
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SS-2	**Units:**	ug/Kg
Lab Code:	R1911946-009	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	1900 U	1900	470	3	12/20/19 17:55	12/12/19	
2,3,4,6-Tetrachlorophenol	1900 U	1900	410	3	12/20/19 17:55	12/12/19	
2,4,5-Trichlorophenol	1900 U	1900	1700	3	12/20/19 17:55	12/12/19	
2,4,6-Trichlorophenol	1900 U	1900	350	3	12/20/19 17:55	12/12/19	
2,4-Dichlorophenol	1900 U	1900	420	3	12/20/19 17:55	12/12/19	
2,4-Dimethylphenol	1900 U	1900	430	3	12/20/19 17:55	12/12/19	
2,4-Dinitrophenol	10000 U	10000	710	3	12/20/19 17:55	12/12/19	
2,4-Dinitrotoluene	1900 U	1900	770	3	12/20/19 17:55	12/12/19	
2,6-Dinitrotoluene	1900 U	1900	570	3	12/20/19 17:55	12/12/19	
2-Chloronaphthalene	1900 U	1900	470	3	12/20/19 17:55	12/12/19	
2-Chlorophenol	1900 U	1900	480	3	12/20/19 17:55	12/12/19	
2-Methylnaphthalene	1900 U	1900	430	3	12/20/19 17:55	12/12/19	
2-Methylphenol	1900 U	1900	420	3	12/20/19 17:55	12/12/19	
2-Nitroaniline	10000 U	10000	580	3	12/20/19 17:55	12/12/19	
2-Nitrophenol	1900 U	1900	570	3	12/20/19 17:55	12/12/19	
3,3'-Dichlorobenzidine	1900 U	1900	410	3	12/20/19 17:55	12/12/19	
3- and 4-Methylphenol Coelution	1900 U	1900	380	3	12/20/19 17:55	12/12/19	
3-Nitroaniline	10000 U	10000	420	3	12/20/19 17:55	12/12/19	
4,6-Dinitro-2-methylphenol	10000 U	10000	830	3	12/20/19 17:55	12/12/19	
4-Bromophenyl Phenyl Ether	1900 U	1900	710	3	12/20/19 17:55	12/12/19	
4-Chloro-3-methylphenol	1900 U	1900	430	3	12/20/19 17:55	12/12/19	
4-Chloroaniline	1900 U	1900	470	3	12/20/19 17:55	12/12/19	
4-Chlorophenyl Phenyl Ether	1900 U	1900	470	3	12/20/19 17:55	12/12/19	
4-Nitroaniline	10000 U	10000	420	3	12/20/19 17:55	12/12/19	
4-Nitrophenol	10000 U	10000	650	3	12/20/19 17:55	12/12/19	
Acenaphthene	1900 U	1900	440	3	12/20/19 17:55	12/12/19	
Acenaphthylene	1900 U	1900	520	3	12/20/19 17:55	12/12/19	
Acetophenone	1900 U	1900	450	3	12/20/19 17:55	12/12/19	
Anthracene	**1100 J**	1900	550	3	12/20/19 17:55	12/12/19	
Atrazine	1900 U	1900	770	3	12/20/19 17:55	12/12/19	
Benz(a)anthracene	**6300**	1900	580	3	12/20/19 17:55	12/12/19	
Benzaldehyde	10000 U	10000	390	3	12/20/19 17:55	12/12/19	
Benzo(a)pyrene	**8200**	1900	710	3	12/20/19 17:55	12/12/19	
Benzo(b)fluoranthene	**13000**	1900	650	3	12/20/19 17:55	12/12/19	
Benzo(g,h,i)perylene	**6200**	1900	520	3	12/20/19 17:55	12/12/19	
Benzo(k)fluoranthene	**4500**	1900	710	3	12/20/19 17:55	12/12/19	
Biphenyl	1900 U	1900	480	3	12/20/19 17:55	12/12/19	
2,2'-Oxybis(1-chloropropane)	1900 U	1900	770	3	12/20/19 17:55	12/12/19	
Bis(2-chloroethoxy)methane	1900 U	1900	520	3	12/20/19 17:55	12/12/19	
Bis(2-chloroethyl) Ether	1900 U	1900	510	3	12/20/19 17:55	12/12/19	
Bis(2-ethylhexyl) Phthalate	3000 U	3000	520	3	12/20/19 17:55	12/12/19	
Butyl Benzyl Phthalate	1900 U	1900	490	3	12/20/19 17:55	12/12/19	
Caprolactam	1900 U	1900	510	3	12/20/19 17:55	12/12/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 13:06
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SS-2	**Units:**	ug/Kg
Lab Code:	R1911946-009	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	**2000**	1900	570	3	12/20/19 17:55	12/12/19	
Chrysene	**9500**	1900	710	3	12/20/19 17:55	12/12/19	
Di-n-butyl Phthalate	1900 U	1900	600	3	12/20/19 17:55	12/12/19	
Di-n-octyl Phthalate	1900 U	1900	580	3	12/20/19 17:55	12/12/19	
Dibenz(a,h)anthracene	**1400 J**	1900	580	3	12/20/19 17:55	12/12/19	
Dibenzofuran	1900 U	1900	390	3	12/20/19 17:55	12/12/19	
Diethyl Phthalate	1900 U	1900	420	3	12/20/19 17:55	12/12/19	
Dimethyl Phthalate	1900 U	1900	440	3	12/20/19 17:55	12/12/19	
Fluoranthene	**13000**	1900	710	3	12/20/19 17:55	12/12/19	
Fluorene	1900 U	1900	450	3	12/20/19 17:55	12/12/19	
Hexachlorobenzene	1900 U	1900	600	3	12/20/19 17:55	12/12/19	
Hexachlorobutadiene	1900 U	1900	480	3	12/20/19 17:55	12/12/19	
Hexachlorocyclopentadiene	1900 U	1900	430	3	12/20/19 17:55	12/12/19	
Hexachloroethane	1900 U	1900	510	3	12/20/19 17:55	12/12/19	
Indeno(1,2,3-cd)pyrene	**6800**	1900	650	3	12/20/19 17:55	12/12/19	
Isophorone	1900 U	1900	540	3	12/20/19 17:55	12/12/19	
N-Nitrosodi-n-propylamine	1900 U	1900	520	3	12/20/19 17:55	12/12/19	
N-Nitrosodiphenylamine	1900 U	1900	1300	3	12/20/19 17:55	12/12/19	
Naphthalene	1900 U	1900	510	3	12/20/19 17:55	12/12/19	
Nitrobenzene	1900 U	1900	510	3	12/20/19 17:55	12/12/19	
Pentachlorophenol (PCP)	10000 U	10000	650	3	12/20/19 17:55	12/12/19	
Phenanthrene	**7600**	1900	570	3	12/20/19 17:55	12/12/19	
Phenol	1900 U	1900	470	3	12/20/19 17:55	12/12/19	
Pyrene	**13000**	1900	770	3	12/20/19 17:55	12/12/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	68	10 - 109	12/20/19 17:55	
2-Fluorobiphenyl	32	10 - 102	12/20/19 17:55	
2-Fluorophenol	39	10 - 88	12/20/19 17:55	
Nitrobenzene-d5	38	10 - 95	12/20/19 17:55	
Phenol-d6	40	10 - 145	12/20/19 17:55	
Terphenyl-d14	59	10 - 106	12/20/19 17:55	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
005737-13-3	Cyclopenta(def)phenanthrenone	10.17	1100	JN
001210-12-4	9-Anthracenecarbonitrile	10.31	1700	JN
	unknown	10.40	1400	J
	unknown	10.57	1100	J
000198-55-0	Perylene	14.85	10000	JN
	unknown hydrocarbon	16.36	1500	J

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 13:06
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SS-2	**Units:**	ug/Kg
Lab Code:	R1911946-009	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	16.40	1000	J
	unknown	16.90	1900	J
000215-58-7	Benzo[b]triphenylene	17.26	1300	JN
000213-46-7	1,2:7,8-Dibenzophenanthrene	17.32	1100	JN
000083-47-6	.gamma.-Sitosterol	17.82	4200	JN
	unknown	18.18	1500	J
	unknown	18.78	1700	J
	unknown	3.41	12000	J
	unknown	8.71	1200	J
000613-12-7	Anthracene, 2-methyl-	9.52	1400	JN
000832-69-9	Phenanthrene, 1-methyl-	9.54	1700	JN
000057-10-3	n-Hexadecanoic acid	9.58	1800	JN
	unknown	9.63	1800	J
000084-65-1	9,10-Anthracenedione	9.84	3100	JN

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:06
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SS-3	**Units:**	ug/Kg
Lab Code:	R1911946-010	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	2500	U	2500	590	5	12/20/19 18:24	12/12/19	
2,3,4,6-Tetrachlorophenol	2500	U	2500	520	5	12/20/19 18:24	12/12/19	
2,4,5-Trichlorophenol	2500	U	2500	2100	5	12/20/19 18:24	12/12/19	
2,4,6-Trichlorophenol	2500	U	2500	440	5	12/20/19 18:24	12/12/19	
2,4-Dichlorophenol	2500	U	2500	530	5	12/20/19 18:24	12/12/19	
2,4-Dimethylphenol	2500	U	2500	540	5	12/20/19 18:24	12/12/19	
2,4-Dinitrophenol	13000	U	13000	900	5	12/20/19 18:24	12/12/19	
2,4-Dinitrotoluene	2500	U	2500	980	5	12/20/19 18:24	12/12/19	
2,6-Dinitrotoluene	2500	U	2500	720	5	12/20/19 18:24	12/12/19	
2-Chloronaphthalene	2500	U	2500	590	5	12/20/19 18:24	12/12/19	
2-Chlorophenol	2500	U	2500	610	5	12/20/19 18:24	12/12/19	
2-Methylnaphthalene	2500	U	2500	540	5	12/20/19 18:24	12/12/19	
2-Methylphenol	2500	U	2500	540	5	12/20/19 18:24	12/12/19	
2-Nitroaniline	13000	U	13000	740	5	12/20/19 18:24	12/12/19	
2-Nitrophenol	2500	U	2500	710	5	12/20/19 18:24	12/12/19	
3,3'-Dichlorobenzidine	2500	U	2500	520	5	12/20/19 18:24	12/12/19	
3- and 4-Methylphenol Coelution	2500	U	2500	480	5	12/20/19 18:24	12/12/19	
3-Nitroaniline	13000	U	13000	530	5	12/20/19 18:24	12/12/19	
4,6-Dinitro-2-methylphenol	13000	U	13000	1100	5	12/20/19 18:24	12/12/19	
4-Bromophenyl Phenyl Ether	2500	U	2500	900	5	12/20/19 18:24	12/12/19	
4-Chloro-3-methylphenol	2500	U	2500	540	5	12/20/19 18:24	12/12/19	
4-Chloroaniline	2500	U	2500	590	5	12/20/19 18:24	12/12/19	
4-Chlorophenyl Phenyl Ether	2500	U	2500	590	5	12/20/19 18:24	12/12/19	
4-Nitroaniline	13000	U	13000	530	5	12/20/19 18:24	12/12/19	
4-Nitrophenol	13000	U	13000	830	5	12/20/19 18:24	12/12/19	
Acenaphthene	**1800**	**J**	2500	560	5	12/20/19 18:24	12/12/19	
Acenaphthylene	**910**	**J**	2500	650	5	12/20/19 18:24	12/12/19	
Acetophenone	2500	U	2500	560	5	12/20/19 18:24	12/12/19	
Anthracene	**6500**		2500	690	5	12/20/19 18:24	12/12/19	
Atrazine	2500	U	2500	980	5	12/20/19 18:24	12/12/19	
Benz(a)anthracene	**52000**	**D**	12000	3700	25	12/26/19 15:40	12/12/19	
Benzaldehyde	13000	U	13000	490	5	12/20/19 18:24	12/12/19	
Benzo(a)pyrene	**70000**	**D**	12000	4500	25	12/26/19 15:40	12/12/19	
Benzo(b)fluoranthene	**110000**	**D**	12000	4200	25	12/26/19 15:40	12/12/19	
Benzo(g,h,i)perylene	**55000**	**D**	12000	3300	25	12/26/19 15:40	12/12/19	
Benzo(k)fluoranthene	**19000**		2500	900	5	12/20/19 18:24	12/12/19	
Biphenyl	2500	U	2500	610	5	12/20/19 18:24	12/12/19	
2,2'-Oxybis(1-chloropropane)	2500	U	2500	980	5	12/20/19 18:24	12/12/19	
Bis(2-chloroethoxy)methane	2500	U	2500	660	5	12/20/19 18:24	12/12/19	
Bis(2-chloroethyl) Ether	2500	U	2500	650	5	12/20/19 18:24	12/12/19	
Bis(2-ethylhexyl) Phthalate	**910**	**J**	3700	660	5	12/20/19 18:24	12/12/19	
Butyl Benzyl Phthalate	2500	U	2500	620	5	12/20/19 18:24	12/12/19	
Caprolactam	2500	U	2500	650	5	12/20/19 18:24	12/12/19	

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:06
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SS-3	**Units:**	ug/Kg
Lab Code:	R1911946-010	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	**9900**		2500	710	5	12/20/19 18:24	12/12/19	
Chrysene	**73000**	**D**	12000	4500	25	12/26/19 15:40	12/12/19	
Di-n-butyl Phthalate	2500	U	2500	750	5	12/20/19 18:24	12/12/19	
Di-n-octyl Phthalate	2500	U	2500	730	5	12/20/19 18:24	12/12/19	
Dibenz(a,h)anthracene	**11000**		2500	740	5	12/20/19 18:24	12/12/19	
Dibenzofuran	**1200**	**J**	2500	490	5	12/20/19 18:24	12/12/19	
Diethyl Phthalate	2500	U	2500	530	5	12/20/19 18:24	12/12/19	
Dimethyl Phthalate	2500	U	2500	560	5	12/20/19 18:24	12/12/19	
Fluoranthene	**87000**	**D**	12000	4500	25	12/26/19 15:40	12/12/19	
Fluorene	**2600**		2500	570	5	12/20/19 18:24	12/12/19	
Hexachlorobenzene	2500	U	2500	750	5	12/20/19 18:24	12/12/19	
Hexachlorobutadiene	2500	U	2500	600	5	12/20/19 18:24	12/12/19	
Hexachlorocyclopentadiene	2500	U	2500	540	5	12/20/19 18:24	12/12/19	
Hexachloroethane	2500	U	2500	640	5	12/20/19 18:24	12/12/19	
Indeno(1,2,3-cd)pyrene	**64000**	**D**	12000	4200	25	12/26/19 15:40	12/12/19	
Isophorone	2500	U	2500	680	5	12/20/19 18:24	12/12/19	
N-Nitrosodi-n-propylamine	2500	U	2500	660	5	12/20/19 18:24	12/12/19	
N-Nitrosodiphenylamine	2500	U	2500	1700	5	12/20/19 18:24	12/12/19	
Naphthalene	2500	U	2500	640	5	12/20/19 18:24	12/12/19	
Nitrobenzene	2500	U	2500	640	5	12/20/19 18:24	12/12/19	
Pentachlorophenol (PCP)	13000	U	13000	830	5	12/20/19 18:24	12/12/19	
Phenanthrene	**24000**		2500	720	5	12/20/19 18:24	12/12/19	
Phenol	2500	U	2500	590	5	12/20/19 18:24	12/12/19	
Pyrene	**89000**	**D**	12000	4900	25	12/26/19 15:40	12/12/19	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
003674-66-6	Phenanthrene, 2,5-dimethyl-	10.09	5900	JN
005737-13-3	Cyclopenta(def)phenanthrenone	10.20	7900	JN
	unknown	10.43	9700	J
000207-93-2	Dinaphtho[1,2-b:1',2'-d]furan	14.50	5100	JN
000192-97-2	Benzo[e]pyrene	14.55	15000	JN
000198-55-0	Perylene	14.94	100000	JN
	unknown	15.21	26000	J
	unknown	16.07	11000	J
	unknown hydrocarbon	16.37	7200	J
	unknown	16.75	6300	J
000191-26-4	Dibenzo[def,mno]chrysene	16.94	39000	JN
000215-58-7	Benzo[b]triphenylene	17.32	9800	JN
000213-46-7	1,2:7,8-Dibenzophenanthrene	17.38	15000	JN

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:06
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SS-3	**Units:**	ug/Kg
Lab Code:	R1911946-010	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	17.84	10000	J
	unknown	3.41	8500	J
002531-84-2	Phenanthrene, 2-methyl-	9.53	7500	JN
000832-69-9	Phenanthrene, 1-methyl-	9.55	10000	JN
000203-64-5	4H-Cyclopenta[def]phenanthrene	9.64	15000	JN
000612-94-2	Naphthalene, 2-phenyl-	9.82	6600	JN
000084-65-1	9,10-Anthracenedione	9.86	22000	JN

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	62	10 - 109	12/20/19 18:24	
2-Fluorobiphenyl	33	10 - 102	12/20/19 18:24	
2-Fluorophenol	28	10 - 88	12/20/19 18:24	
Nitrobenzene-d5	27	10 - 95	12/20/19 18:24	
Phenol-d6	32	10 - 145	12/20/19 18:24	
Terphenyl-d14	62	10 - 106	12/20/19 18:24	

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:17
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SS-4	**Units:**	ug/Kg
Lab Code:	R1911946-011	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	2300 U	2300	560	5	12/20/19 18:52	12/12/19	
2,3,4,6-Tetrachlorophenol	2300 U	2300	490	5	12/20/19 18:52	12/12/19	
2,4,5-Trichlorophenol	2300 U	2300	2000	5	12/20/19 18:52	12/12/19	
2,4,6-Trichlorophenol	2300 U	2300	420	5	12/20/19 18:52	12/12/19	
2,4-Dichlorophenol	2300 U	2300	500	5	12/20/19 18:52	12/12/19	
2,4-Dimethylphenol	2300 U	2300	510	5	12/20/19 18:52	12/12/19	
2,4-Dinitrophenol	12000 U	12000	850	5	12/20/19 18:52	12/12/19	
2,4-Dinitrotoluene	2300 U	2300	920	5	12/20/19 18:52	12/12/19	
2,6-Dinitrotoluene	2300 U	2300	680	5	12/20/19 18:52	12/12/19	
2-Chloronaphthalene	2300 U	2300	560	5	12/20/19 18:52	12/12/19	
2-Chlorophenol	2300 U	2300	580	5	12/20/19 18:52	12/12/19	
2-Methylnaphthalene	2300 U	2300	510	5	12/20/19 18:52	12/12/19	
2-Methylphenol	2300 U	2300	510	5	12/20/19 18:52	12/12/19	
2-Nitroaniline	12000 U	12000	700	5	12/20/19 18:52	12/12/19	
2-Nitrophenol	2300 U	2300	680	5	12/20/19 18:52	12/12/19	
3,3'-Dichlorobenzidine	2300 U	2300	490	5	12/20/19 18:52	12/12/19	
3- and 4-Methylphenol Coelution	2300 U	2300	450	5	12/20/19 18:52	12/12/19	
3-Nitroaniline	12000 U	12000	500	5	12/20/19 18:52	12/12/19	
4,6-Dinitro-2-methylphenol	12000 U	12000	990	5	12/20/19 18:52	12/12/19	
4-Bromophenyl Phenyl Ether	2300 U	2300	850	5	12/20/19 18:52	12/12/19	
4-Chloro-3-methylphenol	2300 U	2300	510	5	12/20/19 18:52	12/12/19	
4-Chloroaniline	2300 U	2300	560	5	12/20/19 18:52	12/12/19	
4-Chlorophenyl Phenyl Ether	2300 U	2300	560	5	12/20/19 18:52	12/12/19	
4-Nitroaniline	12000 U	12000	500	5	12/20/19 18:52	12/12/19	
4-Nitrophenol	12000 U	12000	780	5	12/20/19 18:52	12/12/19	
Acenaphthene	**1400 J**	2300	530	5	12/20/19 18:52	12/12/19	
Acenaphthylene	2300 U	2300	620	5	12/20/19 18:52	12/12/19	
Acetophenone	2300 U	2300	540	5	12/20/19 18:52	12/12/19	
Anthracene	**5700**	2300	660	5	12/20/19 18:52	12/12/19	
Atrazine	2300 U	2300	920	5	12/20/19 18:52	12/12/19	
Benz(a)anthracene	**36000 D**	9300	2800	20	12/26/19 13:07	12/12/19	
Benzaldehyde	12000 U	12000	460	5	12/20/19 18:52	12/12/19	
Benzo(a)pyrene	**45000 D**	9300	3400	20	12/26/19 13:07	12/12/19	
Benzo(b)fluoranthene	**69000 D**	9300	3200	20	12/26/19 13:07	12/12/19	
Benzo(g,h,i)perylene	**36000 D**	9300	2500	20	12/26/19 13:07	12/12/19	
Benzo(k)fluoranthene	**17000**	2300	850	5	12/20/19 18:52	12/12/19	
Biphenyl	2300 U	2300	580	5	12/20/19 18:52	12/12/19	
2,2'-Oxybis(1-chloropropane)	2300 U	2300	920	5	12/20/19 18:52	12/12/19	
Bis(2-chloroethoxy)methane	2300 U	2300	630	5	12/20/19 18:52	12/12/19	
Bis(2-chloroethyl) Ether	2300 U	2300	610	5	12/20/19 18:52	12/12/19	
Bis(2-ethylhexyl) Phthalate	**690 J**	3500	630	5	12/20/19 18:52	12/12/19	
Butyl Benzyl Phthalate	2300 U	2300	580	5	12/20/19 18:52	12/12/19	
Caprolactam	2300 U	2300	610	5	12/20/19 18:52	12/12/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:17
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SS-4	**Units:**	ug/Kg
Lab Code:	R1911946-011	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	**8000**		2300	680	5	12/20/19 18:52	12/12/19	
Chrysene	**48000**	**D**	9300	3400	20	12/26/19 13:07	12/12/19	
Di-n-butyl Phthalate	2300	U	2300	710	5	12/20/19 18:52	12/12/19	
Di-n-octyl Phthalate	2300	U	2300	690	5	12/20/19 18:52	12/12/19	
Dibenz(a,h)anthracene	**7100**		2300	700	5	12/20/19 18:52	12/12/19	
Dibenzofuran	**900**	**J**	2300	460	5	12/20/19 18:52	12/12/19	
Diethyl Phthalate	2300	U	2300	500	5	12/20/19 18:52	12/12/19	
Dimethyl Phthalate	2300	U	2300	530	5	12/20/19 18:52	12/12/19	
Fluoranthene	**63000**	**D**	9300	3400	20	12/26/19 13:07	12/12/19	
Fluorene	**2100**	**J**	2300	540	5	12/20/19 18:52	12/12/19	
Hexachlorobenzene	2300	U	2300	710	5	12/20/19 18:52	12/12/19	
Hexachlorobutadiene	2300	U	2300	570	5	12/20/19 18:52	12/12/19	
Hexachlorocyclopentadiene	2300	U	2300	510	5	12/20/19 18:52	12/12/19	
Hexachloroethane	2300	U	2300	610	5	12/20/19 18:52	12/12/19	
Indeno(1,2,3-cd)pyrene	**42000**	**D**	9300	3200	20	12/26/19 13:07	12/12/19	
Isophorone	2300	U	2300	640	5	12/20/19 18:52	12/12/19	
N-Nitrosodi-n-propylamine	2300	U	2300	630	5	12/20/19 18:52	12/12/19	
N-Nitrosodiphenylamine	2300	U	2300	1600	5	12/20/19 18:52	12/12/19	
Naphthalene	2300	U	2300	610	5	12/20/19 18:52	12/12/19	
Nitrobenzene	2300	U	2300	610	5	12/20/19 18:52	12/12/19	
Pentachlorophenol (PCP)	12000	U	12000	780	5	12/20/19 18:52	12/12/19	
Phenanthrene	**19000**		2300	680	5	12/20/19 18:52	12/12/19	
Phenol	2300	U	2300	560	5	12/20/19 18:52	12/12/19	
Pyrene	**63000**	**D**	9300	3700	20	12/26/19 13:07	12/12/19	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
003674-66-6	Phenanthrene, 2,5-dimethyl-	10.09	2800	JN
005737-13-3	Cyclopenta(def)phenanthrenone	10.19	5000	JN
001210-12-4	9-Anthracenecarbonitrile	10.34	3500	JN
	unknown	10.43	5500	J
000192-97-2	Benzo[e]pyrene	14.53	7900	JN
000198-55-0	Perylene	14.91	49000	JN
	unknown	15.20	13000	J
	unknown	16.05	4500	J
000193-43-1	Indeno[1,2,3-cd]fluoranthene	16.94	18000	JN
000213-46-7	1,2:7,8-Dibenzophenanthrene	17.30	5000	JN
000215-58-7	Benzo[b]triphenylene	17.36	6200	JN
	unknown	3.40	4700	J
000132-65-0	Dibenzothiophene	8.92	2200	JN

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:17
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SS-4	**Units:**	ug/Kg
Lab Code:	R1911946-011	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
002531-84-2	Phenanthrene, 2-methyl-	9.53	4200	JN
000832-69-9	Phenanthrene, 1-methyl-	9.55	5700	JN
000057-10-3	n-Hexadecanoic acid	9.59	3000	JN
	unknown	9.64	8900	J
	unknown	9.66	3000	J
000612-94-2	Naphthalene, 2-phenyl-	9.82	4000	JN
000084-65-1	9,10-Anthracenedione	9.86	14000	JN

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	59	10 - 109	12/20/19 18:52	
2-Fluorobiphenyl	44	10 - 102	12/20/19 18:52	
2-Fluorophenol	36	10 - 88	12/20/19 18:52	
Nitrobenzene-d5	39	10 - 95	12/20/19 18:52	
Phenol-d6	39	10 - 145	12/20/19 18:52	
Terphenyl-d14	61	10 - 106	12/20/19 18:52	

Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:09
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB6 3-4	**Units:**	ug/Kg
Lab Code:	R1911946-001	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	11 U	11	5.3	5	12/28/19 02:59	12/11/19	
4,4'-DDE	**11 J**	11	5.3	5	12/28/19 02:59	12/11/19	
4,4'-DDT	11 U	11	5.3	5	12/28/19 02:59	12/11/19	
Aldrin	11 U	11	5.3	5	12/28/19 02:59	12/11/19	
Dieldrin	11 U	11	5.3	5	12/28/19 02:59	12/11/19	
Endosulfan I	11 U	11	5.3	5	12/28/19 02:59	12/11/19	
Endosulfan II	11 U	11	5.3	5	12/28/19 02:59	12/11/19	
Endosulfan Sulfate	11 U	11	5.3	5	12/28/19 02:59	12/11/19	
Endrin	11 U	11	5.3	5	12/28/19 02:59	12/11/19	
Endrin Aldehyde	11 U	11	5.3	5	12/28/19 02:59	12/11/19	
Endrin Ketone	11 U	11	5.3	5	12/28/19 02:59	12/11/19	
Heptachlor	11 U	11	5.3	5	12/28/19 02:59	12/11/19	
Heptachlor Epoxide	**14**	11	5.3	5	12/28/19 02:59	12/11/19	
Methoxychlor	11 U	11	5.3	5	12/28/19 02:59	12/11/19	
Toxaphene	210 U	210	120	5	12/28/19 02:59	12/11/19	
alpha-BHC	11 U	11	5.3	5	12/28/19 02:59	12/11/19	
alpha-Chlordane	11 U	11	5.3	5	12/28/19 02:59	12/11/19	
beta-BHC	11 U	11	5.3	5	12/28/19 02:59	12/11/19	
delta-BHC	11 U	11	5.3	5	12/28/19 02:59	12/11/19	
gamma-BHC (Lindane)	11 U	11	5.3	5	12/28/19 02:59	12/11/19	
gamma-Chlordane	11 U	11	5.3	5	12/28/19 02:59	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	71	10 - 145	12/28/19 02:59	
Tetrachloro-m-xylene	63	10 - 123	12/28/19 02:59	

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:09
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB 6-8	**Units:**	ug/Kg
Lab Code:	R1911946-002	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	10 U	10	5.0	5	12/31/19 21:33	12/11/19	
4,4'-DDE	10 U	10	5.0	5	12/31/19 21:33	12/11/19	
4,4'-DDT	10 U	10	5.0	5	12/31/19 21:33	12/11/19	
Aldrin	10 U	10	5.0	5	12/31/19 21:33	12/11/19	
Dieldrin	10 U	10	5.0	5	12/31/19 21:33	12/11/19	
Endosulfan I	10 U	10	5.0	5	12/31/19 21:33	12/11/19	
Endosulfan II	10 U	10	5.0	5	12/31/19 21:33	12/11/19	
Endosulfan Sulfate	10 U	10	5.0	5	12/31/19 21:33	12/11/19	
Endrin	10 U	10	5.0	5	12/31/19 21:33	12/11/19	
Endrin Aldehyde	10 U	10	5.0	5	12/31/19 21:33	12/11/19	
Endrin Ketone	10 U	10	5.0	5	12/31/19 21:33	12/11/19	
Heptachlor	10 U	10	5.0	5	12/31/19 21:33	12/11/19	
Heptachlor Epoxide	10 U	10	5.0	5	12/31/19 21:33	12/11/19	
Methoxychlor	10 U	10	5.0	5	12/31/19 21:33	12/11/19	
Toxaphene	200 U	200	120	5	12/31/19 21:33	12/11/19	
alpha-BHC	10 U	10	5.0	5	12/31/19 21:33	12/11/19	
alpha-Chlordane	10 U	10	5.0	5	12/31/19 21:33	12/11/19	
beta-BHC	10 U	10	5.0	5	12/31/19 21:33	12/11/19	
delta-BHC	10 U	10	5.0	5	12/31/19 21:33	12/11/19	
gamma-BHC (Lindane)	10 U	10	5.0	5	12/31/19 21:33	12/11/19	
gamma-Chlordane	10 U	10	5.0	5	12/31/19 21:33	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	101	10 - 145	12/31/19 21:33	
Tetrachloro-m-xylene	82	10 - 123	12/31/19 21:33	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:45
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB7 4-5	**Units:**	ug/Kg
Lab Code:	R1911946-003	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	11 U	11	5.6	5	12/31/19 21:53	12/11/19	
4,4'-DDE	**53**	11	5.6	5	12/31/19 21:53	12/11/19	
4,4'-DDT	11 U	11	5.6	5	12/31/19 21:53	12/11/19	
Aldrin	11 U	11	5.6	5	12/31/19 21:53	12/11/19	
Dieldrin	**12**	11	5.6	5	12/31/19 21:53	12/11/19	
Endosulfan I	11 U	11	5.6	5	12/31/19 21:53	12/11/19	
Endosulfan II	11 U	11	5.6	5	12/31/19 21:53	12/11/19	
Endosulfan Sulfate	11 U	11	5.6	5	12/31/19 21:53	12/11/19	
Endrin	**6.0 JP**	11	5.6	5	12/31/19 21:53	12/11/19	
Endrin Aldehyde	11 U	11	5.6	5	12/31/19 21:53	12/11/19	
Endrin Ketone	11 U	11	5.6	5	12/31/19 21:53	12/11/19	
Heptachlor	**7.2 JP**	11	5.6	5	12/31/19 21:53	12/11/19	
Heptachlor Epoxide	11 U	11	5.6	5	12/31/19 21:53	12/11/19	
Methoxychlor	**15**	11	5.6	5	12/31/19 21:53	12/11/19	
Toxaphene	220 U	220	130	5	12/31/19 21:53	12/11/19	
alpha-BHC	11 U	11	5.6	5	12/31/19 21:53	12/11/19	
alpha-Chlordane	11 U	11	5.6	5	12/31/19 21:53	12/11/19	
beta-BHC	11 U	11	5.6	5	12/31/19 21:53	12/11/19	
delta-BHC	11 U	11	5.6	5	12/31/19 21:53	12/11/19	
gamma-BHC (Lindane)	11 U	11	5.6	5	12/31/19 21:53	12/11/19	
gamma-Chlordane	11 U	11	5.6	5	12/31/19 21:53	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	98	10 - 145	12/31/19 21:53	
Tetrachloro-m-xylene	70	10 - 123	12/31/19 21:53	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:45
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB7 6-8	**Units:**	ug/Kg
Lab Code:	R1911946-004	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	13 U	13	6.5	5	12/31/19 22:12	12/11/19	
4,4'-DDE	13 U	13	6.5	5	12/31/19 22:12	12/11/19	
4,4'-DDT	13 U	13	6.5	5	12/31/19 22:12	12/11/19	
Aldrin	13 U	13	6.5	5	12/31/19 22:12	12/11/19	
Dieldrin	13 U	13	6.5	5	12/31/19 22:12	12/11/19	
Endosulfan I	13 U	13	6.5	5	12/31/19 22:12	12/11/19	
Endosulfan II	13 U	13	6.5	5	12/31/19 22:12	12/11/19	
Endosulfan Sulfate	13 U	13	6.5	5	12/31/19 22:12	12/11/19	
Endrin	13 U	13	6.5	5	12/31/19 22:12	12/11/19	
Endrin Aldehyde	**8.2 J**	13	6.5	5	12/31/19 22:12	12/11/19	
Endrin Ketone	13 U	13	6.5	5	12/31/19 22:12	12/11/19	
Heptachlor	13 U	13	6.5	5	12/31/19 22:12	12/11/19	
Heptachlor Epoxide	13 U	13	6.5	5	12/31/19 22:12	12/11/19	
Methoxychlor	13 U	13	6.5	5	12/31/19 22:12	12/11/19	
Toxaphene	250 U	250	150	5	12/31/19 22:12	12/11/19	
alpha-BHC	13 U	13	6.5	5	12/31/19 22:12	12/11/19	
alpha-Chlordane	13 U	13	6.5	5	12/31/19 22:12	12/11/19	
beta-BHC	**10 J**	13	6.5	5	12/31/19 22:12	12/11/19	
delta-BHC	**8.4 JP**	13	6.5	5	12/31/19 22:12	12/11/19	
gamma-BHC (Lindane)	13 U	13	6.5	5	12/31/19 22:12	12/11/19	
gamma-Chlordane	13 U	13	6.5	5	12/31/19 22:12	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	83	10 - 145	12/31/19 22:12	
Tetrachloro-m-xylene	71	10 - 123	12/31/19 22:12	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:45
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB7 10-12	**Units:**	ug/Kg
Lab Code:	R1911946-005	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	2.0 U	2.0	0.97	1	01/05/20 00:11	12/11/19	
4,4'-DDE	2.0 U	2.0	0.97	1	01/05/20 00:11	12/11/19	
4,4'-DDT	2.0 U	2.0	0.97	1	01/05/20 00:11	12/11/19	
Aldrin	2.0 U	2.0	0.97	1	01/05/20 00:11	12/11/19	
Dieldrin	2.0 U	2.0	0.97	1	01/05/20 00:11	12/11/19	
Endosulfan I	2.0 U	2.0	0.97	1	01/05/20 00:11	12/11/19	
Endosulfan II	2.0 U	2.0	0.97	1	01/05/20 00:11	12/11/19	
Endosulfan Sulfate	2.0 U	2.0	0.97	1	01/05/20 00:11	12/11/19	
Endrin	2.0 U	2.0	0.97	1	01/05/20 00:11	12/11/19	
Endrin Aldehyde	**0.97 J**	2.0	0.97	1	01/05/20 00:11	12/11/19	
Endrin Ketone	2.0 U	2.0	0.97	1	01/05/20 00:11	12/11/19	
Heptachlor	2.0 U	2.0	0.97	1	01/05/20 00:11	12/11/19	
Heptachlor Epoxide	2.0 U	2.0	0.97	1	01/05/20 00:11	12/11/19	
Methoxychlor	2.0 U	2.0	0.97	1	01/05/20 00:11	12/11/19	
Toxaphene	38 U	38	22	1	01/05/20 00:11	12/11/19	
alpha-BHC	2.0 U	2.0	0.97	1	01/05/20 00:11	12/11/19	
alpha-Chlordane	2.0 U	2.0	0.97	1	01/05/20 00:11	12/11/19	
beta-BHC	**2.0**	2.0	0.97	1	01/05/20 00:11	12/11/19	
delta-BHC	**1.6 J**	2.0	0.97	1	01/05/20 00:11	12/11/19	
gamma-BHC (Lindane)	2.0 U	2.0	0.97	1	01/05/20 00:11	12/11/19	
gamma-Chlordane	2.0 U	2.0	0.97	1	01/05/20 00:11	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	77	10 - 145	01/05/20 00:11	
Tetrachloro-m-xylene	47	10 - 123	01/05/20 00:11	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 09:45
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB1 1-2	**Units:**	ug/Kg
Lab Code:	R1911946-006	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	2.0 U	2.0	1.1	1	01/05/20 00:30	12/11/19	
4,4'-DDE	2.0 U	2.0	1.1	1	01/05/20 00:30	12/11/19	
4,4'-DDT	2.0 U	2.0	1.1	1	01/05/20 00:30	12/11/19	
Aldrin	2.0 U	2.0	1.1	1	01/05/20 00:30	12/11/19	
Dieldrin	2.0 U	2.0	1.1	1	01/05/20 00:30	12/11/19	
Endosulfan I	2.0 U	2.0	1.1	1	01/05/20 00:30	12/11/19	
Endosulfan II	2.0 U	2.0	1.1	1	01/05/20 00:30	12/11/19	
Endosulfan Sulfate	2.0 U	2.0	1.1	1	01/05/20 00:30	12/11/19	
Endrin	2.0 U	2.0	1.1	1	01/05/20 00:30	12/11/19	
Endrin Aldehyde	2.0 U	2.0	1.1	1	01/05/20 00:30	12/11/19	
Endrin Ketone	2.0 U	2.0	1.1	1	01/05/20 00:30	12/11/19	
Heptachlor	2.0 U	2.0	1.1	1	01/05/20 00:30	12/11/19	
Heptachlor Epoxide	2.0 U	2.0	1.1	1	01/05/20 00:30	12/11/19	
Methoxychlor	2.0 U	2.0	1.1	1	01/05/20 00:30	12/11/19	
Toxaphene	40 U	40	23	1	01/05/20 00:30	12/11/19	
alpha-BHC	2.0 U	2.0	1.1	1	01/05/20 00:30	12/11/19	
alpha-Chlordane	2.0 U	2.0	1.1	1	01/05/20 00:30	12/11/19	
beta-BHC	2.0 U	2.0	1.1	1	01/05/20 00:30	12/11/19	
delta-BHC	2.0 U	2.0	1.1	1	01/05/20 00:30	12/11/19	
gamma-BHC (Lindane)	2.0 U	2.0	1.1	1	01/05/20 00:30	12/11/19	
gamma-Chlordane	2.0 U	2.0	1.1	1	01/05/20 00:30	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	84	10 - 145	01/05/20 00:30	
Tetrachloro-m-xylene	66	10 - 123	01/05/20 00:30	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 10:11
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB1 17-18	**Units:**	ug/Kg
Lab Code:	R1911946-007	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	2.0 U	2.0	1.0	1	01/05/20 00:50	12/11/19	
4,4'-DDE	2.0 U	2.0	1.0	1	01/05/20 00:50	12/11/19	
4,4'-DDT	2.0 U	2.0	1.0	1	01/05/20 00:50	12/11/19	
Aldrin	2.0 U	2.0	1.0	1	01/05/20 00:50	12/11/19	
Dieldrin	2.0 U	2.0	1.0	1	01/05/20 00:50	12/11/19	
Endosulfan I	2.0 U	2.0	1.0	1	01/05/20 00:50	12/11/19	
Endosulfan II	2.0 U	2.0	1.0	1	01/05/20 00:50	12/11/19	
Endosulfan Sulfate	2.0 U	2.0	1.0	1	01/05/20 00:50	12/11/19	
Endrin	2.0 U	2.0	1.0	1	01/05/20 00:50	12/11/19	
Endrin Aldehyde	2.0 U	2.0	1.0	1	01/05/20 00:50	12/11/19	
Endrin Ketone	2.0 U	2.0	1.0	1	01/05/20 00:50	12/11/19	
Heptachlor	2.0 U	2.0	1.0	1	01/05/20 00:50	12/11/19	
Heptachlor Epoxide	2.0 U	2.0	1.0	1	01/05/20 00:50	12/11/19	
Methoxychlor	2.0 U	2.0	1.0	1	01/05/20 00:50	12/11/19	
Toxaphene	39 U	39	23	1	01/05/20 00:50	12/11/19	
alpha-BHC	2.0 U	2.0	1.0	1	01/05/20 00:50	12/11/19	
alpha-Chlordane	2.0 U	2.0	1.0	1	01/05/20 00:50	12/11/19	
beta-BHC	2.0 U	2.0	1.0	1	01/05/20 00:50	12/11/19	
delta-BHC	2.0 U	2.0	1.0	1	01/05/20 00:50	12/11/19	
gamma-BHC (Lindane)	2.0 U	2.0	1.0	1	01/05/20 00:50	12/11/19	
gamma-Chlordane	2.0 U	2.0	1.0	1	01/05/20 00:50	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	84	10 - 145	01/05/20 00:50	
Tetrachloro-m-xylene	47	10 - 123	01/05/20 00:50	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 13:06
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SS-1	**Units:**	ug/Kg
Lab Code:	R1911946-008	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	**11**	10	5.0	5	01/05/20 03:22	12/11/19	
4,4'-DDE	**19**	10	5.0	5	01/05/20 03:22	12/11/19	
4,4'-DDT	**28**	10	5.0	5	01/05/20 03:22	12/11/19	
Aldrin	10 U	10	5.0	5	01/05/20 03:22	12/11/19	
Dieldrin	10 U	10	5.0	5	01/05/20 03:22	12/11/19	
Endosulfan I	10 U	10	5.0	5	01/05/20 03:22	12/11/19	
Endosulfan II	**20**	10	5.0	5	01/05/20 03:22	12/11/19	
Endosulfan Sulfate	10 U	10	5.0	5	01/05/20 03:22	12/11/19	
Endrin	**21**	10	5.0	5	01/05/20 03:22	12/11/19	
Endrin Aldehyde	10 U	10	5.0	5	01/05/20 03:22	12/11/19	
Endrin Ketone	**30**	10	5.0	5	01/05/20 03:22	12/11/19	
Heptachlor	10 U	10	5.0	5	01/05/20 03:22	12/11/19	
Heptachlor Epoxide	10 U	10	5.0	5	01/05/20 03:22	12/11/19	
Methoxychlor	10 U	10	5.0	5	01/05/20 03:22	12/11/19	
Toxaphene	200 U	200	120	5	01/05/20 03:22	12/11/19	
alpha-BHC	10 U	10	5.0	5	01/05/20 03:22	12/11/19	
alpha-Chlordane	**5.4 J**	10	5.0	5	01/05/20 03:22	12/11/19	
beta-BHC	**14**	10	5.0	5	01/05/20 03:22	12/11/19	
delta-BHC	10 U	10	5.0	5	01/05/20 03:22	12/11/19	
gamma-BHC (Lindane)	10 U	10	5.0	5	01/05/20 03:22	12/11/19	
gamma-Chlordane	**10**	10	5.0	5	01/05/20 03:22	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	215 *	10 - 145	01/05/20 03:22	*
Tetrachloro-m-xylene	72	10 - 123	01/05/20 03:22	

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 13:06
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SS-2	**Units:**	ug/Kg
Lab Code:	R1911946-009	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	17 U	17	8.5	5	01/05/20 03:42	12/11/19	
4,4'-DDE	17 U	17	8.5	5	01/05/20 03:42	12/11/19	
4,4'-DDT	**24**	17	8.5	5	01/05/20 03:42	12/11/19	
Aldrin	17 U	17	8.5	5	01/05/20 03:42	12/11/19	
Dieldrin	17 U	17	8.5	5	01/05/20 03:42	12/11/19	
Endosulfan I	17 U	17	8.5	5	01/05/20 03:42	12/11/19	
Endosulfan II	17 U	17	8.5	5	01/05/20 03:42	12/11/19	
Endosulfan Sulfate	17 U	17	8.5	5	01/05/20 03:42	12/11/19	
Endrin	17 U	17	8.5	5	01/05/20 03:42	12/11/19	
Endrin Aldehyde	**28**	17	8.5	5	01/05/20 03:42	12/11/19	
Endrin Ketone	17 U	17	8.5	5	01/05/20 03:42	12/11/19	
Heptachlor	17 U	17	8.5	5	01/05/20 03:42	12/11/19	
Heptachlor Epoxide	17 U	17	8.5	5	01/05/20 03:42	12/11/19	
Methoxychlor	17 U	17	8.5	5	01/05/20 03:42	12/11/19	
Toxaphene	330 U	330	200	5	01/05/20 03:42	12/11/19	
alpha-BHC	17 U	17	8.5	5	01/05/20 03:42	12/11/19	
alpha-Chlordane	17 U	17	8.5	5	01/05/20 03:42	12/11/19	
beta-BHC	17 U	17	8.5	5	01/05/20 03:42	12/11/19	
delta-BHC	17 U	17	8.5	5	01/05/20 03:42	12/11/19	
gamma-BHC (Lindane)	17 U	17	8.5	5	01/05/20 03:42	12/11/19	
gamma-Chlordane	**8.8 J**	17	8.5	5	01/05/20 03:42	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	115	10 - 145	01/05/20 03:42	
Tetrachloro-m-xylene	62	10 - 123	01/05/20 03:42	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:06
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SS-3	**Units:**	ug/Kg
Lab Code:	R1911946-010	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	**14**	12	6.2	5	01/05/20 04:01	12/11/19	
4,4'-DDE	12 U	12	6.2	5	01/05/20 04:01	12/11/19	
4,4'-DDT	12 U	12	6.2	5	01/05/20 04:01	12/11/19	
Aldrin	12 U	12	6.2	5	01/05/20 04:01	12/11/19	
Dieldrin	12 U	12	6.2	5	01/05/20 04:01	12/11/19	
Endosulfan I	**17**	12	6.2	5	01/05/20 04:01	12/11/19	
Endosulfan II	12 U	12	6.2	5	01/05/20 04:01	12/11/19	
Endosulfan Sulfate	12 U	12	6.2	5	01/05/20 04:01	12/11/19	
Endrin	**58**	12	6.2	5	01/05/20 04:01	12/11/19	
Endrin Aldehyde	**55**	12	6.2	5	01/05/20 04:01	12/11/19	
Endrin Ketone	**100**	12	6.2	5	01/05/20 04:01	12/11/19	
Heptachlor	12 U	12	6.2	5	01/05/20 04:01	12/11/19	
Heptachlor Epoxide	**7.5 J**	12	6.2	5	01/05/20 04:01	12/11/19	
Methoxychlor	12 U	12	6.2	5	01/05/20 04:01	12/11/19	
Toxaphene	240 U	240	140	5	01/05/20 04:01	12/11/19	
alpha-BHC	12 U	12	6.2	5	01/05/20 04:01	12/11/19	
alpha-Chlordane	12 U	12	6.2	5	01/05/20 04:01	12/11/19	
beta-BHC	12 U	12	6.2	5	01/05/20 04:01	12/11/19	
delta-BHC	12 U	12	6.2	5	01/05/20 04:01	12/11/19	
gamma-BHC (Lindane)	12 U	12	6.2	5	01/05/20 04:01	12/11/19	
gamma-Chlordane	**21**	12	6.2	5	01/05/20 04:01	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	535 *	10 - 145	01/05/20 04:01	*
Tetrachloro-m-xylene	58	10 - 123	01/05/20 04:01	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:17
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SS-4	**Units:**	ug/Kg
Lab Code:	R1911946-011	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	**21**	12	6.1	5	01/05/20 04:20	12/11/19	
4,4'-DDE	12 U	12	6.1	5	01/05/20 04:20	12/11/19	
4,4'-DDT	12 U	12	6.1	5	01/05/20 04:20	12/11/19	
Aldrin	12 U	12	6.1	5	01/05/20 04:20	12/11/19	
Dieldrin	12 U	12	6.1	5	01/05/20 04:20	12/11/19	
Endosulfan I	**13**	12	6.1	5	01/05/20 04:20	12/11/19	
Endosulfan II	12 U	12	6.1	5	01/05/20 04:20	12/11/19	
Endosulfan Sulfate	12 U	12	6.1	5	01/05/20 04:20	12/11/19	
Endrin	**46**	12	6.1	5	01/05/20 04:20	12/11/19	
Endrin Aldehyde	**52**	12	6.1	5	01/05/20 04:20	12/11/19	
Endrin Ketone	**65**	12	6.1	5	01/05/20 04:20	12/11/19	
Heptachlor	12 U	12	6.1	5	01/05/20 04:20	12/11/19	
Heptachlor Epoxide	12 U	12	6.1	5	01/05/20 04:20	12/11/19	
Methoxychlor	12 U	12	6.1	5	01/05/20 04:20	12/11/19	
Toxaphene	240 U	240	140	5	01/05/20 04:20	12/11/19	
alpha-BHC	12 U	12	6.1	5	01/05/20 04:20	12/11/19	
alpha-Chlordane	12 U	12	6.1	5	01/05/20 04:20	12/11/19	
beta-BHC	12 U	12	6.1	5	01/05/20 04:20	12/11/19	
delta-BHC	12 U	12	6.1	5	01/05/20 04:20	12/11/19	
gamma-BHC (Lindane)	12 U	12	6.1	5	01/05/20 04:20	12/11/19	
gamma-Chlordane	**12 J**	12	6.1	5	01/05/20 04:20	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	353 *	10 - 145	01/05/20 04:20	*
Tetrachloro-m-xylene	84	10 - 123	01/05/20 04:20	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:09
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB6 3-4	**Units:**	ug/Kg
Lab Code:	R1911946-001	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3541

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	82	U	82	43	2	12/18/19 22:26	12/11/19	
Aroclor 1221	170	U	170	83	2	12/18/19 22:26	12/11/19	
Aroclor 1232	82	U	82	48	2	12/18/19 22:26	12/11/19	
Aroclor 1242	82	U	82	43	2	12/18/19 22:26	12/11/19	
Aroclor 1248	**350**		82	64	2	12/18/19 22:26	12/11/19	
Aroclor 1254	**260**		82	45	2	12/18/19 22:26	12/11/19	
Aroclor 1260	**73**	**J**	82	43	2	12/18/19 22:26	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	87	22 - 128	12/18/19 22:26	
Tetrachloro-m-xylene	77	14 - 119	12/18/19 22:26	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:09
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB 6-8	**Units:**	ug/Kg
Lab Code:	R1911946-002	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	39 U	39	21	1	12/18/19 22:47	12/11/19	
Aroclor 1221	79 U	79	40	1	12/18/19 22:47	12/11/19	
Aroclor 1232	39 U	39	23	1	12/18/19 22:47	12/11/19	
Aroclor 1242	39 U	39	21	1	12/18/19 22:47	12/11/19	
Aroclor 1248	**50**	39	31	1	12/18/19 22:47	12/11/19	
Aroclor 1254	**30 J**	39	22	1	12/18/19 22:47	12/11/19	
Aroclor 1260	39 U	39	21	1	12/18/19 22:47	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	97	22 - 128	12/18/19 22:47	
Tetrachloro-m-xylene	88	14 - 119	12/18/19 22:47	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:45
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB7 4-5	**Units:**	ug/Kg
Lab Code:	R1911946-003	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	440 U	440	230	10	12/18/19 23:07	12/11/19	
Aroclor 1221	890 U	890	440	10	12/18/19 23:07	12/11/19	
Aroclor 1232	440 U	440	260	10	12/18/19 23:07	12/11/19	
Aroclor 1242	440 U	440	230	10	12/18/19 23:07	12/11/19	
Aroclor 1248	**2000**	440	340	10	12/18/19 23:07	12/11/19	
Aroclor 1254	**1400**	440	240	10	12/18/19 23:07	12/11/19	
Aroclor 1260	**450**	440	230	10	12/18/19 23:07	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	121	22 - 128	12/18/19 23:07	
Tetrachloro-m-xylene	82	14 - 119	12/18/19 23:07	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:45
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB7 6-8	**Units:**	ug/Kg
Lab Code:	R1911946-004	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	100 U	100	52	2	12/18/19 23:27	12/11/19	
Aroclor 1221	200 U	200	110	2	12/18/19 23:27	12/11/19	
Aroclor 1232	100 U	100	59	2	12/18/19 23:27	12/11/19	
Aroclor 1242	100 U	100	52	2	12/18/19 23:27	12/11/19	
Aroclor 1248	**540**	100	79	2	12/18/19 23:27	12/11/19	
Aroclor 1254	**160**	100	56	2	12/18/19 23:27	12/11/19	
Aroclor 1260	100 U	100	52	2	12/18/19 23:27	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	91	22 - 128	12/18/19 23:27	
Tetrachloro-m-xylene	74	14 - 119	12/18/19 23:27	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:45
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB7 10-12	**Units:**	ug/Kg
Lab Code:	R1911946-005	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	38 U	38	20	1	12/12/19 20:00	12/11/19	
Aroclor 1221	77 U	77	38	1	12/12/19 20:00	12/11/19	
Aroclor 1232	38 U	38	22	1	12/12/19 20:00	12/11/19	
Aroclor 1242	38 U	38	20	1	12/12/19 20:00	12/11/19	
Aroclor 1248	**41**	38	30	1	12/12/19 20:00	12/11/19	
Aroclor 1254	38 U	38	21	1	12/12/19 20:00	12/11/19	
Aroclor 1260	38 U	38	20	1	12/12/19 20:00	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	82	22 - 128	12/12/19 20:00	
Tetrachloro-m-xylene	47	14 - 119	12/12/19 20:00	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 09:45
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB1 1-2	**Units:**	ug/Kg
Lab Code:	R1911946-006	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	40 U	40	21	1	12/12/19 20:20	12/11/19	
Aroclor 1221	81 U	81	40	1	12/12/19 20:20	12/11/19	
Aroclor 1232	40 U	40	24	1	12/12/19 20:20	12/11/19	
Aroclor 1242	40 U	40	21	1	12/12/19 20:20	12/11/19	
Aroclor 1248	40 U	40	31	1	12/12/19 20:20	12/11/19	
Aroclor 1254	40 U	40	22	1	12/12/19 20:20	12/11/19	
Aroclor 1260	40 U	40	21	1	12/12/19 20:20	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	83	22 - 128	12/12/19 20:20	
Tetrachloro-m-xylene	65	14 - 119	12/12/19 20:20	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 10:11
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB1 17-18	**Units:**	ug/Kg
Lab Code:	R1911946-007	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	39 U	39	21	1	12/12/19 21:01	12/11/19	
Aroclor 1221	79 U	79	40	1	12/12/19 21:01	12/11/19	
Aroclor 1232	39 U	39	23	1	12/12/19 21:01	12/11/19	
Aroclor 1242	39 U	39	21	1	12/12/19 21:01	12/11/19	
Aroclor 1248	39 U	39	31	1	12/12/19 21:01	12/11/19	
Aroclor 1254	39 U	39	22	1	12/12/19 21:01	12/11/19	
Aroclor 1260	39 U	39	21	1	12/12/19 21:01	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	82	22 - 128	12/12/19 21:01	
Tetrachloro-m-xylene	44	14 - 119	12/12/19 21:01	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 13:06
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SS-1	**Units:**	ug/Kg
Lab Code:	R1911946-008	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	39 U	39	21	1	12/12/19 21:21	12/11/19	
Aroclor 1221	79 U	79	40	1	12/12/19 21:21	12/11/19	
Aroclor 1232	39 U	39	23	1	12/12/19 21:21	12/11/19	
Aroclor 1242	39 U	39	21	1	12/12/19 21:21	12/11/19	
Aroclor 1248	39 U	39	31	1	12/12/19 21:21	12/11/19	
Aroclor 1254	**280**	39	22	1	12/12/19 21:21	12/11/19	
Aroclor 1260	**37 J**	39	21	1	12/12/19 21:21	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	70	22 - 128	12/12/19 21:21	
Tetrachloro-m-xylene	71	14 - 119	12/12/19 21:21	

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 13:06
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SS-2	**Units:**	ug/Kg
Lab Code:	R1911946-009	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	67 U	67	35	1	12/12/19 21:41	12/11/19	
Aroclor 1221	140 U	140	67	1	12/12/19 21:41	12/11/19	
Aroclor 1232	67 U	67	39	1	12/12/19 21:41	12/11/19	
Aroclor 1242	67 U	67	35	1	12/12/19 21:41	12/11/19	
Aroclor 1248	67 U	67	52	1	12/12/19 21:41	12/11/19	
Aroclor 1254	**72**	67	37	1	12/12/19 21:41	12/11/19	
Aroclor 1260	67 U	67	35	1	12/12/19 21:41	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	63	22 - 128	12/12/19 21:41	
Tetrachloro-m-xylene	62	14 - 119	12/12/19 21:41	

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:06
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SS-3	**Units:**	ug/Kg
Lab Code:	R1911946-010	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	48 U	48	25	1	12/12/19 22:02	12/11/19	
Aroclor 1221	98 U	98	49	1	12/12/19 22:02	12/11/19	
Aroclor 1232	48 U	48	29	1	12/12/19 22:02	12/11/19	
Aroclor 1242	48 U	48	25	1	12/12/19 22:02	12/11/19	
Aroclor 1248	**41 J**	48	38	1	12/12/19 22:02	12/11/19	
Aroclor 1254	**42 J**	48	27	1	12/12/19 22:02	12/11/19	
Aroclor 1260	48 U	48	25	1	12/12/19 22:02	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	50	22 - 128	12/12/19 22:02	
Tetrachloro-m-xylene	48	14 - 119	12/12/19 22:02	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:17
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SS-4	**Units:**	ug/Kg
Lab Code:	R1911946-011	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	48 U	48	25	1	12/12/19 22:22	12/11/19	
Aroclor 1221	97 U	97	48	1	12/12/19 22:22	12/11/19	
Aroclor 1232	48 U	48	28	1	12/12/19 22:22	12/11/19	
Aroclor 1242	48 U	48	25	1	12/12/19 22:22	12/11/19	
Aroclor 1248	48 U	48	37	1	12/12/19 22:22	12/11/19	
Aroclor 1254	**51**	48	27	1	12/12/19 22:22	12/11/19	
Aroclor 1260	**25 J**	48	25	1	12/12/19 22:22	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	69	22 - 128	12/12/19 22:22	
Tetrachloro-m-xylene	75	14 - 119	12/12/19 22:22	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:09
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB6 3-4	**Units:**	ug/Kg
Lab Code:	R1911946-001	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	12 U	12	4.4	1	12/18/19 01:12	12/16/19	
2,4,5-TP	12 U	12	4.1	1	12/18/19 01:12	12/16/19	
2,4-D	12 U	12	6.8	1	12/18/19 01:12	12/16/19	
Dicamba	12 U	12	4.4	1	12/18/19 01:12	12/16/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	51	10 - 151	12/18/19 01:12	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:09
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB 6-8	**Units:**	ug/Kg
Lab Code:	R1911946-002	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	12 U	12	4.3	1	12/18/19 01:29	12/16/19	
2,4,5-TP	12 U	12	4.0	1	12/18/19 01:29	12/16/19	
2,4-D	12 U	12	6.6	1	12/18/19 01:29	12/16/19	
Dicamba	12 U	12	4.3	1	12/18/19 01:29	12/16/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	57	10 - 151	12/18/19 01:29	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:45
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB7 4-5	**Units:**	ug/Kg
Lab Code:	R1911946-003	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	13 U	13	4.8	1	12/18/19 01:46	12/16/19	
2,4,5-TP	13 U	13	4.5	1	12/18/19 01:46	12/16/19	
2,4-D	13 U	13	7.3	1	12/18/19 01:46	12/16/19	
Dicamba	13 U	13	4.8	1	12/18/19 01:46	12/16/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	56	10 - 151	12/18/19 01:46	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:45
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB7 6-8	**Units:**	ug/Kg
Lab Code:	R1911946-004	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	15 U	15	5.4	1	12/18/19 02:02	12/16/19	
2,4,5-TP	15 U	15	5.1	1	12/18/19 02:02	12/16/19	
2,4-D	15 U	15	8.3	1	12/18/19 02:02	12/16/19	
Dicamba	15 U	15	5.4	1	12/18/19 02:02	12/16/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	68	10 - 151	12/18/19 02:02	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:45
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB7 10-12	**Units:**	ug/Kg
Lab Code:	R1911946-005	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	11 U	11	4.1	1	12/18/19 02:19	12/16/19	
2,4,5-TP	11 U	11	3.9	1	12/18/19 02:19	12/16/19	
2,4-D	11 U	11	6.3	1	12/18/19 02:19	12/16/19	
Dicamba	11 U	11	4.2	1	12/18/19 02:19	12/16/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	57	10 - 151	12/18/19 02:19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 09:45
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB1 1-2	**Units:**	ug/Kg
Lab Code:	R1911946-006	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	12 U	12	4.3	1	12/18/19 02:36	12/16/19	
2,4,5-TP	12 U	12	4.1	1	12/18/19 02:36	12/16/19	
2,4-D	12 U	12	6.7	1	12/18/19 02:36	12/16/19	
Dicamba	12 U	12	4.4	1	12/18/19 02:36	12/16/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	51	10 - 151	12/18/19 02:36	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 10:11
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB1 17-18	**Units:**	ug/Kg
Lab Code:	R1911946-007	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	12 U	12	4.3	1	12/18/19 02:53	12/16/19	
2,4,5-TP	12 U	12	4.1	1	12/18/19 02:53	12/16/19	
2,4-D	12 U	12	6.7	1	12/18/19 02:53	12/16/19	
Dicamba	12 U	12	4.4	1	12/18/19 02:53	12/16/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	54	10 - 151	12/18/19 02:53	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 13:06
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SS-1	**Units:**	ug/Kg
Lab Code:	R1911946-008	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	**8.5**	**J**	12	4.2	1	12/18/19 18:53	12/16/19	
2,4,5-TP	12	U	12	4.0	1	12/18/19 18:53	12/16/19	
2,4-D	12	U	12	6.6	1	12/18/19 18:53	12/16/19	
Dicamba	12	U	12	4.3	1	12/18/19 18:53	12/16/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	42	10 - 151	12/18/19 18:53	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 13:06
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SS-2	**Units:**	ug/Kg
Lab Code:	R1911946-009	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	20 U	20	7.2	1	12/18/19 03:43	12/16/19	
2,4,5-TP	20 U	20	6.8	1	12/18/19 03:43	12/16/19	
2,4-D	20 U	20	12	1	12/18/19 03:43	12/16/19	
Dicamba	20 U	20	7.3	1	12/18/19 03:43	12/16/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	58	10 - 151	12/18/19 03:43	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:06
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SS-3	**Units:**	ug/Kg
Lab Code:	R1911946-010	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	**86**	15	5.5	1	12/18/19 19:10	12/16/19	
2,4,5-TP	15 U	15	5.2	1	12/18/19 19:10	12/16/19	
2,4-D	15 U	15	8.5	1	12/18/19 19:10	12/16/19	
Dicamba	15 U	15	5.6	1	12/18/19 19:10	12/16/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	39	10 - 151	12/18/19 19:10	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:17
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SS-4	**Units:**	ug/Kg
Lab Code:	R1911946-011	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	**30**	14	5.3	1	12/18/19 19:27	12/16/19	
2,4,5-TP	14 U	14	5.0	1	12/18/19 19:27	12/16/19	
2,4-D	14 U	14	8.2	1	12/18/19 19:27	12/16/19	
Dicamba	14 U	14	5.3	1	12/18/19 19:27	12/16/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	31	10 - 151	12/18/19 19:27	

Metals

ALS Environmental—Rochester Laboratory
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METALS
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INORGANIC ANALYSIS DATA PACKAGE

Client: Leader Professional Services, In
Service Request: SB6 3-4
Project No.: R1911946
Date Collected: 12/4/2019
Project Name:
Date Received: 12/5/2019
Matrix: SOIL
Units: mg/Kg
Basis:

Sample Name: SB6 3-4
Lab Code: R1911946-001

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	22.5	13.5	1.0	12100		
Antimony	6010C	6.8	0.608	1.0	6.8	U	
Arsenic	6010C	1.1	0.788	1.0	4.9		
Barium	6010C	2.3	1.1	1.0	130		
Beryllium	6010C	0.338	0.033	1.0	0.641		
Cadmium	6010C	0.563	0.082	1.0	0.608		
Mercury	7471B	0.039	0.007	1.0	0.075		
Calcium	6010C	1130	360	10.0	55500		
Chromium	6010C	1.1	0.394	1.0	17.7		
Cobalt	6010C	5.6	0.214	1.0	8.1		
Copper	6010C	2.3	0.709	1.0	32.9		
Iron	6010C	225	146	10.0	19900		
Lead	6010C	5.6	0.450	1.0	86.9		
Magnesium	6010C	113	14.6	1.0	15000		
Manganese	6010C	2.3	1.7	1.0	464		
Nickel	6010C	4.5	0.743	1.0	16.3		
Potassium	6010C	225	10.8	1.0	1780		
Selenium	6010C	1.1	0.608	1.0	1.1	U	
Silver	6010C	1.1	0.080	1.0	1.1	U	
Sodium	6010C	113	58.5	1.0	138		
Thallium	6010C	1.1	0.731	1.0	1.2		
Vanadium	6010C	5.6	0.799	1.0	24.9		
Zinc	6010C	2.3	1.6	1.0	323		

% Solids: 82.3

Comments:

METALS
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INORGANIC ANALYSIS DATA PACKAGE

Client: Leader Professional Services, In
Project No.: R1911946
Project Name:
Matrix: SOIL

Service Request: SB6 3-4
Date Collected: 12/4/2019
Date Received: 12/5/2019
Units: mg/Kg
Basis:

Sample Name: SB 6-8 **Lab Code:** R1911946-002

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	21.7	13.0	1.0	10500		
Antimony	6010C	6.5	0.585	1.0	6.5	U	
Arsenic	6010C	1.1	0.759	1.0	2.7		
Barium	6010C	2.2	1.1	1.0	92.3		
Beryllium	6010C	0.325	0.031	1.0	0.510		
Cadmium	6010C	0.542	0.079	1.0	0.314	J	
Mercury	7471B	0.037	0.006	1.0	0.421		
Calcium	6010C	1080	347	10.0	67200		
Chromium	6010C	1.1	0.379	1.0	16.1		
Cobalt	6010C	5.4	0.206	1.0	9.0		
Copper	6010C	2.2	0.683	1.0	22.7		
Iron	6010C	217	141	10.0	21100		
Lead	6010C	5.4	0.434	1.0	17.0		
Magnesium	6010C	108	14.1	1.0	17400		
Manganese	6010C	2.2	1.6	1.0	583		
Nickel	6010C	4.3	0.716	1.0	14.4		
Potassium	6010C	217	10.4	1.0	2260		
Selenium	6010C	1.1	0.585	1.0	1.1	U	
Silver	6010C	1.1	0.077	1.0	1.1	U	
Sodium	6010C	108	56.4	1.0	180		
Thallium	6010C	1.1	0.705	1.0	2.1		
Vanadium	6010C	5.4	0.770	1.0	23.5		
Zinc	6010C	2.2	1.5	1.0	72.1		

% Solids: 85.4

Comments:

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Leader Professional Services, In
Service Request: SB6 3-4
Project No.: R1911946
Date Collected: 12/4/2019
Project Name:
Date Received: 12/5/2019
Matrix: SOIL
Units: mg/Kg
Basis:

Sample Name: SB7 4-5
Lab Code: R1911946-003

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	23.3	14.0	1.0	10600		
Antimony	6010C	7.0	0.630	1.0	7.0	U	
Arsenic	6010C	1.2	0.817	1.0	3.6		
Barium	6010C	2.3	1.1	1.0	136		
Beryllium	6010C	0.350	0.034	1.0	0.537		
Cadmium	6010C	0.583	0.085	1.0	0.607		
Mercury	7471B	0.210	0.037	5.0	3.1		
Calcium	6010C	1170	373	10.0	61500		
Chromium	6010C	1.2	0.408	1.0	34.4		
Cobalt	6010C	5.8	0.222	1.0	10.7		
Copper	6010C	2.3	0.735	1.0	34.7		
Iron	6010C	233	152	10.0	22400		
Lead	6010C	5.8	0.467	1.0	243		
Magnesium	6010C	117	15.2	1.0	13100		
Manganese	6010C	2.3	1.8	1.0	616		
Nickel	6010C	4.7	0.770	1.0	13.6		
Potassium	6010C	233	11.2	1.0	1960		
Selenium	6010C	1.2	0.630	1.0	1.2	U	
Silver	6010C	1.2	0.083	1.0	1.2	U	
Sodium	6010C	117	60.7	1.0	160		
Thallium	6010C	11.7	7.6	10.0	11.7	U	
Vanadium	6010C	5.8	0.829	1.0	23.9		
Zinc	6010C	2.3	1.6	1.0	282		

% Solids: 77.9

Comments:

Form 1 IN

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Leader Professional Services, In
Project No.: R1911946
Project Name:
Matrix: SOIL

Service Request: SB6 3-4
Date Collected: 12/4/2019
Date Received: 12/5/2019
Units: mg/Kg
Basis:

Sample Name: SB7 6-8 **Lab Code:** R1911946-004

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	27.8	16.7	1.0	12100		
Antimony	6010C	8.3	0.750	1.0	8.3	U	
Arsenic	6010C	1.4	0.973	1.0	3.3		
Barium	6010C	2.8	1.4	1.0	122		
Beryllium	6010C	0.417	0.040	1.0	0.570		
Cadmium	6010C	0.695	0.101	1.0	0.445	J	
Mercury	7471B	0.047	0.008	1.0	0.564		
Calcium	6010C	1390	445	10.0	80900		
Chromium	6010C	1.4	0.486	1.0	19.1		
Cobalt	6010C	7.0	0.264	1.0	9.3		
Copper	6010C	2.8	0.875	1.0	20.2		
Iron	6010C	278	181	10.0	25100		
Lead	6010C	7.0	0.556	1.0	16.2		
Magnesium	6010C	139	18.1	1.0	24400		
Manganese	6010C	2.8	2.1	1.0	683		
Nickel	6010C	5.6	0.917	1.0	16.0		
Potassium	6010C	278	13.3	1.0	2770		
Selenium	6010C	1.4	0.750	1.0	1.4	U	
Silver	6010C	1.4	0.099	1.0	1.4	U	
Sodium	6010C	139	72.2	1.0	249		
Thallium	6010C	1.4	0.903	1.0	2.3		
Vanadium	6010C	7.0	0.986	1.0	25.9		
Zinc	6010C	2.8	2.0	1.0	128		

% Solids: 67.9

Comments:

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Leader Professional Services, In
Project No.: R1911946
Project Name:
Matrix: SOIL

Service Request: SB6 3-4
Date Collected: 12/4/2019
Date Received: 12/5/2019
Units: mg/Kg
Basis:

Sample Name: SB7 10-12 **Lab Code:** R1911946-005

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	20.7	12.4	1.0	9230		
Antimony	6010C	6.2	0.560	1.0	6.2	U	
Arsenic	6010C	1.0	0.726	1.0	2.6		
Barium	6010C	2.1	1.0	1.0	64.1		
Beryllium	6010C	0.311	0.030	1.0	0.425		
Cadmium	6010C	0.518	0.076	1.0	0.332	J	
Mercury	7471B	0.037	0.006	1.0	0.035	J	
Calcium	6010C	1040	332	10.0	62800		
Chromium	6010C	1.0	0.363	1.0	14.0		
Cobalt	6010C	5.2	0.197	1.0	6.5		
Copper	6010C	2.1	0.653	1.0	18.4		
Iron	6010C	207	135	10.0	18600		
Lead	6010C	5.2	0.415	1.0	9.0		
Magnesium	6010C	104	13.5	1.0	19400		
Manganese	6010C	2.1	1.6	1.0	524		
Nickel	6010C	4.2	0.684	1.0	12.2		
Potassium	6010C	207	10.0	1.0	2250		
Selenium	6010C	1.0	0.560	1.0	1.0	U	
Silver	6010C	1.0	0.074	1.0	1.0	U	
Sodium	6010C	104	53.9	1.0	174		
Thallium	6010C	1.0	0.674	1.0	1.6		
Vanadium	6010C	5.2	0.736	1.0	20.7		
Zinc	6010C	2.1	1.5	1.0	73.0		

% Solids: 89.3

Comments:

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Leader Professional Services, In
Project No.: R1911946
Project Name:
Matrix: SOIL

Service Request: SB6 3-4
Date Collected: 12/4/2019
Date Received: 12/5/2019
Units: mg/Kg
Basis:

Sample Name: SB1 1-2
Lab Code: R1911946-006

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	21.9	13.2	1.0	14000		
Antimony	6010C	6.6	0.592	1.0	6.6	U	
Arsenic	6010C	1.1	0.768	1.0	5.1		
Barium	6010C	2.2	1.1	1.0	125		
Beryllium	6010C	0.329	0.032	1.0	0.768		
Cadmium	6010C	0.549	0.080	1.0	0.494	J	
Mercury	7471B	0.037	0.006	1.0	0.035	J	
Calcium	6010C	110	35.1	1.0	2290		
Chromium	6010C	1.1	0.384	1.0	17.3		
Cobalt	6010C	5.5	0.208	1.0	11.1		
Copper	6010C	2.2	0.691	1.0	19.1		
Iron	6010C	219	143	10.0	26300		
Lead	6010C	5.5	0.439	1.0	16.9		
Magnesium	6010C	110	14.3	1.0	3810		
Manganese	6010C	21.9	16.5	10.0	1590		
Nickel	6010C	4.4	0.724	1.0	17.2		
Potassium	6010C	219	10.5	1.0	1280		
Selenium	6010C	1.1	0.592	1.0	1.1	U	
Silver	6010C	1.1	0.078	1.0	1.1	U	
Sodium	6010C	110	57.0	1.0	110	U	
Thallium	6010C	1.1	0.713	1.0	1.1	U	
Vanadium	6010C	5.5	0.779	1.0	29.8		
Zinc	6010C	2.2	1.5	1.0	75.2		

% Solids: 84.4

Comments:

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Leader Professional Services, In
Project No.: R1911946
Project Name:
Matrix: SOIL

Service Request: SB6 3-4
Date Collected: 12/4/2019
Date Received: 12/5/2019
Units: mg/Kg
Basis:

Sample Name: SB1 17-18
Lab Code: R1911946-007

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	23.2	13.9	1.0	7600		
Antimony	6010C	7.0	0.626	1.0	7.0	U	
Arsenic	6010C	1.2	0.811	1.0	2.3		
Barium	6010C	2.3	1.1	1.0	78.9		
Beryllium	6010C	0.348	0.034	1.0	0.359		
Cadmium	6010C	0.579	0.085	1.0	0.324	J	
Mercury	7471B	0.039	0.007	1.0	0.024	J	
Calcium	6010C	1160	371	10.0	75100		
Chromium	6010C	1.2	0.406	1.0	22.0		
Cobalt	6010C	5.8	0.220	1.0	5.9		
Copper	6010C	2.3	0.730	1.0	19.9		
Iron	6010C	232	151	10.0	16300		
Lead	6010C	5.8	0.464	1.0	12.8		
Magnesium	6010C	116	15.1	1.0	28700		
Manganese	6010C	2.3	1.7	1.0	538		
Nickel	6010C	4.6	0.765	1.0	10.1		
Potassium	6010C	232	11.1	1.0	2010		
Selenium	6010C	1.2	0.626	1.0	1.2	U	
Silver	6010C	1.2	0.082	1.0	1.2	U	
Sodium	6010C	116	60.3	1.0	179		
Thallium	6010C	1.2	0.753	1.0	2.0		
Vanadium	6010C	5.8	0.823	1.0	18.3		
Zinc	6010C	2.3	1.6	1.0	74.1		

% Solids: 84.6

Comments:

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Leader Professional Services, In
Service Request: SB6 3-4
Project No.: R1911946
Date Collected: 12/4/2019
Project Name:
Date Received: 12/5/2019
Matrix: SOIL
Units: mg/Kg
Basis:

Sample Name: SS-1
Lab Code: R1911946-008

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	21.2	12.7	1.0	7130		
Antimony	6010C	6.4	0.573	1.0	6.4	U	
Arsenic	6010C	1.1	0.743	1.0	4.2		
Barium	6010C	2.1	1.0	1.0	87.2		
Beryllium	6010C	0.319	0.031	1.0	0.531		
Cadmium	6010C	0.531	0.078	1.0	0.850		
Mercury	7471B	0.038	0.007	1.0	0.782		
Calcium	6010C	1060	340	10.0	67600		
Chromium	6010C	1.1	0.372	1.0	20.7		
Cobalt	6010C	5.3	0.202	1.0	4.4	J	
Copper	6010C	2.1	0.669	1.0	37.8		
Iron	6010C	212	138	10.0	14700		
Lead	6010C	5.3	0.425	1.0	199		
Magnesium	6010C	106	13.8	1.0	13100		
Manganese	6010C	2.1	1.6	1.0	419		
Nickel	6010C	4.3	0.701	1.0	10.8		
Potassium	6010C	212	10.2	1.0	1460		
Selenium	6010C	1.1	0.573	1.0	1.1	U	
Silver	6010C	1.1	0.075	1.0	0.106	J	
Sodium	6010C	106	55.2	1.0	134		
Thallium	6010C	1.1	0.690	1.0	1.9		
Vanadium	6010C	5.3	0.754	1.0	13.6		
Zinc	6010C	2.1	1.5	1.0	210		

% Solids: 85.6

Comments:

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Leader Professional Services, In
Project No.: R1911946
Project Name:
Matrix: SOIL

Service Request: SB6 3-4
Date Collected: 12/4/2019
Date Received: 12/5/2019
Units: mg/Kg
Basis:

Sample Name: SS-2 **Lab Code:** R1911946-009

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	36.0	21.6	1.0	7190		
Antimony	6010C	10.8	0.972	1.0	10.8	U	
Arsenic	6010C	1.8	1.3	1.0	3.8		
Barium	6010C	3.6	1.8	1.0	96.3		
Beryllium	6010C	0.540	0.052	1.0	0.342	J	
Cadmium	6010C	0.900	0.131	1.0	0.882	J	
Mercury	7471B	0.062	0.011	1.0	0.152		
Calcium	6010C	1800	576	10.0	22100		
Chromium	6010C	1.8	0.630	1.0	23.7		
Cobalt	6010C	9.0	0.342	1.0	4.8	J	
Copper	6010C	3.6	1.1	1.0	32.8		
Iron	6010C	360	234	10.0	14100		
Lead	6010C	9.0	0.720	1.0	51.5		
Magnesium	6010C	180	23.4	1.0	6080		
Manganese	6010C	3.6	2.7	1.0	389		
Nickel	6010C	7.2	1.2	1.0	10.9		
Potassium	6010C	360	17.3	1.0	1680		
Selenium	6010C	1.8	0.972	1.0	1.8	U	
Silver	6010C	1.8	0.128	1.0	1.8	U	
Sodium	6010C	180	93.6	1.0	180	U	
Thallium	6010C	1.8	1.2	1.0	1.8	U	
Vanadium	6010C	9.0	1.3	1.0	16.0		
Zinc	6010C	3.6	2.5	1.0	176		

% Solids: 50.5

Comments:

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Leader Professional Services, In
Service Request: SB6 3-4
Project No.: R1911946
Date Collected: 12/4/2019
Project Name:
Date Received: 12/5/2019
Matrix: SOIL
Units: mg/Kg
Basis:

Sample Name: SS-3
Lab Code: R1911946-010

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	28.8	17.3	1.0	8150		
Antimony	6010C	8.6	0.777	1.0	8.6	U	
Arsenic	6010C	1.4	1.0	1.0	4.2		
Barium	6010C	2.9	1.4	1.0	95.2		
Beryllium	6010C	0.432	0.042	1.0	0.605		
Cadmium	6010C	0.720	0.105	1.0	0.662	J	
Mercury	7471B	0.050	0.009	1.0	0.089		
Calcium	6010C	1440	461	10.0	62100		
Chromium	6010C	1.4	0.504	1.0	40.1		
Cobalt	6010C	7.2	0.273	1.0	5.5	J	
Copper	6010C	2.9	0.907	1.0	47.4		
Iron	6010C	288	187	10.0	20300		
Lead	6010C	7.2	0.576	1.0	105		
Magnesium	6010C	144	18.7	1.0	14000		
Manganese	6010C	2.9	2.2	1.0	521		
Nickel	6010C	5.8	0.950	1.0	14.6		
Potassium	6010C	288	13.8	1.0	1860		
Selenium	6010C	1.4	0.777	1.0	1.4	U	
Silver	6010C	1.4	0.102	1.0	1.4	U	
Sodium	6010C	144	74.9	1.0	175		
Thallium	6010C	1.4	0.936	1.0	1.3	J	
Vanadium	6010C	7.2	1.0	1.0	18.2		
Zinc	6010C	2.9	2.0	1.0	226		

% Solids: 66.8

Comments:

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Leader Professional Services, In
Service Request: SB6 3-4
Project No.: R1911946
Date Collected: 12/4/2019
Project Name:
Date Received: 12/5/2019
Matrix: SOIL
Units: mg/Kg
Basis:

Sample Name: SS-4
Lab Code: R1911946-011

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	27.0	16.2	1.0	7680		
Antimony	6010C	8.1	0.728	1.0	8.1	U	
Arsenic	6010C	1.4	0.943	1.0	3.7		
Barium	6010C	2.7	1.3	1.0	86.8		
Beryllium	6010C	0.404	0.039	1.0	0.539		
Cadmium	6010C	0.674	0.098	1.0	0.607	J	
Mercury	7471B	0.045	0.008	1.0	0.225		
Calcium	6010C	1350	431	10.0	51900		
Chromium	6010C	1.4	0.472	1.0	26.6		
Cobalt	6010C	6.7	0.256	1.0	5.4	J	
Copper	6010C	2.7	0.849	1.0	35.3		
Iron	6010C	270	175	10.0	16900		
Lead	6010C	6.7	0.539	1.0	95.3		
Magnesium	6010C	135	17.5	1.0	12400		
Manganese	6010C	2.7	2.0	1.0	471		
Nickel	6010C	5.4	0.890	1.0	13.5		
Potassium	6010C	270	12.9	1.0	1820		
Selenium	6010C	1.4	0.728	1.0	1.4	U	
Silver	6010C	1.4	0.096	1.0	0.121	J	
Sodium	6010C	135	70.1	1.0	159		
Thallium	6010C	1.4	0.876	1.0	1.3	J	
Vanadium	6010C	6.7	0.957	1.0	17.7		
Zinc	6010C	2.7	1.9	1.0	218		

% Solids: 68.7

Comments:

General Chemistry

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:09
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB6 3-4	**Basis:**	Dry
Lab Code:	R1911946-001		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	0.33 U	mg/Kg	0.33	0.05	1	12/13/19 17:39	12/12/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:09
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB6 3-4	**Basis:**	As Received
Lab Code:	R1911946-001		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Total Solids	ALS SOP	**82.3**	Percent	-	-	1	12/11/19 08:45	NA	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:09
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB 6-8	**Basis:**	Dry
Lab Code:	R1911946-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	**0.08 J**	mg/Kg	0.28	0.05	1	12/13/19 17:40	12/12/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:09
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB 6-8	**Basis:**	As Received
Lab Code:	R1911946-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Total Solids	ALS SOP	**85.4**	Percent	-	-	1	12/11/19 08:45	NA	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:45
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB7 4-5	**Basis:**	Dry
Lab Code:	R1911946-003		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	**0.20 J**	mg/Kg	0.26	0.05	1	12/13/19 17:41	12/12/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:45
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB7 4-5	**Basis:**	As Received
Lab Code:	R1911946-003		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Total Solids	ALS SOP	**77.9**	Percent	-	-	1	12/11/19 08:45	NA	

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:45
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB7 6-8	**Basis:**	Dry
Lab Code:	R1911946-004		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	**1.34**	mg/Kg	0.32	0.05	1	12/13/19 17:42	12/12/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:45
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB7 6-8	**Basis:**	As Received
Lab Code:	R1911946-004		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Total Solids	ALS SOP	**67.9**	Percent	-	-	1	12/11/19 08:45	NA	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:45
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB7 10-12	**Basis:**	Dry
Lab Code:	R1911946-005		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	0.28 U	mg/Kg	0.28	0.05	1	12/13/19 17:46	12/12/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 15:45
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB7 10-12	**Basis:**	As Received
Lab Code:	R1911946-005		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Total Solids	ALS SOP	**89.3**	Percent	-	-	1	12/11/19 08:45	NA	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 09:45
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB1 1-2	**Basis:**	Dry
Lab Code:	R1911946-006		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	0.26 U	mg/Kg	0.26	0.05	1	12/13/19 17:46	12/12/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 09:45
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB1 1-2	**Basis:**	As Received
Lab Code:	R1911946-006		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Total Solids	ALS SOP	**84.4**	Percent	-	-	1	12/11/19 08:45	NA	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 10:11
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB1 17-18	**Basis:**	Dry
Lab Code:	R1911946-007		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	**0.33**	mg/Kg	0.29	0.05	1	12/13/19 17:47	12/12/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 10:11
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB1 17-18	**Basis:**	As Received
Lab Code:	R1911946-007		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Total Solids	ALS SOP	**84.6**	Percent	-	-	1	12/11/19 08:45	NA	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 13:06
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SS-1	**Basis:**	Dry
Lab Code:	R1911946-008		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	**0.42**	mg/Kg	0.32	0.05	1	12/13/19 17:48	12/12/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 13:06
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SS-1	**Basis:**	As Received
Lab Code:	R1911946-008		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Total Solids	ALS SOP	**85.6**	Percent	-	-	1	12/11/19 08:45	NA	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 13:06
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SS-2	**Basis:**	Dry
Lab Code:	R1911946-009		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	**0.59 B**	mg/Kg	0.39	0.06	1	12/13/19 17:51	12/12/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 13:06
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SS-2	**Basis:**	As Received
Lab Code:	R1911946-009		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Total Solids	ALS SOP	**50.5**	Percent	-	-	1	12/11/19 08:45	NA	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:06
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SS-3	**Basis:**	Dry
Lab Code:	R1911946-010		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	**0.68 B**	mg/Kg	0.36	0.06	1	12/13/19 17:55	12/12/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:06
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SS-3	**Basis:**	As Received
Lab Code:	R1911946-010		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Total Solids	ALS SOP	**66.8**	Percent	-	-	1	12/11/19 08:45	NA	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:17
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SS-4	**Basis:**	Dry
Lab Code:	R1911946-011		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	**0.61 B**	mg/Kg	0.42	0.07	1	12/13/19 17:56	12/12/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19 14:17
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SS-4	**Basis:**	As Received
Lab Code:	R1911946-011		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Total Solids	ALS SOP	**68.7**	Percent	-	-	1	12/11/19 08:45	NA	

QC Summary Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Leader Professional Services, Inc. **Service Request:** R1911946
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5035A

Sample Name	Lab Code	4-Bromofluorobenzene 31-154	Dibromofluoromethane 63-138	Toluene-d8 66-138
SB7 10-12	R1911946-005	95	96	100
Method Blank	RQ1914806-04	87	94	98
Lab Control Sample	RQ1914806-03	99	97	97
SB6 3-4	R1911946-001	78	94	98
SB 6-8	R1911946-002	95	93	96
SB7 4-5	R1911946-003	99	89	96
SB7 6-8	R1911946-004	100	87	96
SB7 6-8 DL	R1911946-004	96	89	96
SB1 1-2	R1911946-006	100	93	100
SB1 17-18	R1911946-007	84	94	96
SB1 17-18 DL	R1911946-007	91	79	94
Method Blank	RQ1914460-04	99	96	99
Method Blank	RQ1914665-04	90	88	96
Method Blank	RQ1914737-04	89	82	94
Lab Control Sample	RQ1914460-03	98	98	97
Lab Control Sample	RQ1914665-03	97	94	97
Lab Control Sample	RQ1914737-03	92	93	96

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914460-04	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	12/11/19 10:46	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	12/11/19 10:46	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	12/11/19 10:46	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	0.20	1	12/11/19 10:46	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	12/11/19 10:46	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.29	1	12/11/19 10:46	
1,2,3-Trichlorobenzene	5.0 U	5.0	0.52	1	12/11/19 10:46	
1,2,4-Trichlorobenzene	5.0 U	5.0	0.42	1	12/11/19 10:46	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	0.29	1	12/11/19 10:46	
1,2-Dibromoethane	5.0 U	5.0	0.20	1	12/11/19 10:46	
1,2-Dichlorobenzene	5.0 U	5.0	0.20	1	12/11/19 10:46	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	12/11/19 10:46	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	12/11/19 10:46	
1,3-Dichlorobenzene	5.0 U	5.0	0.20	1	12/11/19 10:46	
1,4-Dichlorobenzene	5.0 U	5.0	0.22	1	12/11/19 10:46	
1,4-Dioxane	100 U	100	20	1	12/11/19 10:46	
2-Butanone (MEK)	5.0 U	5.0	2.0	1	12/11/19 10:46	
2-Hexanone	5.0 U	5.0	0.36	1	12/11/19 10:46	
4-Methyl-2-pentanone	5.0 U	5.0	0.23	1	12/11/19 10:46	
Acetone	5.0 U	5.0	4.7	1	12/11/19 10:46	
Benzene	5.0 U	5.0	0.20	1	12/11/19 10:46	
Bromochloromethane	5.0 U	5.0	0.20	1	12/11/19 10:46	
Bromodichloromethane	5.0 U	5.0	0.20	1	12/11/19 10:46	
Bromoform	5.0 U	5.0	0.50	1	12/11/19 10:46	
Bromomethane	5.0 U	5.0	2.1	1	12/11/19 10:46	
Carbon Disulfide	5.0 U	5.0	0.29	1	12/11/19 10:46	
Carbon Tetrachloride	5.0 U	5.0	0.26	1	12/11/19 10:46	
Chlorobenzene	5.0 U	5.0	0.20	1	12/11/19 10:46	
Chloroethane	5.0 U	5.0	0.20	1	12/11/19 10:46	
Chloroform	5.0 U	5.0	0.20	1	12/11/19 10:46	
Chloromethane	5.0 U	5.0	1.4	1	12/11/19 10:46	
Cyclohexane	5.0 U	5.0	0.26	1	12/11/19 10:46	
Dibromochloromethane	5.0 U	5.0	0.20	1	12/11/19 10:46	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	0.33	1	12/11/19 10:46	
Dichloromethane	5.0 U	5.0	2.8	1	12/11/19 10:46	
Ethylbenzene	5.0 U	5.0	0.20	1	12/11/19 10:46	
Isopropylbenzene (Cumene)	5.0 U	5.0	0.20	1	12/11/19 10:46	
Methyl Acetate	5.0 U	5.0	0.84	1	12/11/19 10:46	
Methyl tert-Butyl Ether	5.0 U	5.0	0.20	1	12/11/19 10:46	
Methylcyclohexane	5.0 U	5.0	0.31	1	12/11/19 10:46	
Styrene	5.0 U	5.0	0.20	1	12/11/19 10:46	
Tetrachloroethene (PCE)	5.0 U	5.0	0.23	1	12/11/19 10:46	
Toluene	5.0 U	5.0	0.20	1	12/11/19 10:46	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914460-04	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	12/11/19 10:46	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	0.26	1	12/11/19 10:46	
Vinyl Chloride	5.0 U	5.0	0.46	1	12/11/19 10:46	
cis-1,2-Dichloroethene	5.0 U	5.0	0.20	1	12/11/19 10:46	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	12/11/19 10:46	
m,p-Xylenes	10 U	10	0.37	1	12/11/19 10:46	
o-Xylene	5.0 U	5.0	0.20	1	12/11/19 10:46	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	12/11/19 10:46	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	12/11/19 10:46	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	31 - 154	12/11/19 10:46	
Dibromofluoromethane	96	63 - 138	12/11/19 10:46	
Toluene-d8	99	66 - 138	12/11/19 10:46	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914665-04	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	250 U	250	10	50	12/16/19 14:07	
1,1,2,2-Tetrachloroethane	250 U	250	10	50	12/16/19 14:07	
1,1,2-Trichloroethane	250 U	250	10	50	12/16/19 14:07	
1,1,2-Trichloro-1,2,2-trifluoroethane	250 U	250	10	50	12/16/19 14:07	
1,1-Dichloroethane (1,1-DCA)	250 U	250	10	50	12/16/19 14:07	
1,1-Dichloroethene (1,1-DCE)	250 U	250	15	50	12/16/19 14:07	
1,2,3-Trichlorobenzene	250 U	250	26	50	12/16/19 14:07	
1,2,4-Trichlorobenzene	250 U	250	21	50	12/16/19 14:07	
1,2-Dibromo-3-chloropropane (DBCP)	250 U	250	15	50	12/16/19 14:07	
1,2-Dibromoethane	250 U	250	10	50	12/16/19 14:07	
1,2-Dichlorobenzene	250 U	250	10	50	12/16/19 14:07	
1,2-Dichloroethane	250 U	250	10	50	12/16/19 14:07	
1,2-Dichloropropane	250 U	250	10	50	12/16/19 14:07	
1,3-Dichlorobenzene	250 U	250	10	50	12/16/19 14:07	
1,4-Dichlorobenzene	250 U	250	11	50	12/16/19 14:07	
1,4-Dioxane	5000 U	5000	1000	50	12/16/19 14:07	
2-Butanone (MEK)	250 U	250	100	50	12/16/19 14:07	
2-Hexanone	250 U	250	18	50	12/16/19 14:07	
4-Methyl-2-pentanone	250 U	250	12	50	12/16/19 14:07	
Acetone	250 U	250	240	50	12/16/19 14:07	
Benzene	250 U	250	10	50	12/16/19 14:07	
Bromochloromethane	250 U	250	10	50	12/16/19 14:07	
Bromodichloromethane	250 U	250	10	50	12/16/19 14:07	
Bromoform	250 U	250	25	50	12/16/19 14:07	
Bromomethane	250 U	250	110	50	12/16/19 14:07	
Carbon Disulfide	250 U	250	15	50	12/16/19 14:07	
Carbon Tetrachloride	250 U	250	13	50	12/16/19 14:07	
Chlorobenzene	250 U	250	10	50	12/16/19 14:07	
Chloroethane	250 U	250	10	50	12/16/19 14:07	
Chloroform	250 U	250	10	50	12/16/19 14:07	
Chloromethane	250 U	250	70	50	12/16/19 14:07	
Cyclohexane	250 U	250	13	50	12/16/19 14:07	
Dibromochloromethane	250 U	250	10	50	12/16/19 14:07	
Dichlorodifluoromethane (CFC 12)	250 U	250	17	50	12/16/19 14:07	
Dichloromethane	250 U	250	140	50	12/16/19 14:07	
Ethylbenzene	250 U	250	10	50	12/16/19 14:07	
Isopropylbenzene (Cumene)	250 U	250	10	50	12/16/19 14:07	
Methyl Acetate	250 U	250	42	50	12/16/19 14:07	
Methyl tert-Butyl Ether	250 U	250	10	50	12/16/19 14:07	
Methylcyclohexane	250 U	250	16	50	12/16/19 14:07	
Styrene	250 U	250	10	50	12/16/19 14:07	
Tetrachloroethene (PCE)	250 U	250	12	50	12/16/19 14:07	
Toluene	250 U	250	10	50	12/16/19 14:07	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914665-04	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	250 U	250	11	50	12/16/19 14:07	
Trichlorofluoromethane (CFC 11)	250 U	250	13	50	12/16/19 14:07	
Vinyl Chloride	250 U	250	23	50	12/16/19 14:07	
cis-1,2-Dichloroethene	250 U	250	10	50	12/16/19 14:07	
cis-1,3-Dichloropropene	250 U	250	10	50	12/16/19 14:07	
m,p-Xylenes	500 U	500	19	50	12/16/19 14:07	
o-Xylene	250 U	250	10	50	12/16/19 14:07	
trans-1,2-Dichloroethene	250 U	250	10	50	12/16/19 14:07	
trans-1,3-Dichloropropene	250 U	250	10	50	12/16/19 14:07	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	31 - 154	12/16/19 14:07	
Dibromofluoromethane	88	63 - 138	12/16/19 14:07	
Toluene-d8	96	66 - 138	12/16/19 14:07	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914737-04	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	250 U	250	10	50	12/17/19 11:20	
1,1,2,2-Tetrachloroethane	250 U	250	10	50	12/17/19 11:20	
1,1,2-Trichloroethane	250 U	250	10	50	12/17/19 11:20	
1,1,2-Trichloro-1,2,2-trifluoroethane	250 U	250	10	50	12/17/19 11:20	
1,1-Dichloroethane (1,1-DCA)	250 U	250	10	50	12/17/19 11:20	
1,1-Dichloroethene (1,1-DCE)	250 U	250	15	50	12/17/19 11:20	
1,2,3-Trichlorobenzene	250 U	250	26	50	12/17/19 11:20	
1,2,4-Trichlorobenzene	250 U	250	21	50	12/17/19 11:20	
1,2-Dibromo-3-chloropropane (DBCP)	250 U	250	15	50	12/17/19 11:20	
1,2-Dibromoethane	250 U	250	10	50	12/17/19 11:20	
1,2-Dichlorobenzene	250 U	250	10	50	12/17/19 11:20	
1,2-Dichloroethane	250 U	250	10	50	12/17/19 11:20	
1,2-Dichloropropane	250 U	250	10	50	12/17/19 11:20	
1,3-Dichlorobenzene	250 U	250	10	50	12/17/19 11:20	
1,4-Dichlorobenzene	250 U	250	11	50	12/17/19 11:20	
1,4-Dioxane	5000 U	5000	1000	50	12/17/19 11:20	
2-Butanone (MEK)	250 U	250	100	50	12/17/19 11:20	
2-Hexanone	250 U	250	18	50	12/17/19 11:20	
4-Methyl-2-pentanone	250 U	250	12	50	12/17/19 11:20	
Acetone	250 U	250	240	50	12/17/19 11:20	
Benzene	250 U	250	10	50	12/17/19 11:20	
Bromochloromethane	250 U	250	10	50	12/17/19 11:20	
Bromodichloromethane	250 U	250	10	50	12/17/19 11:20	
Bromoform	250 U	250	25	50	12/17/19 11:20	
Bromomethane	250 U	250	110	50	12/17/19 11:20	
Carbon Disulfide	250 U	250	15	50	12/17/19 11:20	
Carbon Tetrachloride	250 U	250	13	50	12/17/19 11:20	
Chlorobenzene	250 U	250	10	50	12/17/19 11:20	
Chloroethane	250 U	250	10	50	12/17/19 11:20	
Chloroform	250 U	250	10	50	12/17/19 11:20	
Chloromethane	250 U	250	70	50	12/17/19 11:20	
Cyclohexane	250 U	250	13	50	12/17/19 11:20	
Dibromochloromethane	250 U	250	10	50	12/17/19 11:20	
Dichlorodifluoromethane (CFC 12)	250 U	250	17	50	12/17/19 11:20	
Dichloromethane	250 U	250	140	50	12/17/19 11:20	
Ethylbenzene	250 U	250	10	50	12/17/19 11:20	
Isopropylbenzene (Cumene)	250 U	250	10	50	12/17/19 11:20	
Methyl Acetate	250 U	250	42	50	12/17/19 11:20	
Methyl tert-Butyl Ether	250 U	250	10	50	12/17/19 11:20	
Methylcyclohexane	250 U	250	16	50	12/17/19 11:20	
Styrene	250 U	250	10	50	12/17/19 11:20	
Tetrachloroethene (PCE)	250 U	250	12	50	12/17/19 11:20	
Toluene	250 U	250	10	50	12/17/19 11:20	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914737-04	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	250 U	250	11	50	12/17/19 11:20	
Trichlorofluoromethane (CFC 11)	250 U	250	13	50	12/17/19 11:20	
Vinyl Chloride	250 U	250	23	50	12/17/19 11:20	
cis-1,2-Dichloroethene	250 U	250	10	50	12/17/19 11:20	
cis-1,3-Dichloropropene	250 U	250	10	50	12/17/19 11:20	
m,p-Xylenes	500 U	500	19	50	12/17/19 11:20	
o-Xylene	250 U	250	10	50	12/17/19 11:20	
trans-1,2-Dichloroethene	250 U	250	10	50	12/17/19 11:20	
trans-1,3-Dichloropropene	250 U	250	10	50	12/17/19 11:20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	89	31 - 154	12/17/19 11:20	
Dibromofluoromethane	82	63 - 138	12/17/19 11:20	
Toluene-d8	94	66 - 138	12/17/19 11:20	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914806-04	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	12/18/19 11:42	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	12/18/19 11:42	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	12/18/19 11:42	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	0.20	1	12/18/19 11:42	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	12/18/19 11:42	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.29	1	12/18/19 11:42	
1,2,3-Trichlorobenzene	5.0 U	5.0	0.52	1	12/18/19 11:42	
1,2,4-Trichlorobenzene	5.0 U	5.0	0.42	1	12/18/19 11:42	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	0.29	1	12/18/19 11:42	
1,2-Dibromoethane	5.0 U	5.0	0.20	1	12/18/19 11:42	
1,2-Dichlorobenzene	5.0 U	5.0	0.20	1	12/18/19 11:42	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	12/18/19 11:42	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	12/18/19 11:42	
1,3-Dichlorobenzene	5.0 U	5.0	0.20	1	12/18/19 11:42	
1,4-Dichlorobenzene	5.0 U	5.0	0.22	1	12/18/19 11:42	
1,4-Dioxane	100 U	100	20	1	12/18/19 11:42	
2-Butanone (MEK)	5.0 U	5.0	2.0	1	12/18/19 11:42	
2-Hexanone	5.0 U	5.0	0.36	1	12/18/19 11:42	
4-Methyl-2-pentanone	5.0 U	5.0	0.23	1	12/18/19 11:42	
Acetone	5.0 U	5.0	4.7	1	12/18/19 11:42	
Benzene	5.0 U	5.0	0.20	1	12/18/19 11:42	
Bromochloromethane	5.0 U	5.0	0.20	1	12/18/19 11:42	
Bromodichloromethane	5.0 U	5.0	0.20	1	12/18/19 11:42	
Bromoform	5.0 U	5.0	0.50	1	12/18/19 11:42	
Bromomethane	5.0 U	5.0	2.1	1	12/18/19 11:42	
Carbon Disulfide	5.0 U	5.0	0.29	1	12/18/19 11:42	
Carbon Tetrachloride	5.0 U	5.0	0.26	1	12/18/19 11:42	
Chlorobenzene	5.0 U	5.0	0.20	1	12/18/19 11:42	
Chloroethane	5.0 U	5.0	0.20	1	12/18/19 11:42	
Chloroform	5.0 U	5.0	0.20	1	12/18/19 11:42	
Chloromethane	5.0 U	5.0	1.4	1	12/18/19 11:42	
Cyclohexane	5.0 U	5.0	0.26	1	12/18/19 11:42	
Dibromochloromethane	5.0 U	5.0	0.20	1	12/18/19 11:42	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	0.33	1	12/18/19 11:42	
Dichloromethane	5.0 U	5.0	2.8	1	12/18/19 11:42	
Ethylbenzene	5.0 U	5.0	0.20	1	12/18/19 11:42	
Isopropylbenzene (Cumene)	5.0 U	5.0	0.20	1	12/18/19 11:42	
Methyl Acetate	5.0 U	5.0	0.84	1	12/18/19 11:42	
Methyl tert-Butyl Ether	5.0 U	5.0	0.20	1	12/18/19 11:42	
Methylcyclohexane	5.0 U	5.0	0.31	1	12/18/19 11:42	
Styrene	5.0 U	5.0	0.20	1	12/18/19 11:42	
Tetrachloroethene (PCE)	5.0 U	5.0	0.23	1	12/18/19 11:42	
Toluene	5.0 U	5.0	0.20	1	12/18/19 11:42	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914806-04	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	12/18/19 11:42	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	0.26	1	12/18/19 11:42	
Vinyl Chloride	5.0 U	5.0	0.46	1	12/18/19 11:42	
cis-1,2-Dichloroethene	5.0 U	5.0	0.20	1	12/18/19 11:42	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	12/18/19 11:42	
m,p-Xylenes	10 U	10	0.37	1	12/18/19 11:42	
o-Xylene	5.0 U	5.0	0.20	1	12/18/19 11:42	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	12/18/19 11:42	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	12/18/19 11:42	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	87	31 - 154	12/18/19 11:42	
Dibromofluoromethane	94	63 - 138	12/18/19 11:42	
Toluene-d8	98	66 - 138	12/18/19 11:42	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

Service Request: R1911946
Date Analyzed: 12/11/19

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/Kg
Basis: Dry

Lab Control Sample
RQ1914460-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	20.2	20.0	101	68-123
1,1,2,2-Tetrachloroethane	8260C	20.4	20.0	102	78-121
1,1,2-Trichloroethane	8260C	20.4	20.0	102	84-117
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	20.5	20.0	102	54-121
1,1-Dichloroethane (1,1-DCA)	8260C	20.1	20.0	100	76-123
1,1-Dichloroethene (1,1-DCE)	8260C	19.8	20.0	99	65-115
1,2,3-Trichlorobenzene	8260C	18.2	20.0	91	60-128
1,2,4-Trichlorobenzene	8260C	18.7	20.0	93	62-130
1,2-Dibromo-3-chloropropane (DBCP)	8260C	18.9	20.0	94	54-135
1,2-Dibromoethane	8260C	20.0	20.0	100	77-117
1,2-Dichlorobenzene	8260C	18.7	20.0	93	75-116
1,2-Dichloroethane	8260C	19.4	20.0	97	74-116
1,2-Dichloropropane	8260C	20.8	20.0	104	79-112
1,3-Dichlorobenzene	8260C	19.6	20.0	98	72-118
1,4-Dichlorobenzene	8260C	19.3	20.0	97	72-117
1,4-Dioxane	8260C	334	400	83	59-147
2-Butanone (MEK)	8260C	17.2	20.0	86	67-129
2-Hexanone	8260C	19.6	20.0	98	68-118
4-Methyl-2-pentanone	8260C	19.7	20.0	98	64-123
Acetone	8260C	17.8	20.0	89	32-154
Benzene	8260C	20.8	20.0	104	77-114
Bromochloromethane	8260C	20.3	20.0	101	78-117
Bromodichloromethane	8260C	20.0	20.0	100	72-118
Bromoform	8260C	20.4	20.0	102	55-134
Bromomethane	8260C	15.8	20.0	79	10-150
Carbon Disulfide	8260C	20.7	20.0	104	44-139
Carbon Tetrachloride	8260C	20.5	20.0	103	51-123
Chlorobenzene	8260C	20.3	20.0	101	79-115
Chloroethane	8260C	18.9	20.0	94	10-140
Chloroform	8260C	20.0	20.0	100	76-115
Chloromethane	8260C	20.8	20.0	104	10-131
Cyclohexane	8260C	20.7	20.0	103	67-122
Dibromochloromethane	8260C	21.1	20.0	105	68-121

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

Service Request: R1911946
Date Analyzed: 12/11/19

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/Kg
Basis: Dry

Lab Control Sample
RQ1914460-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	8260C	21.5	20.0	108	51-144
Dichloromethane	8260C	17.9	20.0	89	72-118
Ethylbenzene	8260C	20.2	20.0	101	64-118
Isopropylbenzene (Cumene)	8260C	20.0	20.0	100	60-123
Methyl Acetate	8260C	18.5	20.0	93	31-122
Methyl tert-Butyl Ether	8260C	20.0	20.0	100	76-118
Methylcyclohexane	8260C	21.5	20.0	107	70-124
Styrene	8260C	19.9	20.0	99	74-117
Tetrachloroethene (PCE)	8260C	20.0	20.0	100	58-124
Toluene	8260C	20.4	20.0	102	72-116
Trichloroethene (TCE)	8260C	19.6	20.0	98	69-118
Trichlorofluoromethane (CFC 11)	8260C	20.3	20.0	102	52-127
Vinyl Chloride	8260C	19.8	20.0	99	59-153
cis-1,2-Dichloroethene	8260C	20.4	20.0	102	79-113
cis-1,3-Dichloropropene	8260C	20.9	20.0	104	66-117
m,p-Xylenes	8260C	41.0	40.0	102	68-118
o-Xylene	8260C	20.4	20.0	102	71-116
trans-1,2-Dichloroethene	8260C	20.2	20.0	101	73-114
trans-1,3-Dichloropropene	8260C	20.2	20.0	101	57-135

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

Service Request: R1911946
Date Analyzed: 12/16/19

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/Kg
Basis: Dry

Lab Control Sample
RQ1914665-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	17.7	20.0	89	68-123
1,1,2,2-Tetrachloroethane	8260C	20.7	20.0	103	78-121
1,1,2-Trichloroethane	8260C	20.5	20.0	102	84-117
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	18.6	20.0	93	54-121
1,1-Dichloroethane (1,1-DCA)	8260C	19.6	20.0	98	76-123
1,1-Dichloroethene (1,1-DCE)	8260C	19.0	20.0	95	65-115
1,2,3-Trichlorobenzene	8260C	22.0	20.0	110	60-128
1,2,4-Trichlorobenzene	8260C	22.7	20.0	114	62-130
1,2-Dibromo-3-chloropropane (DBCP)	8260C	19.2	20.0	96	54-135
1,2-Dibromoethane	8260C	20.1	20.0	100	77-117
1,2-Dichlorobenzene	8260C	21.1	20.0	106	75-116
1,2-Dichloroethane	8260C	18.1	20.0	91	74-116
1,2-Dichloropropane	8260C	21.1	20.0	105	79-112
1,3-Dichlorobenzene	8260C	20.5	20.0	102	72-118
1,4-Dichlorobenzene	8260C	19.8	20.0	99	72-117
1,4-Dioxane	8260C	399	400	100	59-147
2-Butanone (MEK)	8260C	18.3	20.0	91	67-129
2-Hexanone	8260C	17.8	20.0	89	68-118
4-Methyl-2-pentanone	8260C	17.8	20.0	89	64-123
Acetone	8260C	17.2	20.0	86	32-154
Benzene	8260C	20.5	20.0	102	77-114
Bromochloromethane	8260C	20.1	20.0	100	78-117
Bromodichloromethane	8260C	17.9	20.0	90	72-118
Bromoform	8260C	19.5	20.0	97	55-134
Bromomethane	8260C	9.12	20.0	46	10-150
Carbon Disulfide	8260C	17.2	20.0	86	44-139
Carbon Tetrachloride	8260C	16.9	20.0	84	51-123
Chlorobenzene	8260C	19.8	20.0	99	79-115
Chloroethane	8260C	11.4	20.0	57	10-140
Chloroform	8260C	18.9	20.0	94	76-115
Chloromethane	8260C	21.9	20.0	109	10-131
Cyclohexane	8260C	19.6	20.0	98	67-122
Dibromochloromethane	8260C	18.8	20.0	94	68-121

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

Service Request: R1911946
Date Analyzed: 12/16/19

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/Kg
Basis: Dry

Lab Control Sample
RQ1914665-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	8260C	20.6	20.0	103	51-144
Dichloromethane	8260C	19.6	20.0	98	72-118
Ethylbenzene	8260C	19.5	20.0	97	64-118
Isopropylbenzene (Cumene)	8260C	19.1	20.0	96	60-123
Methyl Acetate	8260C	18.7	20.0	93	31-122
Methyl tert-Butyl Ether	8260C	20.0	20.0	100	76-118
Methylcyclohexane	8260C	21.7	20.0	108	70-124
Styrene	8260C	20.3	20.0	101	74-117
Tetrachloroethene (PCE)	8260C	19.3	20.0	97	58-124
Toluene	8260C	19.8	20.0	99	72-116
Trichloroethene (TCE)	8260C	18.6	20.0	93	69-118
Trichlorofluoromethane (CFC 11)	8260C	17.3	20.0	87	52-127
Vinyl Chloride	8260C	19.9	20.0	99	59-153
cis-1,2-Dichloroethene	8260C	20.5	20.0	103	79-113
cis-1,3-Dichloropropene	8260C	19.5	20.0	98	66-117
m,p-Xylenes	8260C	39.8	40.0	99	68-118
o-Xylene	8260C	20.3	20.0	102	71-116
trans-1,2-Dichloroethene	8260C	19.7	20.0	98	73-114
trans-1,3-Dichloropropene	8260C	19.4	20.0	97	57-135

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

Service Request: R1911946
Date Analyzed: 12/17/19

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/Kg
Basis: Dry

Lab Control Sample
RQ1914737-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	17.0	20.0	85	68-123
1,1,2,2-Tetrachloroethane	8260C	21.0	20.0	105	78-121
1,1,2-Trichloroethane	8260C	20.5	20.0	102	84-117
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	18.2	20.0	91	54-121
1,1-Dichloroethane (1,1-DCA)	8260C	19.3	20.0	96	76-123
1,1-Dichloroethene (1,1-DCE)	8260C	19.1	20.0	95	65-115
1,2,3-Trichlorobenzene	8260C	21.8	20.0	109	60-128
1,2,4-Trichlorobenzene	8260C	21.9	20.0	110	62-130
1,2-Dibromo-3-chloropropane (DBCP)	8260C	20.0	20.0	100	54-135
1,2-Dibromoethane	8260C	20.3	20.0	101	77-117
1,2-Dichlorobenzene	8260C	20.5	20.0	102	75-116
1,2-Dichloroethane	8260C	17.8	20.0	89	74-116
1,2-Dichloropropane	8260C	20.6	20.0	103	79-112
1,3-Dichlorobenzene	8260C	19.4	20.0	97	72-118
1,4-Dichlorobenzene	8260C	19.3	20.0	96	72-117
1,4-Dioxane	8260C	437	400	109	59-147
2-Butanone (MEK)	8260C	19.2	20.0	96	67-129
2-Hexanone	8260C	19.6	20.0	98	68-118
4-Methyl-2-pentanone	8260C	19.4	20.0	97	64-123
Acetone	8260C	18.3	20.0	91	32-154
Benzene	8260C	20.5	20.0	102	77-114
Bromochloromethane	8260C	19.8	20.0	99	78-117
Bromodichloromethane	8260C	17.7	20.0	88	72-118
Bromoform	8260C	19.3	20.0	96	55-134
Bromomethane	8260C	8.86	20.0	44	10-150
Carbon Disulfide	8260C	15.5	20.0	77	44-139
Carbon Tetrachloride	8260C	16.2	20.0	81	51-123
Chlorobenzene	8260C	19.4	20.0	97	79-115
Chloroethane	8260C	11.0	20.0	55	10-140
Chloroform	8260C	18.8	20.0	94	76-115
Chloromethane	8260C	21.1	20.0	105	10-131
Cyclohexane	8260C	18.9	20.0	94	67-122
Dibromochloromethane	8260C	18.7	20.0	93	68-121

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

Service Request: R1911946
Date Analyzed: 12/17/19

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/Kg
Basis: Dry

Lab Control Sample
RQ1914737-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	8260C	20.1	20.0	100	51-144
Dichloromethane	8260C	19.4	20.0	97	72-118
Ethylbenzene	8260C	19.1	20.0	96	64-118
Isopropylbenzene (Cumene)	8260C	18.7	20.0	94	60-123
Methyl Acetate	8260C	22.2	20.0	111	31-122
Methyl tert-Butyl Ether	8260C	20.1	20.0	100	76-118
Methylcyclohexane	8260C	20.6	20.0	103	70-124
Styrene	8260C	19.9	20.0	99	74-117
Tetrachloroethene (PCE)	8260C	19.3	20.0	96	58-124
Toluene	8260C	19.3	20.0	97	72-116
Trichloroethene (TCE)	8260C	18.6	20.0	93	69-118
Trichlorofluoromethane (CFC 11)	8260C	17.0	20.0	85	52-127
Vinyl Chloride	8260C	19.8	20.0	99	59-153
cis-1,2-Dichloroethene	8260C	20.1	20.0	101	79-113
cis-1,3-Dichloropropene	8260C	19.5	20.0	98	66-117
m,p-Xylenes	8260C	39.3	40.0	98	68-118
o-Xylene	8260C	19.8	20.0	99	71-116
trans-1,2-Dichloroethene	8260C	19.8	20.0	99	73-114
trans-1,3-Dichloropropene	8260C	19.1	20.0	95	57-135

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

Service Request: R1911946
Date Analyzed: 12/18/19

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/Kg
Basis: Dry

Lab Control Sample
RQ1914806-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	17.3	20.0	86	68-123
1,1,2,2-Tetrachloroethane	8260C	19.5	20.0	97	78-121
1,1,2-Trichloroethane	8260C	20.1	20.0	101	84-117
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	17.5	20.0	88	54-121
1,1-Dichloroethane (1,1-DCA)	8260C	19.0	20.0	95	76-123
1,1-Dichloroethene (1,1-DCE)	8260C	17.8	20.0	89	65-115
1,2,3-Trichlorobenzene	8260C	18.6	20.0	93	60-128
1,2,4-Trichlorobenzene	8260C	19.1	20.0	96	62-130
1,2-Dibromo-3-chloropropane (DBCP)	8260C	19.3	20.0	96	54-135
1,2-Dibromoethane	8260C	19.9	20.0	100	77-117
1,2-Dichlorobenzene	8260C	19.4	20.0	97	75-116
1,2-Dichloroethane	8260C	18.1	20.0	90	74-116
1,2-Dichloropropane	8260C	19.7	20.0	99	79-112
1,3-Dichlorobenzene	8260C	19.6	20.0	98	72-118
1,4-Dichlorobenzene	8260C	19.5	20.0	97	72-117
1,4-Dioxane	8260C	369	400	92	59-147
2-Butanone (MEK)	8260C	16.5	20.0	82	67-129
2-Hexanone	8260C	19.2	20.0	96	68-118
4-Methyl-2-pentanone	8260C	19.6	20.0	98	64-123
Acetone	8260C	17.1	20.0	85	32-154
Benzene	8260C	19.3	20.0	96	77-114
Bromochloromethane	8260C	19.3	20.0	97	78-117
Bromodichloromethane	8260C	18.6	20.0	93	72-118
Bromoform	8260C	19.9	20.0	100	55-134
Bromomethane	8260C	15.5	20.0	77	10-150
Carbon Disulfide	8260C	18.6	20.0	93	44-139
Carbon Tetrachloride	8260C	17.4	20.0	87	51-123
Chlorobenzene	8260C	19.0	20.0	95	79-115
Chloroethane	8260C	15.9	20.0	80	10-140
Chloroform	8260C	18.8	20.0	94	76-115
Chloromethane	8260C	20.9	20.0	104	10-131
Cyclohexane	8260C	19.4	20.0	97	67-122
Dibromochloromethane	8260C	20.0	20.0	100	68-121

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

Service Request: R1911946
Date Analyzed: 12/18/19

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/Kg
Basis: Dry

Lab Control Sample
RQ1914806-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	8260C	18.9	20.0	95	51-144
Dichloromethane	8260C	17.0	20.0	85	72-118
Ethylbenzene	8260C	18.8	20.0	94	64-118
Isopropylbenzene (Cumene)	8260C	18.5	20.0	93	60-123
Methyl Acetate	8260C	19.3	20.0	96	31-122
Methyl tert-Butyl Ether	8260C	19.9	20.0	99	76-118
Methylcyclohexane	8260C	20.4	20.0	102	70-124
Styrene	8260C	19.3	20.0	97	74-117
Tetrachloroethene (PCE)	8260C	17.8	20.0	89	58-124
Toluene	8260C	18.8	20.0	94	72-116
Trichloroethene (TCE)	8260C	18.1	20.0	91	69-118
Trichlorofluoromethane (CFC 11)	8260C	17.2	20.0	86	52-127
Vinyl Chloride	8260C	18.1	20.0	91	59-153
cis-1,2-Dichloroethene	8260C	19.4	20.0	97	79-113
cis-1,3-Dichloropropene	8260C	19.9	20.0	99	66-117
m,p-Xylenes	8260C	38.5	40.0	96	68-118
o-Xylene	8260C	19.5	20.0	97	71-116
trans-1,2-Dichloroethene	8260C	18.6	20.0	93	73-114
trans-1,3-Dichloropropene	8260C	19.6	20.0	98	57-135

Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Leader Professional Services, Inc. **Service Request:** R1911946
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3541

Sample Name	Lab Code	2,4,6-Tribromophenol 10-109	2-Fluorobiphenyl 10-102	2-Fluorophenol 10-88
SB6 3-4	R1911946-001	71	43	40
SB 6-8	R1911946-002	73	57	53
SB7 4-5	R1911946-003	75	40	40
SB7 6-8	R1911946-004	49	41	39
SB7 10-12	R1911946-005	72	53	51
SB1 1-2	R1911946-006	70	46	38
SB1 17-18	R1911946-007	64	52	45
SS-1	R1911946-008	74	45	40
SS-2	R1911946-009	68	32	39
SS-3	R1911946-010	62	33	28
SS-4	R1911946-011	59	44	36
Method Blank	RQ1914346-05	50	48	46
Method Blank	RQ1914484-01	67	57	46
Lab Control Sample	RQ1914346-06	68	55	52
Duplicate Lab Control Sample	RQ1914346-07	70	58	55
Lab Control Sample	RQ1914484-02	75	58	50
Duplicate Lab Control Sample	RQ1914484-03	77	53	48

Client: Leader Professional Services, Inc. **Service Request:** R1911946
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3541

Sample Name	Lab Code	Nitrobenzene-d5 10-95	Phenol-d6 10-145	Terphenyl-d14 10-106
SB6 3-4	R1911946-001	42	41	83
SB 6-8	R1911946-002	56	54	73
SB7 4-5	R1911946-003	36	44	74
SB7 6-8	R1911946-004	43	40	55
SB7 10-12	R1911946-005	55	53	77
SB1 1-2	R1911946-006	37	42	82
SB1 17-18	R1911946-007	48	48	75
SS-1	R1911946-008	42	42	89
SS-2	R1911946-009	38	40	59
SS-3	R1911946-010	27	32	62
SS-4	R1911946-011	39	39	61
Method Blank	RQ1914346-05	51	48	69
Method Blank	RQ1914484-01	48	50	82
Lab Control Sample	RQ1914346-06	54	51	74
Duplicate Lab Control Sample	RQ1914346-07	59	55	76
Lab Control Sample	RQ1914484-02	53	50	84
Duplicate Lab Control Sample	RQ1914484-03	50	48	86

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914346-05	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	340 U	340	81	1	12/17/19 18:41	12/10/19	
2,3,4,6-Tetrachlorophenol	340 U	340	72	1	12/17/19 18:41	12/10/19	
2,4,5-Trichlorophenol	340 U	340	290	1	12/17/19 18:41	12/10/19	
2,4,6-Trichlorophenol	340 U	340	60	1	12/17/19 18:41	12/10/19	
2,4-Dichlorophenol	340 U	340	73	1	12/17/19 18:41	12/10/19	
2,4-Dimethylphenol	340 U	340	75	1	12/17/19 18:41	12/10/19	
2,4-Dinitrophenol	1800 U	1800	130	1	12/17/19 18:41	12/10/19	
2,4-Dinitrotoluene	340 U	340	140	1	12/17/19 18:41	12/10/19	
2,6-Dinitrotoluene	340 U	340	100	1	12/17/19 18:41	12/10/19	
2-Chloronaphthalene	340 U	340	82	1	12/17/19 18:41	12/10/19	
2-Chlorophenol	340 U	340	84	1	12/17/19 18:41	12/10/19	
2-Methylnaphthalene	340 U	340	75	1	12/17/19 18:41	12/10/19	
2-Methylphenol	340 U	340	74	1	12/17/19 18:41	12/10/19	
2-Nitroaniline	1800 U	1800	110	1	12/17/19 18:41	12/10/19	
2-Nitrophenol	340 U	340	99	1	12/17/19 18:41	12/10/19	
3,3'-Dichlorobenzidine	340 U	340	72	1	12/17/19 18:41	12/10/19	
3- and 4-Methylphenol Coelution	340 U	340	66	1	12/17/19 18:41	12/10/19	
3-Nitroaniline	1800 U	1800	73	1	12/17/19 18:41	12/10/19	
4,6-Dinitro-2-methylphenol	1800 U	1800	150	1	12/17/19 18:41	12/10/19	
4-Bromophenyl Phenyl Ether	340 U	340	130	1	12/17/19 18:41	12/10/19	
4-Chloro-3-methylphenol	340 U	340	75	1	12/17/19 18:41	12/10/19	
4-Chloroaniline	340 U	340	81	1	12/17/19 18:41	12/10/19	
4-Chlorophenyl Phenyl Ether	340 U	340	82	1	12/17/19 18:41	12/10/19	
4-Nitroaniline	1800 U	1800	73	1	12/17/19 18:41	12/10/19	
4-Nitrophenol	1800 U	1800	120	1	12/17/19 18:41	12/10/19	
Acenaphthene	340 U	340	77	1	12/17/19 18:41	12/10/19	
Acenaphthylene	340 U	340	90	1	12/17/19 18:41	12/10/19	
Acetophenone	340 U	340	78	1	12/17/19 18:41	12/10/19	
Anthracene	340 U	340	96	1	12/17/19 18:41	12/10/19	
Atrazine	340 U	340	140	1	12/17/19 18:41	12/10/19	
Benz(a)anthracene	340 U	340	110	1	12/17/19 18:41	12/10/19	
Benzaldehyde	1800 U	1800	68	1	12/17/19 18:41	12/10/19	
Benzo(a)pyrene	340 U	340	130	1	12/17/19 18:41	12/10/19	
Benzo(b)fluoranthene	340 U	340	120	1	12/17/19 18:41	12/10/19	
Benzo(g,h,i)perylene	340 U	340	90	1	12/17/19 18:41	12/10/19	
Benzo(k)fluoranthene	340 U	340	130	1	12/17/19 18:41	12/10/19	
Biphenyl	340 U	340	84	1	12/17/19 18:41	12/10/19	
2,2'-Oxybis(1-chloropropane)	340 U	340	140	1	12/17/19 18:41	12/10/19	
Bis(2-chloroethoxy)methane	340 U	340	91	1	12/17/19 18:41	12/10/19	
Bis(2-chloroethyl) Ether	340 U	340	89	1	12/17/19 18:41	12/10/19	
Bis(2-ethylhexyl) Phthalate	520 U	520	91	1	12/17/19 18:41	12/10/19	
Butyl Benzyl Phthalate	340 U	340	85	1	12/17/19 18:41	12/10/19	
Caprolactam	340 U	340	89	1	12/17/19 18:41	12/10/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914346-05	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	340 U	340	99	1	12/17/19 18:41	12/10/19	
Chrysene	340 U	340	130	1	12/17/19 18:41	12/10/19	
Di-n-butyl Phthalate	340 U	340	110	1	12/17/19 18:41	12/10/19	
Di-n-octyl Phthalate	340 U	340	110	1	12/17/19 18:41	12/10/19	
Dibenz(a,h)anthracene	340 U	340	110	1	12/17/19 18:41	12/10/19	
Dibenzofuran	340 U	340	68	1	12/17/19 18:41	12/10/19	
Diethyl Phthalate	340 U	340	73	1	12/17/19 18:41	12/10/19	
Dimethyl Phthalate	340 U	340	77	1	12/17/19 18:41	12/10/19	
Fluoranthene	340 U	340	130	1	12/17/19 18:41	12/10/19	
Fluorene	340 U	340	79	1	12/17/19 18:41	12/10/19	
Hexachlorobenzene	340 U	340	110	1	12/17/19 18:41	12/10/19	
Hexachlorobutadiene	340 U	340	83	1	12/17/19 18:41	12/10/19	
Hexachlorocyclopentadiene	340 U	340	75	1	12/17/19 18:41	12/10/19	
Hexachloroethane	340 U	340	88	1	12/17/19 18:41	12/10/19	
Indeno(1,2,3-cd)pyrene	340 U	340	120	1	12/17/19 18:41	12/10/19	
Isophorone	340 U	340	93	1	12/17/19 18:41	12/10/19	
N-Nitrosodi-n-propylamine	340 U	340	91	1	12/17/19 18:41	12/10/19	
N-Nitrosodiphenylamine	340 U	340	230	1	12/17/19 18:41	12/10/19	
Naphthalene	340 U	340	88	1	12/17/19 18:41	12/10/19	
Nitrobenzene	340 U	340	88	1	12/17/19 18:41	12/10/19	
Pentachlorophenol (PCP)	1800 U	1800	120	1	12/17/19 18:41	12/10/19	
Phenanthrene	340 U	340	100	1	12/17/19 18:41	12/10/19	
Phenol	340 U	340	81	1	12/17/19 18:41	12/10/19	
Pyrene	340 U	340	140	1	12/17/19 18:41	12/10/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	50	10 - 109	12/17/19 18:41	
2-Fluorobiphenyl	48	10 - 102	12/17/19 18:41	
2-Fluorophenol	46	10 - 88	12/17/19 18:41	
Nitrobenzene-d5	51	10 - 95	12/17/19 18:41	
Phenol-d6	48	10 - 145	12/17/19 18:41	
Terphenyl-d14	69	10 - 106	12/17/19 18:41	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
000763-93-9	3-Hexen-2-one	2.81	840	JN
	unknown	3.27	50000	J
	unknown	5.36	770	J

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914484-01	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	320 U	320	78	1	12/20/19 15:33	12/12/19	
2,3,4,6-Tetrachlorophenol	320 U	320	69	1	12/20/19 15:33	12/12/19	
2,4,5-Trichlorophenol	320 U	320	280	1	12/20/19 15:33	12/12/19	
2,4,6-Trichlorophenol	320 U	320	58	1	12/20/19 15:33	12/12/19	
2,4-Dichlorophenol	320 U	320	70	1	12/20/19 15:33	12/12/19	
2,4-Dimethylphenol	320 U	320	72	1	12/20/19 15:33	12/12/19	
2,4-Dinitrophenol	1700 U	1700	120	1	12/20/19 15:33	12/12/19	
2,4-Dinitrotoluene	320 U	320	130	1	12/20/19 15:33	12/12/19	
2,6-Dinitrotoluene	320 U	320	96	1	12/20/19 15:33	12/12/19	
2-Chloronaphthalene	320 U	320	79	1	12/20/19 15:33	12/12/19	
2-Chlorophenol	320 U	320	81	1	12/20/19 15:33	12/12/19	
2-Methylnaphthalene	320 U	320	72	1	12/20/19 15:33	12/12/19	
2-Methylphenol	320 U	320	71	1	12/20/19 15:33	12/12/19	
2-Nitroaniline	1700 U	1700	98	1	12/20/19 15:33	12/12/19	
2-Nitrophenol	320 U	320	95	1	12/20/19 15:33	12/12/19	
3,3'-Dichlorobenzidine	320 U	320	69	1	12/20/19 15:33	12/12/19	
3- and 4-Methylphenol Coelution	320 U	320	63	1	12/20/19 15:33	12/12/19	
3-Nitroaniline	1700 U	1700	70	1	12/20/19 15:33	12/12/19	
4,6-Dinitro-2-methylphenol	1700 U	1700	140	1	12/20/19 15:33	12/12/19	
4-Bromophenyl Phenyl Ether	320 U	320	120	1	12/20/19 15:33	12/12/19	
4-Chloro-3-methylphenol	320 U	320	72	1	12/20/19 15:33	12/12/19	
4-Chloroaniline	320 U	320	78	1	12/20/19 15:33	12/12/19	
4-Chlorophenyl Phenyl Ether	320 U	320	79	1	12/20/19 15:33	12/12/19	
4-Nitroaniline	1700 U	1700	70	1	12/20/19 15:33	12/12/19	
4-Nitrophenol	1700 U	1700	110	1	12/20/19 15:33	12/12/19	
Acenaphthene	320 U	320	74	1	12/20/19 15:33	12/12/19	
Acenaphthylene	320 U	320	87	1	12/20/19 15:33	12/12/19	
Acetophenone	320 U	320	75	1	12/20/19 15:33	12/12/19	
Anthracene	320 U	320	92	1	12/20/19 15:33	12/12/19	
Atrazine	320 U	320	130	1	12/20/19 15:33	12/12/19	
Benz(a)anthracene	320 U	320	97	1	12/20/19 15:33	12/12/19	
Benzaldehyde	1700 U	1700	65	1	12/20/19 15:33	12/12/19	
Benzo(a)pyrene	320 U	320	120	1	12/20/19 15:33	12/12/19	
Benzo(b)fluoranthene	320 U	320	110	1	12/20/19 15:33	12/12/19	
Benzo(g,h,i)perylene	320 U	320	87	1	12/20/19 15:33	12/12/19	
Benzo(k)fluoranthene	320 U	320	120	1	12/20/19 15:33	12/12/19	
Biphenyl	320 U	320	81	1	12/20/19 15:33	12/12/19	
2,2'-Oxybis(1-chloropropane)	320 U	320	130	1	12/20/19 15:33	12/12/19	
Bis(2-chloroethoxy)methane	320 U	320	88	1	12/20/19 15:33	12/12/19	
Bis(2-chloroethyl) Ether	320 U	320	86	1	12/20/19 15:33	12/12/19	
Bis(2-ethylhexyl) Phthalate	490 U	490	88	1	12/20/19 15:33	12/12/19	
Butyl Benzyl Phthalate	320 U	320	82	1	12/20/19 15:33	12/12/19	
Caprolactam	320 U	320	86	1	12/20/19 15:33	12/12/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914484-01	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	320 U	320	95	1	12/20/19 15:33	12/12/19	
Chrysene	320 U	320	120	1	12/20/19 15:33	12/12/19	
Di-n-butyl Phthalate	320 U	320	100	1	12/20/19 15:33	12/12/19	
Di-n-octyl Phthalate	320 U	320	97	1	12/20/19 15:33	12/12/19	
Dibenz(a,h)anthracene	320 U	320	98	1	12/20/19 15:33	12/12/19	
Dibenzofuran	320 U	320	65	1	12/20/19 15:33	12/12/19	
Diethyl Phthalate	320 U	320	70	1	12/20/19 15:33	12/12/19	
Dimethyl Phthalate	320 U	320	74	1	12/20/19 15:33	12/12/19	
Fluoranthene	320 U	320	120	1	12/20/19 15:33	12/12/19	
Fluorene	320 U	320	76	1	12/20/19 15:33	12/12/19	
Hexachlorobenzene	320 U	320	100	1	12/20/19 15:33	12/12/19	
Hexachlorobutadiene	320 U	320	80	1	12/20/19 15:33	12/12/19	
Hexachlorocyclopentadiene	320 U	320	72	1	12/20/19 15:33	12/12/19	
Hexachloroethane	320 U	320	85	1	12/20/19 15:33	12/12/19	
Indeno(1,2,3-cd)pyrene	320 U	320	110	1	12/20/19 15:33	12/12/19	
Isophorone	320 U	320	90	1	12/20/19 15:33	12/12/19	
N-Nitrosodi-n-propylamine	320 U	320	88	1	12/20/19 15:33	12/12/19	
N-Nitrosodiphenylamine	320 U	320	220	1	12/20/19 15:33	12/12/19	
Naphthalene	320 U	320	85	1	12/20/19 15:33	12/12/19	
Nitrobenzene	320 U	320	85	1	12/20/19 15:33	12/12/19	
Pentachlorophenol (PCP)	1700 U	1700	110	1	12/20/19 15:33	12/12/19	
Phenanthrene	320 U	320	96	1	12/20/19 15:33	12/12/19	
Phenol	320 U	320	78	1	12/20/19 15:33	12/12/19	
Pyrene	320 U	320	130	1	12/20/19 15:33	12/12/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	67	10 - 109	12/20/19 15:33	
2-Fluorobiphenyl	57	10 - 102	12/20/19 15:33	
2-Fluorophenol	46	10 - 88	12/20/19 15:33	
Nitrobenzene-d5	48	10 - 95	12/20/19 15:33	
Phenol-d6	50	10 - 145	12/20/19 15:33	
Terphenyl-d14	82	10 - 106	12/20/19 15:33	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
000763-93-9	3-Hexen-2-one	3.10	1300	JN
	unknown	3.52	45000	J
	unknown	5.52	1100	J

Client: Leader Professional Services, Inc. **Service Request:** R1911946
Project: Tonawanda Bisonite Paint **Date Analyzed:** 12/17/19
Sample Matrix: Soil

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/Kg
Basis: Dry

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ1914346-06			RQ1914346-07					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,2,4,5-Tetrachlorobenzene	8270D	930	1660	56	1030	1690	61	10-115	9	30
2,3,4,6-Tetrachlorophenol	8270D	1180	1660	71	1200	1690	71	29-100	<1	30
2,4,5-Trichlorophenol	8270D	1120	1660	67	1140	1690	68	29-97	1	30
2,4,6-Trichlorophenol	8270D	1070	1660	65	1140	1690	67	26-97	3	30
2,4-Dichlorophenol	8270D	990	1660	60	1040	1690	62	25-90	3	30
2,4-Dimethylphenol	8270D	929	1660	56	1010	1690	60	26-89	7	30
2,4-Dinitrophenol	8270D	942 J	1660	57	840 J	1690	50	10-128	13	30
2,4-Dinitrotoluene	8270D	1260	1660	76	1350	1690	80	30-111	5	30
2,6-Dinitrotoluene	8270D	1210	1660	73	1310	1690	78	28-105	7	30
2-Chloronaphthalene	8270D	971	1660	59	1060	1690	63	21-88	7	30
2-Chlorophenol	8270D	889	1660	54	975	1690	58	18-87	7	30
2-Methylnaphthalene	8270D	920	1660	56	992	1690	59	21-83	5	30
2-Methylphenol	8270D	951	1660	57	1040	1690	61	22-86	7	30
2-Nitroaniline	8270D	1360 J	1660	82	1470 J	1690	87	27-105	6	30
2-Nitrophenol	8270D	966	1660	58	1060	1690	63	20-88	8	30
3- and 4-Methylphenol Coelution	8270D	872	1660	53	941	1690	56	27-92	6	30
3-Nitroaniline	8270D	1030 J	1660	62	1040 J	1690	62	27-98	<1	30
4,6-Dinitro-2-methylphenol	8270D	1070 J	1660	65	1100 J	1690	65	11-96	<1	30
4-Bromophenyl Phenyl Ether	8270D	1020	1660	61	1070	1690	64	25-96	5	30
4-Chloro-3-methylphenol	8270D	1080	1660	65	1140	1690	68	29-92	5	30
4-Chloroaniline	8270D	730	1660	44	713	1690	42	21-72	5	30
4-Chlorophenyl Phenyl Ether	8270D	911	1660	55	970	1690	57	25-92	4	30
4-Nitroaniline	8270D	1180 J	1660	71	1300 J	1690	77	27-102	8	30
4-Nitrophenol	8270D	1220 J	1660	73	1280 J	1690	76	10-130	4	30
Acenaphthene	8270D	1040	1660	63	1120	1690	67	25-92	6	30
Acenaphthylene	8270D	1130	1660	68	1220	1690	72	27-93	6	30
Acetophenone	8270D	1720	3310	52	1880	3370	56	23-87	7	30
Anthracene	8270D	1140	1660	69	1180	1690	70	32-106	1	30
Benz(a)anthracene	8270D	1080	1660	66	1120	1690	67	33-109	2	30
Benzo(a)pyrene	8270D	1290	1660	78	1310	1690	78	34-115	<1	30
Benzo(b)fluoranthene	8270D	1140	1660	69	1200	1690	71	31-107	3	30
Benzo(g,h,i)perylene	8270D	1320	1660	80	1340	1690	80	30-127	<1	30
Benzo(k)fluoranthene	8270D	1280	1660	78	1280	1690	76	34-111	3	30

Client: Leader Professional Services, Inc. **Service Request:** R1911946
Project: Tonawanda Bisonite Paint **Date Analyzed:** 12/17/19
Sample Matrix: Soil

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/Kg
Basis: Dry

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ1914346-06			RQ1914346-07					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Biphenyl	8270D	966	1660	58	1040	1690	61	26-88	5	30
2,2'-Oxybis(1-chloropropane)	8270D	723	1660	44	802	1690	48	10-82	9	30
Bis(2-chloroethoxy)methane	8270D	860	1660	52	933	1690	55	17-85	6	30
Bis(2-chloroethyl) Ether	8270D	762	1660	46	832	1690	49	10-79	6	30
Bis(2-ethylhexyl) Phthalate	8270D	1200	1660	72	1250	1690	74	31-115	3	30
Butyl Benzyl Phthalate	8270D	1180	1660	71	1230	1690	73	31-115	3	30
Caprolactam	8270D	1050	1660	63	1110	1690	66	28-99	5	30
Carbazole	8270D	1250	1660	76	1280	1690	76	23-129	<1	30
Chrysene	8270D	1170	1660	71	1210	1690	72	34-108	1	30
Di-n-butyl Phthalate	8270D	1260	1660	76	1290	1690	77	33-114	1	30
Di-n-octyl Phthalate	8270D	1270	1660	77	1300	1690	77	32-116	<1	30
Dibenz(a,h)anthracene	8270D	746	1660	45	722	1690	43	23-122	5	30
Dibenzofuran	8270D	1070	1660	65	1150	1690	68	27-94	5	30
Diethyl Phthalate	8270D	1100	1660	66	1140	1690	68	26-101	3	30
Dimethyl Phthalate	8270D	1070	1660	65	1130	1690	67	27-98	3	30
Fluoranthene	8270D	1190	1660	72	1220	1690	72	34-111	<1	30
Fluorene	8270D	1030	1660	62	1100	1690	65	27-95	5	30
Hexachlorobenzene	8270D	1130	1660	68	1170	1690	70	30-104	3	30
Hexachlorobutadiene	8270D	901	1660	54	985	1690	58	10-142	7	30
Hexachlorocyclopentadiene	8270D	928	1660	56	1040	1690	61	10-133	9	30
Hexachloroethane	8270D	751	1660	45	844	1690	50	10-129	11	30
Indeno(1,2,3-cd)pyrene	8270D	1250	1660	75	1260	1690	75	33-121	<1	30
Isophorone	8270D	802	1660	48	853	1690	51	21-79	6	30
N-Nitrosodi-n-propylamine	8270D	928	1660	56	999	1690	59	15-78	5	30
N-Nitrosodiphenylamine	8270D	1270	1660	77	1320	1690	78	29-108	1	30
Naphthalene	8270D	900	1660	54	975	1690	58	18-81	7	30
Nitrobenzene	8270D	897	1660	54	996	1690	59	14-80	9	30
Pentachlorophenol (PCP)	8270D	1200 J	1660	73	1180 J	1690	70	13-117	4	30
Phenanthrene	8270D	1150	1660	70	1180	1690	70	33-103	<1	30
Phenol	8270D	948	1660	57	1020	1690	60	10-144	5	30
Pyrene	8270D	1210	1660	73	1250	1690	74	33-111	1	30

Client: Leader Professional Services, Inc. **Service Request:** R1911946
Project: Tonawanda Bisonite Paint **Date Analyzed:** 12/20/19
Sample Matrix: Soil

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/Kg
Basis: Dry

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ1914484-02			RQ1914484-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,2,4,5-Tetrachlorobenzene	8270D	1080	1670	65	962	1660	58	10-115	11	30
2,3,4,6-Tetrachlorophenol	8270D	1120	1660	67	1170	1660	71	29-100	6	30
2,4,5-Trichlorophenol	8270D	1060	1660	64	1080	1660	65	29-97	2	30
2,4,6-Trichlorophenol	8270D	1110	1660	67	1090	1660	66	26-97	2	30
2,4-Dichlorophenol	8270D	1090	1660	66	1010	1660	61	25-90	8	30
2,4-Dimethylphenol	8270D	958	1660	58	890	1660	54	26-89	7	30
2,4-Dinitrophenol	8270D	583 J	1660	35	588 J	1660	35	10-128	<1	30
2,4-Dinitrotoluene	8270D	1280	1660	77	1370	1660	82	30-111	6	30
2,6-Dinitrotoluene	8270D	1220	1660	73	1220	1660	73	28-105	<1	30
2-Chloronaphthalene	8270D	1010	1660	61	960	1660	58	21-88	5	30
2-Chlorophenol	8270D	876	1660	53	878	1660	53	18-87	<1	30
2-Methylnaphthalene	8270D	978	1660	59	932	1660	56	21-83	5	30
2-Methylphenol	8270D	902	1660	54	881	1660	53	22-86	2	30
2-Nitroaniline	8270D	988 J	1660	59	1050 J	1660	63	27-105	7	30
2-Nitrophenol	8270D	1080	1660	65	1020	1660	62	20-88	5	30
3- and 4-Methylphenol Coelution	8270D	967	1660	58	925	1660	56	27-92	4	30
3-Nitroaniline	8270D	805 J	1660	48	953 J	1660	57	27-98	17	30
4,6-Dinitro-2-methylphenol	8270D	913 J	1660	55	922 J	1660	56	11-96	2	30
4-Bromophenyl Phenyl Ether	8270D	968	1660	58	978	1660	59	25-96	2	30
4-Chloro-3-methylphenol	8270D	998	1660	60	1020	1660	61	29-92	2	30
4-Chloroaniline	8270D	500	1660	30	564	1660	34	21-72	13	30
4-Chlorophenyl Phenyl Ether	8270D	990	1660	60	1000	1660	60	25-92	<1	30
4-Nitroaniline	8270D	1270 J	1660	76	1360 J	1660	82	27-102	8	30
4-Nitrophenol	8270D	948 J	1660	57	1000 J	1660	60	10-130	5	30
Acenaphthene	8270D	1040	1660	63	1030	1660	62	25-92	2	30
Acenaphthylene	8270D	1090	1660	66	1090	1660	66	27-93	<1	30
Acetophenone	8270D	1690	3320	51	1650	3320	50	23-87	2	30
Anthracene	8270D	1090	1660	66	1160	1660	70	32-106	6	30
Benz(a)anthracene	8270D	1210	1660	73	1310	1660	79	33-109	8	30
Benzo(a)pyrene	8270D	1410	1660	85	1550	1660	93	34-115	9	30
Benzo(b)fluoranthene	8270D	1280	1660	77	1410	1660	85	31-107	10	30
Benzo(g,h,i)perylene	8270D	1460	1660	88	1530	1660	92	30-127	4	30
Benzo(k)fluoranthene	8270D	1360	1660	82	1500	1660	90	34-111	9	30

Client: Leader Professional Services, Inc. **Service Request:** R1911946
Project: Tonawanda Bisonite Paint **Date Analyzed:** 12/20/19
Sample Matrix: Soil

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/Kg
Basis: Dry

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ1914484-02			RQ1914484-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Biphenyl	8270D	974	1660	59	892	1660	54	26-88	9	30
2,2'-Oxybis(1-chloropropane)	8270D	719	1660	43	723	1660	44	10-82	2	30
Bis(2-chloroethoxy)methane	8270D	865	1660	52	833	1660	50	17-85	4	30
Bis(2-chloroethyl) Ether	8270D	757	1660	46	756	1660	46	10-79	<1	30
Bis(2-ethylhexyl) Phthalate	8270D	1210	1660	73	1320	1660	80	31-115	9	30
Butyl Benzyl Phthalate	8270D	1290	1660	77	1370	1660	83	31-115	8	30
Caprolactam	8270D	1140	1660	69	1140	1660	69	28-99	<1	30
Carbazole	8270D	1190	1660	72	1280	1660	77	23-129	7	30
Chrysene	8270D	1240	1660	74	1320	1660	80	34-108	8	30
Di-n-butyl Phthalate	8270D	1110	1660	67	1210	1660	73	33-114	9	30
Di-n-octyl Phthalate	8270D	1260	1660	76	1410	1660	85	32-116	11	30
Dibenz(a,h)anthracene	8270D	919	1660	55	1040	1660	63	23-122	14	30
Dibenzofuran	8270D	1100	1660	66	1100	1660	66	27-94	<1	30
Diethyl Phthalate	8270D	1070	1660	65	1150	1660	70	26-101	7	30
Dimethyl Phthalate	8270D	1070	1660	64	1120	1660	68	27-98	6	30
Fluoranthene	8270D	1140	1660	69	1230	1660	74	34-111	7	30
Fluorene	8270D	1110	1660	67	1140	1660	69	27-95	3	30
Hexachlorobenzene	8270D	1160	1660	70	1210	1660	73	30-104	4	30
Hexachlorobutadiene	8270D	1030	1660	62	1000	1660	61	10-142	2	30
Hexachlorocyclopentadiene	8270D	976	1660	59	940	1660	57	10-133	3	30
Hexachloroethane	8270D	754	1660	45	763	1660	46	10-129	2	30
Indeno(1,2,3-cd)pyrene	8270D	1470	1660	89	1540	1660	93	33-121	4	30
Isophorone	8270D	766	1660	46	743	1660	45	21-79	2	30
N-Nitrosodi-n-propylamine	8270D	804	1660	48	795	1660	48	15-78	<1	30
N-Nitrosodiphenylamine	8270D	1270	1660	77	1340	1660	81	29-108	5	30
Naphthalene	8270D	948	1660	57	921	1660	56	18-81	2	30
Nitrobenzene	8270D	850	1660	51	829	1660	50	14-80	2	30
Pentachlorophenol (PCP)	8270D	1110 J	1660	67	1150 J	1660	70	13-117	4	30
Phenanthrene	8270D	1100	1660	66	1170	1660	70	33-103	6	30
Phenol	8270D	961	1660	58	939	1660	57	10-144	2	30
Pyrene	8270D	1300	1660	78	1400	1660	84	33-111	7	30

Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Leader Professional Services, Inc. **Service Request:** R1911946
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY
Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Extraction Method: EPA 3541

Sample Name	Lab Code	Decachlorobiphenyl 10-145	Tetrachloro-m-xylene 10-123
SB6 3-4	R1911946-001	71	63
SB 6-8	R1911946-002	101	82
SB7 4-5	R1911946-003	98	70
SB7 6-8	R1911946-004	83	71
SB7 10-12	R1911946-005	77	47
SB1 1-2	R1911946-006	84	66
SB1 17-18	R1911946-007	84	47
SS-1	R1911946-008	215*	72
SS-2	R1911946-009	115	62
SS-3	R1911946-010	535*	58
SS-4	R1911946-011	353*	84
Method Blank	RQ1914442-01	60	56
Method Blank	RQ1914443-01	47	55
Method Blank	RQ1914443-01	66	59
Lab Control Sample	RQ1914442-02	90	84
Duplicate Lab Control Sample	RQ1914442-03	85	71
Lab Control Sample	RQ1914443-02	54	62
Lab Control Sample	RQ1914443-02	74	65
Duplicate Lab Control Sample	RQ1914443-03	58	70
Duplicate Lab Control Sample	RQ1914443-03	74	67

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914442-01	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	1.7 U	1.7	0.86	1	12/27/19 23:11	12/11/19	
4,4'-DDE	1.7 U	1.7	0.86	1	12/27/19 23:11	12/11/19	
4,4'-DDT	1.7 U	1.7	0.86	1	12/27/19 23:11	12/11/19	
Aldrin	1.7 U	1.7	0.86	1	12/27/19 23:11	12/11/19	
Dieldrin	1.7 U	1.7	0.86	1	12/27/19 23:11	12/11/19	
Endosulfan I	1.7 U	1.7	0.86	1	12/27/19 23:11	12/11/19	
Endosulfan II	1.7 U	1.7	0.86	1	12/27/19 23:11	12/11/19	
Endosulfan Sulfate	1.7 U	1.7	0.86	1	12/27/19 23:11	12/11/19	
Endrin	1.7 U	1.7	0.86	1	12/27/19 23:11	12/11/19	
Endrin Aldehyde	1.7 U	1.7	0.86	1	12/27/19 23:11	12/11/19	
Endrin Ketone	1.7 U	1.7	0.86	1	12/27/19 23:11	12/11/19	
Heptachlor	1.7 U	1.7	0.86	1	12/27/19 23:11	12/11/19	
Heptachlor Epoxide	1.7 U	1.7	0.86	1	12/27/19 23:11	12/11/19	
Methoxychlor	1.7 U	1.7	0.86	1	12/27/19 23:11	12/11/19	
Toxaphene	34 U	34	20	1	12/27/19 23:11	12/11/19	
alpha-BHC	1.7 U	1.7	0.86	1	12/27/19 23:11	12/11/19	
alpha-Chlordane	1.7 U	1.7	0.86	1	12/27/19 23:11	12/11/19	
beta-BHC	1.7 U	1.7	0.86	1	12/27/19 23:11	12/11/19	
delta-BHC	1.7 U	1.7	0.86	1	12/27/19 23:11	12/11/19	
gamma-BHC (Lindane)	1.7 U	1.7	0.86	1	12/27/19 23:11	12/11/19	
gamma-Chlordane	1.7 U	1.7	0.86	1	12/27/19 23:11	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	60	10 - 145	12/27/19 23:11	
Tetrachloro-m-xylene	56	10 - 123	12/27/19 23:11	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914443-01	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	1.7 U	1.7	0.84	1	12/12/19 02:58	12/11/19	
4,4'-DDE	1.7 U	1.7	0.84	1	12/12/19 02:58	12/11/19	
4,4'-DDT	1.7 U	1.7	0.84	1	12/12/19 02:58	12/11/19	
Aldrin	1.7 U	1.7	0.84	1	12/12/19 02:58	12/11/19	
Dieldrin	1.7 U	1.7	0.84	1	12/12/19 02:58	12/11/19	
Endosulfan I	1.7 U	1.7	0.84	1	12/12/19 02:58	12/11/19	
Endosulfan II	1.7 U	1.7	0.84	1	12/12/19 02:58	12/11/19	
Endosulfan Sulfate	1.7 U	1.7	0.84	1	12/12/19 02:58	12/11/19	
Endrin	1.7 U	1.7	0.84	1	12/12/19 02:58	12/11/19	
Endrin Aldehyde	1.7 U	1.7	0.84	1	12/12/19 02:58	12/11/19	
Endrin Ketone	1.7 U	1.7	0.84	1	12/12/19 02:58	12/11/19	
Heptachlor	1.7 U	1.7	0.84	1	12/12/19 02:58	12/11/19	
Heptachlor Epoxide	1.7 U	1.7	0.84	1	12/12/19 02:58	12/11/19	
Methoxychlor	1.7 U	1.7	0.84	1	12/12/19 02:58	12/11/19	
Toxaphene	33 U	33	19	1	12/12/19 02:58	12/11/19	
alpha-BHC	1.7 U	1.7	0.84	1	12/12/19 02:58	12/11/19	
alpha-Chlordane	1.7 U	1.7	0.84	1	12/12/19 02:58	12/11/19	
beta-BHC	1.7 U	1.7	0.84	1	12/12/19 02:58	12/11/19	
delta-BHC	1.7 U	1.7	0.84	1	12/12/19 02:58	12/11/19	
gamma-BHC (Lindane)	1.7 U	1.7	0.84	1	12/12/19 02:58	12/11/19	
gamma-Chlordane	1.7 U	1.7	0.84	1	12/12/19 02:58	12/11/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914443-01	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	47	10 - 145	12/12/19 02:58	
Tetrachloro-m-xylene	55	10 - 123	12/12/19 02:58	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914443-01	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	1.7 U	1.7	0.84	1	01/04/20 22:55	12/11/19	
4,4'-DDE	1.7 U	1.7	0.84	1	01/04/20 22:55	12/11/19	
4,4'-DDT	1.7 U	1.7	0.84	1	01/04/20 22:55	12/11/19	
Aldrin	1.7 U	1.7	0.84	1	01/04/20 22:55	12/11/19	
Dieldrin	1.7 U	1.7	0.84	1	01/04/20 22:55	12/11/19	
Endosulfan I	1.7 U	1.7	0.84	1	01/04/20 22:55	12/11/19	
Endosulfan II	1.7 U	1.7	0.84	1	01/04/20 22:55	12/11/19	
Endosulfan Sulfate	1.7 U	1.7	0.84	1	01/04/20 22:55	12/11/19	
Endrin	1.7 U	1.7	0.84	1	01/04/20 22:55	12/11/19	
Endrin Aldehyde	1.7 U	1.7	0.84	1	01/04/20 22:55	12/11/19	
Endrin Ketone	1.7 U	1.7	0.84	1	01/04/20 22:55	12/11/19	
Heptachlor	1.7 U	1.7	0.84	1	01/04/20 22:55	12/11/19	
Heptachlor Epoxide	1.7 U	1.7	0.84	1	01/04/20 22:55	12/11/19	
Methoxychlor	1.7 U	1.7	0.84	1	01/04/20 22:55	12/11/19	
Toxaphene	33 U	33	19	1	01/04/20 22:55	12/11/19	
alpha-BHC	1.7 U	1.7	0.84	1	01/04/20 22:55	12/11/19	
alpha-Chlordane	1.7 U	1.7	0.84	1	01/04/20 22:55	12/11/19	
beta-BHC	1.7 U	1.7	0.84	1	01/04/20 22:55	12/11/19	
delta-BHC	1.7 U	1.7	0.84	1	01/04/20 22:55	12/11/19	
gamma-BHC (Lindane)	1.7 U	1.7	0.84	1	01/04/20 22:55	12/11/19	
gamma-Chlordane	1.7 U	1.7	0.84	1	01/04/20 22:55	12/11/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914443-01	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	66	10 - 145	01/04/20 22:55	
Tetrachloro-m-xylene	59	10 - 123	01/04/20 22:55	

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

Service Request: R1911946
Date Analyzed: 12/27/19

Duplicate Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography

Units:ug/Kg
Basis: Dry

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ1914442-02			RQ1914442-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
4,4'-DDD	8081B	7.72	6.64	116	7.37	6.81	108	33-149	5	30
4,4'-DDE	8081B	6.28	6.64	95	5.91	6.81	87	38-147	6	30
4,4'-DDT	8081B	4.58	6.64	69	4.53	6.81	67	37-146	1	30
Aldrin	8081B	5.81	6.64	87	5.09	6.81	75	25-146	13	30
Dieldrin	8081B	6.09	6.64	92	5.73	6.81	84	40-140	6	30
Endosulfan I	8081B	5.76	6.64	87	5.39	6.81	79	35-116	7	30
Endosulfan II	8081B	6.12	6.64	92	5.88	6.81	86	39-122	4	30
Endosulfan Sulfate	8081B	5.89	6.64	89	5.63	6.81	83	31-132	4	30
Endrin	8081B	6.82	6.64	103	6.45	6.81	95	40-144	6	30
Endrin Aldehyde	8081B	1.73	6.64	26	1.74	6.81	25	10-109	<1	30
Endrin Ketone	8081B	5.54	6.64	83	5.37	6.81	79	38-122	3	30
Heptachlor	8081B	5.92	6.64	89	5.32	6.81	78	34-142	11	30
Heptachlor Epoxide	8081B	6.01	6.64	90	5.56	6.81	82	37-113	8	30
Methoxychlor	8081B	5.37	6.64	81	5.50	6.81	81	41-152	2	30
alpha-BHC	8081B	6.12	6.64	92	5.48	6.81	80	28-145	11	30
alpha-Chlordane	8081B	6.11	6.64	92	5.73	6.81	84	37-114	6	30
beta-BHC	8081B	6.08	6.64	92	5.64	6.81	83	38-144	8	30
delta-BHC	8081B	6.46	6.64	97	6.04	6.81	89	30-153	7	30
gamma-BHC (Lindane)	8081B	6.10	6.64	92	5.53	6.81	81	32-145	10	30
gamma-Chlordane	8081B	6.10	6.64	92	5.80	6.81	85	34-123	5	30

Client: Leader Professional Services, Inc. **Service Request:** R1911946
Project: Tonawanda Bisonite Paint **Date Analyzed:** 01/04/20
Sample Matrix: Soil

Duplicate Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography

Units:ug/Kg
Basis: Dry

	Lab Control Sample				Duplicate Lab Control Sample					
	RQ1914443-02				RQ1914443-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
4,4'-DDD	8081B	5.91	6.87	86	5.69	6.48	88	33-149	4	30
4,4'-DDE	8081B	5.37	6.87	78	5.38	6.48	83	38-147	<1	30
4,4'-DDT	8081B	5.46	6.87	79	5.21	6.48	80	37-146	5	30
Aldrin	8081B	4.76	6.87	69	4.89	6.48	75	25-146	3	30
Dieldrin	8081B	5.07	6.87	74	5.03	6.48	78	40-140	<1	30
Endosulfan I	8081B	4.89	6.87	71	4.87	6.48	75	35-116	<1	30
Endosulfan II	8081B	5.09	6.87	74	4.97	6.48	77	39-122	3	30
Endosulfan Sulfate	8081B	4.94	6.87	72	4.90	6.48	76	31-132	<1	30
Endrin	8081B	5.34	6.87	78	5.27	6.48	81	40-144	1	30
Endrin Aldehyde	8081B	1.8 U	6.87	0 *	0.84 U	6.48	0 *	10-109	NC	30
Endrin Ketone	8081B	5.08	6.87	74	5.07	6.48	78	38-122	<1	30
Heptachlor	8081B	4.89	6.87	71	4.96	6.48	76	34-142	1	30
Heptachlor Epoxide	8081B	4.96	6.87	72	4.97	6.48	77	37-113	<1	30
Methoxychlor	8081B	5.33	6.87	78	5.29	6.48	82	41-152	<1	30
alpha-BHC	8081B	4.99	6.87	73	5.06	6.48	78	28-145	2	30
alpha-Chlordane	8081B	5.04	6.87	73	5.05	6.48	78	37-114	<1	30
beta-BHC	8081B	4.91	6.87	72	4.95	6.48	76	38-144	<1	30
delta-BHC	8081B	5.20	6.87	76	5.23	6.48	81	30-153	<1	30
gamma-BHC (Lindane)	8081B	4.94	6.87	72	5.04	6.48	78	32-145	2	30
gamma-Chlordane	8081B	5.06	6.87	74	5.13	6.48	79	34-123	1	30

Client: Leader Professional Services, Inc. **Service Request:** R1911946
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY
Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Extraction Method: EPA 3541

Sample Name	Lab Code	Decachlorobiphenyl 22-128	Tetrachloro-m-xylene 14-119
SB6 3-4	R1911946-001	87	77
SB 6-8	R1911946-002	97	88
SB7 4-5	R1911946-003	121	82
SB7 6-8	R1911946-004	91	74
SB7 10-12	R1911946-005	82	47
SB1 1-2	R1911946-006	83	65
SB1 17-18	R1911946-007	82	44
SS-1	R1911946-008	70	71
SS-2	R1911946-009	63	62
SS-3	R1911946-010	50	48
SS-4	R1911946-011	69	75
Method Blank	RQ1914442-01	60	65
Method Blank	RQ1914443-01	64	59
Lab Control Sample	RQ1914442-04	82	68
Duplicate Lab Control Sample	RQ1914442-05	66	36
Lab Control Sample	RQ1914443-04	82	82
Duplicate Lab Control Sample	RQ1914443-05	87	87

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914442-01	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	34 U	34	18	1	12/16/19 18:54	12/11/19	
Aroclor 1221	68 U	68	34	1	12/16/19 18:54	12/11/19	
Aroclor 1232	34 U	34	20	1	12/16/19 18:54	12/11/19	
Aroclor 1242	34 U	34	18	1	12/16/19 18:54	12/11/19	
Aroclor 1248	34 U	34	27	1	12/16/19 18:54	12/11/19	
Aroclor 1254	34 U	34	19	1	12/16/19 18:54	12/11/19	
Aroclor 1260	34 U	34	18	1	12/16/19 18:54	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	60	22 - 128	12/16/19 18:54	
Tetrachloro-m-xylene	65	14 - 119	12/16/19 18:54	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914443-01	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	33 U	33	17	1	12/12/19 18:59	12/11/19	
Aroclor 1221	66 U	66	33	1	12/12/19 18:59	12/11/19	
Aroclor 1232	33 U	33	20	1	12/12/19 18:59	12/11/19	
Aroclor 1242	33 U	33	17	1	12/12/19 18:59	12/11/19	
Aroclor 1248	33 U	33	26	1	12/12/19 18:59	12/11/19	
Aroclor 1254	33 U	33	19	1	12/12/19 18:59	12/11/19	
Aroclor 1260	33 U	33	17	1	12/12/19 18:59	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	64	22 - 128	12/12/19 18:59	
Tetrachloro-m-xylene	59	14 - 119	12/12/19 18:59	

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

Service Request: R1911946
Date Analyzed: 12/16/19

Duplicate Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs) by GC

Units:ug/Kg
Basis: Dry

			Lab Control Sample			Duplicate Lab Control Sample				
			RQ1914442-04			RQ1914442-05				
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	8082A	128	164	78	89.1	164	54	41-127	36*	30
Aroclor 1260	8082A	132	164	80	113	164	69	49-135	16	30

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QA/QC Report

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

Service Request: R1911946
Date Analyzed: 12/12/19

Duplicate Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs) by GC

Units:ug/Kg
Basis: Dry

			Lab Control Sample RQ1914443-04			Duplicate Lab Control Sample RQ1914443-05				
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	8082A	141	162	87	145	163	89	41-127	3	30
Aroclor 1260	8082A	134	162	82	140	163	86	49-135	5	30

Client: Leader Professional Services, Inc. **Service Request:** R1911946
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY
Chlorinated Herbicides by GC

Analysis Method: 8151A
Extraction Method: Method

Sample Name	Lab Code	2,4-Dichlorophenylacetic Acid 10-151
SB6 3-4	R1911946-001	51
SB 6-8	R1911946-002	57
SB7 4-5	R1911946-003	56
SB7 6-8	R1911946-004	68
SB7 10-12	R1911946-005	57
SB1 1-2	R1911946-006	51
SB1 17-18	R1911946-007	54
SS-1	R1911946-008	42
SS-2	R1911946-009	58
SS-3	R1911946-010	39
SS-4	R1911946-011	31
Method Blank	RQ1914622-01	47
Lab Control Sample	RQ1914622-02	60
Duplicate Lab Control Sample	RQ1914622-03	59

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914622-01	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	10 U	10	3.7	1	12/17/19 22:41	12/16/19	
2,4,5-TP	10 U	10	3.5	1	12/17/19 22:41	12/16/19	
2,4-D	10 U	10	5.7	1	12/17/19 22:41	12/16/19	
Dicamba	10 U	10	3.7	1	12/17/19 22:41	12/16/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	47	10 - 151	12/17/19 22:41	

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

Service Request: R1911946
Date Analyzed: 12/17/19

Duplicate Lab Control Sample Summary
Chlorinated Herbicides by GC

Units:ug/Kg
Basis: Dry

			Lab Control Sample			Duplicate Lab Control Sample				
			RQ1914622-02			RQ1914622-03				
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
2,4,5-T	8151A	34.3	50.0	69	32.3	50.0	65	19-127	6	30
2,4,5-TP	8151A	31.1	50.0	62	28.0	50.0	56	18-122	10	30
2,4-D	8151A	31.2	50.0	62	29.2	50.0	58	24-165	7	30
Dicamba	8151A	26.9	50.0	54	24.2	50.0	48	26-128	10	30

Metals

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

METALS

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BLANKS

Contract: R1911946

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: SB6 3-4

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): MG/KG

Analyte	Initial Calib. Blank ug/L	C	Continuing Calibration Blank ug/L 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum	120.00	U	120.00	U	120.00	U	120.00	U	12.000	U	P
Antimony	5.40	U	5.40	U	5.40	U	5.40	U	0.540	U	P
Arsenic	7.00	U	7.00	U	7.00	U	7.00	U	0.700	U	P
Barium	9.70	U	9.70	U	9.70	U	9.70	U	0.970	U	P
Beryllium	0.29	U	0.29	U	0.29	U	0.29	U	0.029	U	P
Cadmium	0.73	U	0.73	U	0.73	U	0.73	U	0.073	U	P
Mercury	0.035	U	0.035	U	0.035	U	0.035	U	0.006	U	CV
Calcium	320.00	U	320.00	U	320.00	U	320.00	U	32.000	U	P
Chromium	3.50	U	3.50	U	3.50	U	3.50	U	0.350	U	P
Cobalt	1.90	U	1.90	U	1.90	U	1.90	U	0.190	U	P
Copper	6.30	U	6.30	U	6.30	U	6.30	U	0.630	U	P
Iron	130.00	U	130.00	U	130.00	U	130.00	U	13.000	U	P
Lead	4.00	U	4.00	U	4.00	U	4.00	U	0.400	U	P
Magnesium	130.00	U	130.00	U	130.00	U	130.00	U	13.000	U	P
Manganese	15.00	U	15.00	U	15.00	U	15.00	U	1.500	U	P
Nickel	6.60	U	6.60	U	6.60	U	6.60	U	0.660	U	P
Potassium	96.00	U	96.00	U	96.00	U	96.00	U	9.600	U	P
Selenium	5.40	U	5.40	U	5.40	U	5.40	U	0.540	U	P
Silver	0.71	U	0.71	U	0.71	U	0.71	U	0.071	U	P
Sodium	520.00	U	520.00	U	520.00	U	520.00	U	52.000	U	P
Thallium	6.50	U	6.50	U	6.50	U	6.50	U	0.650	U	P
Vanadium	7.10	U	7.10	U	7.10	U	7.10	U	0.710	U	P
Zinc	14.00	U	14.00	U	14.00	U	14.00	U	1.400	U	P

Comments:

METALS

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BLANKS

Contract: R1911946

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: SB6 3-4

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	C	Continuing Calibration Blank ug/L 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum			120.00	U	120.00	U	120.00	U			P
Antimony			5.40	U	5.40	U	5.40	U			P
Arsenic			7.00	U	7.00	U	7.00	U			P
Barium			9.70	U	9.70	U	9.70	U			P
Beryllium			0.29	U	0.29	U	0.29	U			P
Cadmium			0.73	U	0.73	U	0.73	U			P
Mercury			0.035	U	0.035	U	0.035	U			CV
Calcium			320.00	U	320.00	U	320.00	U			P
Chromium			3.50	U	3.50	U	3.50	U			P
Cobalt			1.90	U	1.90	U	1.90	U			P
Copper			6.30	U	6.30	U	6.30	U			P
Iron			130.00	U	130.00	U	130.00	U			P
Lead			4.00	U	4.00	U	4.00	U			P
Magnesium			130.00	U	130.00	U	130.00	U			P
Manganese			15.00	U	15.00	U	15.00	U			P
Nickel			6.60	U	6.60	U	6.60	U			P
Potassium			96.00	U	96.00	U	96.00	U			P
Selenium			5.40	U	5.40	U	5.40	U			P
Silver			0.71	U	0.71	U	0.71	U			P
Sodium			520.00	U	520.00	U	520.00	U			P
Thallium			6.50	U	6.50	U	6.50	U			P
Vanadium			7.10	U	7.10	U	7.10	U			P
Zinc			14.00	U	14.00	U	14.00	U			P

Comments:

METALS

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BLANKS

Contract: R1911946

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: SB6 3-4

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	C	Continuing Calibration Blank ug/L 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum			120.00	U	120.00	U	120.00	U			P
Antimony			5.40	U	5.40	U	5.40	U			P
Arsenic			7.00	U	7.00	U	7.00	U			P
Barium			9.70	U	9.70	U	9.70	U			P
Beryllium			0.29	U	0.29	U	0.29	U			P
Cadmium			0.73	U	0.73	U	0.73	U			P
Calcium			320.00	U	320.00	U	320.00	U			P
Chromium			3.50	U	3.50	U	3.50	U			P
Cobalt			1.90	U	1.90	U	1.90	U			P
Copper			6.30	U	6.30	U	6.30	U			P
Iron			130.00	U	130.00	U	130.00	U			P
Lead			4.00	U	4.00	U	4.00	U			P
Magnesium			130.00	U	130.00	U	130.00	U			P
Manganese			15.00	U	15.00	U	15.00	U			P
Nickel			6.60	U	6.60	U	6.60	U			P
Potassium			96.00	U	96.00	U	96.00	U			P
Selenium			5.40	U	5.40	U	5.40	U			P
Silver			0.71	U	0.71	U	0.71	U			P
Sodium			520.00	U	520.00	U	520.00	U			P
Thallium			6.50	U	6.50	U	6.50	U			P
Vanadium			7.10	U	7.10	U	7.10	U			P
Zinc			14.00	U	14.00	U	14.00	U			P

Comments:

METALS

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LABORATORY CONTROL SAMPLE

Contract: R1911946

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: SB6 3-4

Solid LCS Source: CPI

Aqueous LCS Source:

Analyte	Aqueous (ug/L			Solid (mg/K				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum				200	193.45		160 240	97
Antimony				50	46.37		40 60	93
Arsenic				4	3.52		3.2 4.8	88
Barium				200	203.69		160 240	102
Beryllium				5	4.93		4 6	99
Cadmium				5	5.00		4 6	100
Mercury				0.166	0.139		80 120	84
Calcium				200	182.59		160 240	91
Chromium				20	20.22		16 24	101
Cobalt				50	51.28		40 60	103
Copper				25	24.96		20 30	100
Iron				100	107.85		80 120	108
Lead				50	48.61		40 60	97
Magnesium				200	188.75		160 240	94
Manganese				50	49.58		40 60	99
Nickel				50	48.71		40 60	97
Potassium				2000	1943.53		1600 2400	97
Selenium				101	97.62		80.8 121	97
Silver				5	4.90		4 6	98
Sodium				2000	1921.25		1600 2400	96
Thallium				200	186.20		160 240	93
Vanadium				50	49.86		40 60	100
Zinc				50	47.45		40 60	95

Comments: _____

General Chemistry

ALS Environmental—Rochester Laboratory
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Phone (585) 288-5380 Fax (585) 288-8475
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Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	Dry
Lab Code:	R1911946-MB1		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	0.30 U	mg/Kg	0.30	0.05	1	12/13/19 17:23	12/12/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	Dry
Lab Code:	R1911946-MB2		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	**0.11 J**	mg/Kg	0.30	0.05	1	12/13/19 17:49	12/12/19	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19
Sample Matrix:	Soil	**Date Received:**	12/05/19
		Date Analyzed:	12/13/19
		Date Extracted:	12/12/19

Duplicate Matrix Spike Summary
Cyanide, Total

Sample Name:	SB7 6-8	**Units:**	mg/Kg
Lab Code:	R1911946-004	**Basis:**	Dry
Analysis Method:	9012B		
Prep Method:	Method		

		Matrix Spike R1911946-004MS			Duplicate Matrix Spike R1911946-004DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Cyanide, Total	1.34	2.38	3.76	28	2.32	3.58	27	10-159	2	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19
Sample Matrix:	Soil	**Date Received:**	12/05/19
		Date Analyzed:	12/13/19
		Date Extracted:	12/12/19

Duplicate Matrix Spike Summary
Cyanide, Total

Sample Name:	SS-2	**Units:**	mg/Kg
Lab Code:	R1911946-009	**Basis:**	Dry
Analysis Method:	9012B		
Prep Method:	Method		

		Matrix Spike			Duplicate Matrix Spike					
		R1911946-009MS			R1911946-009DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Cyanide, Total	0.59 B	5.33	5.80	82	5.26	5.64	83	10-159	1	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911946
Project	Tonawanda Bisonite Paint	**Date Collected:**	12/04/19
Sample Matrix:	Soil	**Date Received:**	12/05/19
		Date Analyzed:	12/11/19

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	SS-2	**Units:**	Percent
Lab Code:	R1911946-009	**Basis:**	As Received

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Sample R1911946-009DUP Result	Average	RPD	RPD Limit
Total Solids	ALS SOP	-	-	50.5	52.9	51.7	5	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

Service Request: R1911946
Date Analyzed: 12/13/19

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/Kg
Basis: Dry

Lab Control Sample
R1911946-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Cyanide, Total	9012B	3.08	3.00	103	85-115

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

Service Request: R1911946
Date Analyzed: 12/13/19

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/Kg
Basis: Dry

Lab Control Sample
R1911946-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Cyanide, Total	9012B	18.3	18.0	101	85-115

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

Service Request: R1911946
Date Analyzed: 12/13/19

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/Kg
Basis: Dry

Lab Control Sample
R1911946-LCS3

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Cyanide, Total	9012B	2.76	3.00	92	85-115

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

Service Request: R1911946
Date Analyzed: 12/13/19

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/Kg
Basis: Dry

Lab Control Sample
R1911946-LCS4

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Cyanide, Total	9012B	16.1	18.0	89	85-115

January 06, 2020 Service Request No:R1911947

Mr. Peter von Schondorf
Leader Professional Services, Inc.
271 Marsh Road
Suite 2
Pittsford, NY 14534

Laboratory Results for: Tonawanda Bisonite Paint

Dear Mr.von Schondorf,

Enclosed are the results of the sample(s) submitted to our laboratory December 05, 2019
For your reference, these analyses have been assigned our service request number **R1911947.**

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Janice Jaeger
Project Manager

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Narrative Documents

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Phone (585) 288-5380 Fax (585) 288-8475
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ALS Environmental

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

Service Request: R1911947
Date Received: 12/05/2019

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

Nine soil samples were received for analysis at ALS Environmental on 12/05/2019. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Semivolatiles by GC/MS:

Method 8270D, 12/23/2019: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8270D, 12/23/2019: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8270D, 01/04/2020: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8270D, 01/04/2020: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8270D, 01/04/2020: The control limit was exceeded for one or more surrogates in the Continuing Calibration Verification (CCV). The surrogates were within acceptance limits for the associated field samples. The data quality was not significantly affected and no further corrective action was taken.

Method 8270D, R1911947-007: The control limits were exceeded for one or more surrogates in the sample(s). Since the exceedance may indicate a potential bias in the analytical batch, all associated field samples were re-extracted and reanalyzed outside of holding time. The surrogates met control limits for the reanalysis. Since the results for the field samples were comparable for both determinations, the exceedance in the initial analysis was likely restricted to the surrogate recovery. Therefore, the results from the original analysis are reported and flagged.

Semivoa GC:

Method 8081B, 01/03/2020: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Endrin Aldehyde has been reported as zero percent recovery in the MS/MSD due to a limitation in LIMs. Endrin Aldehyde was detected at 29% and 25% recovery, respectively, within laboratory limits. The MS/MSD is acceptable and should not be flagged on the summary form.

Approved by _____ Date 01/06/2020

Alpha-BHC has been reported as zero percent recovery in the MS due to a limitation in LIMs. Alpha-BHC was detected at 57% recovery, respectively, within laboratory limits. The MS is acceptable and should not be flagged on the summary form.

Method 8081B, 01/03/2020: The upper control criterion was exceeded for one or more analytes in the Matrix Spike Duplicate Sample (LCSD). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Endrin Aldehyde has been reported as zero percent recovery in the LCS/LCSD due to a limitation in LIMs. Endrin Aldehyde was detected at 11% and 10% recovery, respectively, within laboratory limits. The LCS/LCSD is acceptable and should not be flagged on the summary form.
Method 8082A, 12/12/2019: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.
Method 8151A, 12/18/2019: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Metals:

Method 6010C, R1911947-004: The Relative Percent Difference (RPD) for the serial dilution test of one or more analytes was above the method control limits which indicates the presence of physical or chemical interference for analysis of these analytes in this sample matrix. Exceedances have been flagged.

General Chemistry:

No significant anomalies were noted with this analysis.

Volatiles by GC/MS:

No significant anomalies were noted with this analysis.

Approved by _____ Date 01/06/2020

Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Leader Professional Services, Inc. **Service Request:**R1911947

Project: Tonawanda Bisonite Paint

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R1911947-001	SB8 1-2	12/5/2019	0915
R1911947-002	SB8 6-8	12/5/2019	0940
R1911947-003	SB11 1-2	12/5/2019	
R1911947-004	SB11 6-8	12/5/2019	
R1911947-005	SB11 6-8 Dup	12/5/2019	
R1911947-006	SB9 2-4	12/5/2019	1140
R1911947-007	SB9 11-13	12/5/2019	1150
R1911947-008	SB10 2-4	12/5/2019	1230
R1911947-009	SB10 12-14	12/5/2019	1230

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

SR# _____

001, 003

T058814

ALS Environmental

1565 Jefferson Road, Bldg 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 / FAX (585) 288-8475
www.alsglobal.com

Project Name: Tonawanda Bisonite Paint	
Project Number:	Report To: Peter von Schondorf
Company / Address: Leader Professional Services, Inc. 271 Marsh Road Suite 2 Pittsford NY, 14534	
Phone # 585-248-2413	FAX #
Sampler Signature	Sampler Printed Name: Rob Murphy

CLIENT SAMPLE ID	SAMPLING Date	Time	Matrix (Circle One)	NUMBER OF CONTAINERS	7D: 8081B / Pest OC	7D: 8082A / PCB	7D: 8151A / HERB	7D: 8270D / SVO	7D: 8270D SIM / 1,4-Dioxane	7D: PFC/537M / PFAS	14D: 8260C / VOC FP	14D: 9012B / CN Tot	28D: 7470A / Hg T	180D: 6010C / TAL Metals	Remarks
SB8 1-2	12/5/2019	9:15	(Soil) / Water	10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
SB8 6-8	12/5/19	9:41	(Soil) / Water	7	✓	✓	✓	✓			✓	✓	✓	✓	
SB11 1-2	12/5/19		(Soil) / Water	7	✓	✓	✓	✓			✓	✓	✓	✓	
SB11 6-8	12/5/19		(Soil) / Water	7	✓	✓	✓	✓			✓	✓	✓	✓	
SB11 6-8 Dup	12/5/19		(Soil) / Water	7	✓	✓	✓	✓			✓	✓	✓	✓	
SB11 6-8 Spike	12/5/19		(Soil) / Water	7	✓	✓	✓	✓			✓	✓	✓	✓	
SB11 6-8 Spike Dup	12/5/19		(Soil) / Water	7	✓	✓	✓	✓			✓	✓	✓	✓	
~~Rinse~~	~~12/5/19~~		~~(Soil) / Water~~	~~7~~	✓	✓									
			Soil / Water												
			Soil / Water												

Special Instructions/Comments:

TAL Metals:
Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, Sb, Se, Tl, V, Zn

Login PFAS / 1,4-Dioxane on Separate SDG

Turnaround Requirements

___ RUSH (SURCHARGES APPLY)

✓ Standard

_____ REQUESTED FAX DATE

_____ Requested Report Date

Report Requirements

___ I. Results Only
___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
X IV. Data Validation Report with Raw Data

EData X Yes ____ No
NYSDEC Equis v.4

Invoice Information

P.O.# 351987

Bill To: _____

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: Rob Murphy	Printed Name: Daniel Mack	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Leader	Firm: ALS	Firm	Firm	Firm	Firm
Date/Time: 12/5/19 1705	Date/Time: 12/5/19 1705	Date/Time	Date/Time	Date/Time	Date/Time

R1911947
Leader Professional Services, Inc.
Tonawanda Bisonite Paint
5

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

SR# T058814

ALS Environmental

1565 Jefferson Road, Bldg 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5330 / FAX (585) 288-8475
www.alsglobal.com

001, 003

Project Name: Tonawanda Bisonite Paint	
Project Number:	Report To: Peter von Schondorf
Company / Address: Leader Professional Services, Inc. 271 Marsh Road Suite 2 Pittsford NY, 14534	
Phone # 585-248-2413	FAX #
Sampler Signature	Sampler Printed Name: Rob Murphy

CLIENT SAMPLE ID	SAMPLING Date	Time	Matrix (Circle One)	NUMBER OF CONTAINERS	8081B / Pest OC (7D)	8082A / PCB (7D)	8151A / HERB (7D)	8270D / SVO (7D)	8270D SIM / 1,4-Dioxane (7D)	PFC/537M / PFAS (7D)	8260C / VOC FP (14D)	9012B / CN Tot (28D)	7470A / Hg T (28D)	6010C / TAL Metals (180D)	Remarks
SB9 2-4	12/5/19	11:10	Soil / Water	10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
SB9 11-13	12/5/19	11:50	Soil / Water	7	✓	✓	✓	✓			✓	✓	✓	✓	
SB10 2-4	12/5/19	12:30	Soil / Water	7	✓	✓	✓	✓			✓	✓	✓	✓	
SB10 12-14	12/5/19	12:30	Soil / Water	7	✓	✓	✓	✓			✓	✓	✓	✓	
			Soil / Water												
			Soil / Water												
			Soil / Water												
			Soil / Water												
			Soil / Water												
			Soil / Water												

Special Instructions/Comments:

TAL Metals:
Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, Sb, Se, Tl, V, Zn

Login PFAS / 1,4-Dioxane on Separate SDG

Turnaround Requirements

___ RUSH (SURCHARGES APPLY)

✓ Standard

REQUESTED FAX DATE

Requested Report Date

Report Requirements

___ I. Results Only
___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Cilibration Summaries
X IV. Data Validation Report with Raw Data

EData X Yes ___ No
NYSDEC Equis v.4

Invoice Information

P.O.# 235198 A

Bill To:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: Rob Murphy	Printed Name: David Wark	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Leader	Firm: ALS	Firm	Firm	Firm	Firm
Date/Time: 12/5/19 1705	Date/Time: 12/5/19 1705	Date/Time	Date/Time	Date/Time	

R1911947 5
Leader Professional Services, Inc.
Tonawanda Bisonite Paint

Cooler Receipt and Preservation Check Form

R1911947 5
Leader Professional Services, Inc.
Tonawanda Bisonite Paint

Project/Client Leader Folder Number

Cooler received on 12/5/19 by: dh

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	Y (N)	5a	**Perchlorate** samples have required headspace?	Y N (NA)
2	**Custody papers** properly completed (ink, signed)?	(Y) N	5b	Did (VOA) vials, Alk,or Sulfide have sig* **bubbles**?	(Y) N NA
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N	6	Where did the bottles originate?	ALS/ROC CLIENT
4	Circle: (Wet Ice) **Dry Ice Gel packs** present?	(Y) N	7	Soil VOA received as: Bulk Encore 5035set	NA

3. Temperature Readings Date: 12/5/19 Time: 1740 ID: IR#7 IR#10 From: Temp Blank Sample Bottle

Observed Temp (°C)	3.1°	3.0	19.9	19.1°	4.6°	2.8°	5.8°
Within 0-6°C?	(Y) N	(Y) N	Y (N)	Y (N)	(Y) N	(Y) N	(Y) N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: Ice melted Poorly Packed (described below) (Same Day Rule)

&Client Approval to Run Samples: Standing Approval Client aware at drop-off Client notified by:

All samples held in storage location: Rack by dh on 12/5/19 at 1740
5035 samples placed in storage location: by on at

Cooler Breakdown/Preservation Check**: Date: 12/9/19 Time: 1610 by: dh

9. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
10. Did all bottle labels and tags agree with custody papers? (YES) NO
11. Were correct containers used for the tests indicated? (YES) NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? (YES) NO N/A
13. Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized Tedlar® Bags Inflated (N/A)

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2		HNO_3								
≤2		H_2SO_4								
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-			**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).			
		HCl	**	**						

Bottle lot numbers: 082619-1SR, 090919-1TW
Explain all Discrepancies/ Other Comments:
** 1 vial for the trip blank.

HPROD	BULK
HTR	FLDT
(SUB)	HGFB
ALS	LL3541

Labels secondary reviewed by: dh
PC Secondary Review: MP

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: Leader Professional Services, Inc. **Service Request:** R1911947
Project: Tonawanda Bisonite Paint

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R1911947-001.01					
	8081B,8082A,8270D,8151A				
		12/9/2019	1711	SMO / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
		12/11/2019	0843	In Lab / KSERCU	
		12/11/2019	1455	R-002 / KSERCU	
		12/12/2019	0707	In Lab / AFELSER	
		12/12/2019	1209	R-002 / VSTAUFFER	
		12/16/2019	0721	In Lab / VSTAUFFER	
		12/16/2019	1640	R-002 / KSERCU	
R1911947-001.02					
	8260C				
		12/9/2019	1711	SMO / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
		12/9/2019	1714	F-09 / GLAFORCE	
		12/12/2019	1155	In Lab / FNAEGLER	
		12/12/2019	1205	F-09 / FNAEGLER	
R1911947-001.03					
	9012B				
		12/9/2019	1711	SMO / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
R1911947-001.04					
	6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,7471B,6010C,6010C,6010C,6010C,6010C,6010C,6010C				
		12/9/2019	1711	SMO / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
		12/12/2019	1135	In Lab / AKONZEL	
		12/13/2019	1524	R-A01 / AKONZEL	
R1911947-001.05					
	ALS SOP				
		12/9/2019	1713	SMO / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
R1911947-001.06					
		12/9/2019	1715	SMO / GLAFORCE	
R1911947-001.07					
		12/9/2019	1715	SMO / GLAFORCE	
R1911947-002.01					
	8151A,8081B,8082A,8270D				
		12/9/2019	1711	SMO / GLAFORCE	

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: Leader Professional Services, Inc. **Service Request:** R1911947
Project: Tonawanda Bisonite Paint

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	8151A,8081B,8082A,8270D				
		12/9/2019	1714	R-002 / GLAFORCE	
		12/11/2019	0843	In Lab / KSERCU	
		12/11/2019	1455	R-002 / KSERCU	
		12/12/2019	0707	In Lab / AFELSER	
		12/12/2019	1209	R-002 / VSTAUFFER	
		12/16/2019	0720	In Lab / VSTAUFFER	
		12/16/2019	1640	R-002 / KSERCU	
R1911947-002.02					
	8260C,8260C				
		12/9/2019	1711	SMO / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
		12/9/2019	1714	F-09 / GLAFORCE	
		12/12/2019	1155	In Lab / FNAEGLER	
		12/12/2019	1205	F-09 / FNAEGLER	
R1911947-002.03					
	9012B				
		12/9/2019	1711	SMO / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
R1911947-002.04					
	7471B,6010C				
		12/9/2019	1711	SMO / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
		12/12/2019	1135	In Lab / AKONZEL	
		12/13/2019	1524	R-A01 / AKONZEL	
R1911947-002.05					
	ALS SOP				
		12/9/2019	1713	SMO / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
R1911947-002.06					
		12/9/2019	1715	SMO / GLAFORCE	
R1911947-002.07					
		12/9/2019	1715	SMO / GLAFORCE	
		12/16/2019	1410	In Lab / FNAEGLER	
		12/16/2019	1420	F-09 / FNAEGLER	
R1911947-003.01					
	8151A,8081B,8082A,8270D				
		12/9/2019	1711	SMO / GLAFORCE	

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: Leader Professional Services, Inc. **Service Request:** R1911947
Project: Tonawanda Bisonite Paint

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	8151A,8081B,8082A,8270D				
		12/9/2019	1714	R-002 / GLAFORCE	
		12/11/2019	0843	In Lab / KSERCU	
		12/11/2019	1455	R-002 / KSERCU	
		12/12/2019	0707	In Lab / AFELSER	
		12/12/2019	1209	R-002 / VSTAUFFER	
		12/16/2019	0720	In Lab / VSTAUFFER	
		12/16/2019	1640	R-002 / KSERCU	
R1911947-003.02					
	8260C,8260C				
		12/9/2019	1711	SMO / GLAFORCE	
		12/9/2019	1714	F-09 / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
		12/12/2019	1155	In Lab / FNAEGLER	
		12/12/2019	1205	F-09 / FNAEGLER	
R1911947-003.03					
	9012B				
		12/9/2019	1711	SMO / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
R1911947-003.04					
	7471B,6010C				
		12/9/2019	1711	SMO / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
		12/12/2019	1135	In Lab / AKONZEL	
		12/13/2019	1524	R-A01 / AKONZEL	
R1911947-003.05					
	ALS SOP				
		12/9/2019	1713	SMO / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
R1911947-003.06					
		12/9/2019	1715	SMO / GLAFORCE	
R1911947-003.07					
		12/9/2019	1715	SMO / GLAFORCE	
		12/16/2019	1410	In Lab / FNAEGLER	
		12/16/2019	1420	F-09 / FNAEGLER	
R1911947-004.01					
	8151A,8081B,8082A,8270D				
		12/9/2019	1711	SMO / GLAFORCE	

Client: Leader Professional Services, Inc. **Service Request:** R1911947
Project: Tonawanda Bisonite Paint

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	8151A,8081B,8082A,8270D				
		12/9/2019	1714	R-002 / GLAFORCE	
		12/12/2019	0707	In Lab / AFELSER	
		12/12/2019	1209	R-002 / VSTAUFFER	
		12/16/2019	0720	In Lab / VSTAUFFER	
		12/16/2019	1640	R-002 / KSERCU	
R1911947-004.03					
	9012B				
		12/9/2019	1711	SMO / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
R1911947-004.04					
	7471B				
		12/9/2019	1711	SMO / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
		12/11/2019	1559	R-A01 / AKONZEL	
R1911947-004.05					
	8260C				
		12/9/2019	1711	SMO / GLAFORCE	
		12/9/2019	1714	F-09 / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
		12/12/2019	1155	In Lab / FNAEGLER	
		12/12/2019	1205	F-09 / FNAEGLER	
R1911947-004.06					
		12/9/2019	1711	SMO / GLAFORCE	
		12/9/2019	1714	F-09 / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
R1911947-004.07					
		12/9/2019	1711	SMO / GLAFORCE	
		12/9/2019	1714	F-09 / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
R1911947-004.08					
		12/9/2019	1711	SMO / GLAFORCE	
		12/9/2019	1714	F-09 / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
R1911947-004.09					
		12/9/2019	1711	SMO / GLAFORCE	
		12/9/2019	1714	F-09 / GLAFORCE	

Client: Leader Professional Services, Inc. **Service Request:** R1911947
Project: Tonawanda Bisonite Paint

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		12/9/2019	1714	R-002 / GLAFORCE	
R1911947-004.10					
		12/9/2019	1711	SMO / GLAFORCE	
		12/9/2019	1714	F-09 / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
R1911947-004.11					
	6010C,6010C				
		12/9/2019	1712	SMO / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
		12/12/2019	1135	In Lab / AKONZEL	
		12/13/2019	1524	R-A01 / AKONZEL	
R1911947-004.12					
		12/9/2019	1712	SMO / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
R1911947-004.13					
		12/9/2019	1712	SMO / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
		12/16/2019	0721	In Lab / VSTAUFFER	
		12/16/2019	1640	R-002 / KSERCU	
R1911947-004.14					
	ALS SOP				
		12/9/2019	1713	SMO / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
R1911947-004.15					
		12/9/2019	1714	SMO / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
R1911947-005.01					
	8151A,8081B,8082A,8270D				
		12/9/2019	1711	SMO / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
		12/12/2019	0707	In Lab / AFELSER	
		12/12/2019	1209	R-002 / VSTAUFFER	
R1911947-005.03					
	9012B				
		12/9/2019	1711	SMO / GLAFORCE	

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Internal Chain of Custody Report

Client: Leader Professional Services, Inc. **Service Request:** R1911947
Project: Tonawanda Bisonite Paint

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	9012B				
		12/9/2019	1714	R-002 / GLAFORCE	
R1911947-005.04					
	7471B,6010C				
		12/9/2019	1711	SMO / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
		12/12/2019	1134	In Lab / AKONZEL	
		12/13/2019	1524	R-A01 / AKONZEL	
R1911947-005.05					
	8260C				
		12/9/2019	1713	SMO / GLAFORCE	
		12/9/2019	1714	F-09 / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
		12/12/2019	1155	In Lab / FNAEGLER	
		12/12/2019	1205	F-09 / FNAEGLER	
R1911947-005.06					
		12/9/2019	1713	SMO / GLAFORCE	
		12/9/2019	1714	F-09 / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
R1911947-005.07					
		12/9/2019	1713	SMO / GLAFORCE	
		12/9/2019	1714	F-09 / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
R1911947-005.08					
		12/9/2019	1713	SMO / GLAFORCE	
		12/9/2019	1714	F-09 / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
R1911947-005.09					
		12/9/2019	1713	SMO / GLAFORCE	
		12/9/2019	1714	F-09 / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
R1911947-005.10					
		12/9/2019	1713	SMO / GLAFORCE	
		12/9/2019	1714	F-09 / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	

Internal Chain of Custody Report

Client: Leader Professional Services, Inc. **Service Request:** R1911947
Project: Tonawanda Bisonite Paint

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R1911947-005.11					
		12/9/2019	1713	SMO / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
		12/11/2019	1558	R-A01 / AKONZEL	
R1911947-005.12					
		12/9/2019	1713	SMO / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
R1911947-005.13					
		12/9/2019	1713	SMO / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
		12/16/2019	0721	In Lab / VSTAUFFER	
		12/16/2019	1640	R-002 / KSERCU	
R1911947-005.14					
	ALS SOP				
		12/9/2019	1713	SMO / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
R1911947-005.15					
		12/9/2019	1714	SMO / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
R1911947-006.01					
	8151A,8081B,8082A,8270D				
		12/9/2019	1711	SMO / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
		12/12/2019	0707	In Lab / AFELSER	
		12/12/2019	1209	R-002 / VSTAUFFER	
		12/16/2019	0721	In Lab / VSTAUFFER	
		12/16/2019	1640	R-002 / KSERCU	
R1911947-006.02					
	8260C				
		12/9/2019	1711	SMO / GLAFORCE	
		12/9/2019	1714	F-09 / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
		12/12/2019	1155	In Lab / FNAEGLER	
		12/12/2019	1205	F-09 / FNAEGLER	
R1911947-006.03					
	9012B				
		12/9/2019	1711	SMO / GLAFORCE	

Client: Leader Professional Services, Inc. **Service Request:** R1911947
Project: Tonawanda Bisonite Paint

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	9012B				
		12/9/2019	1714	R-002 / GLAFORCE	
R1911947-006.04					
	7471B,6010C				
		12/9/2019	1711	SMO / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
		12/12/2019	1134	In Lab / AKONZEL	
		12/13/2019	1524	R-A01 / AKONZEL	
R1911947-006.05					
	ALS SOP				
		12/9/2019	1713	SMO / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
R1911947-006.06					
		12/9/2019	1715	SMO / GLAFORCE	
R1911947-006.07					
		12/9/2019	1715	SMO / GLAFORCE	
R1911947-007.01					
	8270D,8151A,8081B,8082A,8270D				
		12/9/2019	1711	SMO / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
		12/12/2019	0707	In Lab / AFELSER	
		12/12/2019	1209	R-002 / VSTAUFFER	
		12/16/2019	0721	In Lab / VSTAUFFER	
		12/16/2019	1640	R-002 / KSERCU	
		12/30/2019	0913	In Lab / AFELSER	
		12/30/2019	1140	R-002 / AFELSER	
R1911947-007.02					
	8260C				
		12/9/2019	1711	SMO / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
		12/9/2019	1714	F-09 / GLAFORCE	
		12/12/2019	1155	In Lab / FNAEGLER	
		12/12/2019	1205	F-09 / FNAEGLER	
R1911947-007.03					
	9012B				
		12/9/2019	1711	SMO / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
R1911947-007.04					

Client: Leader Professional Services, Inc. **Service Request:** R1911947

Project: Tonawanda Bisonite Paint

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	7471B,6010C				
		12/9/2019	1711	SMO / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
		12/12/2019	1134	In Lab / AKONZEL	
		12/13/2019	1524	R-A01 / AKONZEL	
R1911947-007.05					
	ALS SOP				
		12/9/2019	1713	SMO / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
R1911947-007.06					
		12/9/2019	1715	SMO / GLAFORCE	
R1911947-007.07					
		12/9/2019	1715	SMO / GLAFORCE	
R1911947-008.01					
	8151A,8081B,8082A,8270D				
		12/9/2019	1711	SMO / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
		12/12/2019	0707	In Lab / AFELSER	
		12/12/2019	1209	R-002 / VSTAUFFER	
		12/16/2019	0721	In Lab / VSTAUFFER	
		12/16/2019	1639	R-002 / KSERCU	
R1911947-008.02					
	8260C				
		12/9/2019	1711	SMO / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
		12/9/2019	1714	F-09 / GLAFORCE	
		12/12/2019	1155	In Lab / FNAEGLER	
		12/12/2019	1205	F-09 / FNAEGLER	
R1911947-008.03					
	9012B				
		12/9/2019	1711	SMO / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
R1911947-008.04					
	7471B,6010C				
		12/9/2019	1711	SMO / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
		12/12/2019	1134	In Lab / AKONZEL	
		12/13/2019	1523	R-A01 / AKONZEL	

Client: Leader Professional Services, Inc. **Service Request:** R1911947

Project: Tonawanda Bisonite Paint

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R1911947-008.05					
	ALS SOP				
		12/9/2019	1713	SMO / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
R1911947-008.06					
		12/9/2019	1715	SMO / GLAFORCE	
R1911947-008.07					
		12/9/2019	1715	SMO / GLAFORCE	
R1911947-009.01					
	8151A,8081B,8082A,8270D				
		12/9/2019	1711	SMO / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
		12/12/2019	0707	In Lab / AFELSER	
		12/12/2019	1209	R-002 / VSTAUFFER	
		12/16/2019	0721	In Lab / VSTAUFFER	
		12/16/2019	1639	R-002 / KSERCU	
R1911947-009.02					
	8260C,8260C				
		12/9/2019	1711	SMO / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
		12/9/2019	1714	F-09 / GLAFORCE	
		12/12/2019	1155	In Lab / FNAEGLER	
		12/12/2019	1205	F-09 / FNAEGLER	
R1911947-009.03					
	9012B				
		12/9/2019	1711	SMO / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
R1911947-009.04					
	7471B,6010C				
		12/9/2019	1711	SMO / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
		12/12/2019	1134	In Lab / AKONZEL	
		12/13/2019	1523	R-A01 / AKONZEL	
R1911947-009.05					
	ALS SOP				
		12/9/2019	1713	SMO / GLAFORCE	
		12/9/2019	1714	R-002 / GLAFORCE	
R1911947-009.06					

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: Leader Professional Services, Inc. **Service Request:** R1911947
Project: Tonawanda Bisonite Paint

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		12/9/2019	1715	SMO / GLAFORCE	
R1911947-009.07					
		12/9/2019	1715	SMO / GLAFORCE	
		12/16/2019	1410	In Lab / FNAEGLER	
		12/16/2019	1420	F-09 / FNAEGLER	

Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
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www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.

J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).

B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.

E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.

E Organics- Concentration has exceeded the calibration range for that specific analysis.

D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.

* Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.

H Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.

Spike was diluted out.

\+ Correlation coefficient for MSA is <0.995.

N Inorganics- Matrix spike recovery was outside laboratory limits.

N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.

S Concentration has been determined using Method of Standard Additions (MSA).

W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.

P Concentration >40% difference between the two GC columns.

C Confirmed by GC/MS

Q DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).

X See Case Narrative for discussion.

MRL Method Reporting Limit. Also known as:
LOQ Limit of Quantitation (LOQ)
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.

MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).

LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.

ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

[1] Analyses were performed according to our laboratoryôs NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: Leader Professional Services, Inc. **Service Request:** R1911947
Project: Tonawanda Bisonite Paint

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
ALS SOP	Soil	Total Solids

Client: Leader Professional Services, Inc. **Service Request:** R1911947
Project: Tonawanda Bisonite Paint/

Sample Name: SB8 1-2 **Date Collected:** 12/5/19
Lab Code: R1911947-001 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
7471B	AKONZEL	KMCLAEN
8081B	BALLGEIER	JMISIUREWICZ
8082A	BALLGEIER	BALLGEIER
8151A	KSERCU	BALLGEIER
8260C		FNAEGLER
8270D	JMISIUREWICZ	JMISIUREWICZ
9012B	MROGERSON	MROGERSON
ALS SOP		GKNIGHT

Sample Name: SB8 6-8 **Date Collected:** 12/5/19
Lab Code: R1911947-002 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
7471B	AKONZEL	KMCLAEN
8081B	BALLGEIER	JMISIUREWICZ
8082A	BALLGEIER	BALLGEIER
8151A	KSERCU	BALLGEIER
8260C		FNAEGLER
8270D	JMISIUREWICZ	JMISIUREWICZ
9012B	MROGERSON	MROGERSON
ALS SOP		GKNIGHT

Sample Name: SB8 6-8 **Date Collected:** 12/5/19
Lab Code: R1911947-002.R01 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Client: Leader Professional Services, Inc. **Service Request:** R1911947
Project: Tonawanda Bisonite Paint/

Sample Name: SB11 1-2 **Date Collected:** 12/5/19
Lab Code: R1911947-003 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
7471B	AKONZEL	KMCLAEN
8081B	KSERCU	JMISIUREWICZ
8082A	KSERCU	BALLGEIER
8151A	KSERCU	BALLGEIER
8260C		FNAEGLER
8270D	JMISIUREWICZ	JMISIUREWICZ
9012B	MROGERSON	MROGERSON
ALS SOP		GKNIGHT

Sample Name: SB11 1-2 **Date Collected:** 12/5/19
Lab Code: R1911947-003.R01 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name: SB11 6-8 **Date Collected:** 12/5/19
Lab Code: R1911947-004 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
7471B	AKONZEL	KMCLAEN
8081B	KSERCU	JMISIUREWICZ
8082A	KSERCU	BALLGEIER
8151A	KSERCU	BALLGEIER
8260C		FNAEGLER
8270D	JMISIUREWICZ	JMISIUREWICZ
9012B	MROGERSON	MROGERSON
ALS SOP		GKNIGHT

Client: Leader Professional Services, Inc. **Service Request:** R1911947
Project: Tonawanda Bisonite Paint/

Sample Name: SB11 6-8 Dup **Date Collected:** 12/5/19
Lab Code: R1911947-005 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
7471B	AKONZEL	KMCLAEN
8081B	KSERCU	JMISIUREWICZ
8082A	KSERCU	BALLGEIER
8151A	KSERCU	BALLGEIER
8260C		FNAEGLER
8270D	JMISIUREWICZ	JMISIUREWICZ
9012B	MROGERSON	MROGERSON
ALS SOP		GKNIGHT

Sample Name: SB9 2-4 **Date Collected:** 12/5/19
Lab Code: R1911947-006 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
7471B	AKONZEL	KMCLAEN
8081B	KSERCU	JMISIUREWICZ
8082A	KSERCU	BALLGEIER
8151A	KSERCU	BALLGEIER
8260C		FNAEGLER
8270D	JMISIUREWICZ	JMISIUREWICZ
9012B	MROGERSON	MROGERSON
ALS SOP		GKNIGHT

Sample Name: SB9 11-13 **Date Collected:** 12/5/19
Lab Code: R1911947-007 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
7471B	AKONZEL	KMCLAEN

Client: Leader Professional Services, Inc. **Service Request:** R1911947
Project: Tonawanda Bisonite Paint/

Sample Name: SB9 11-13 **Date Collected:** 12/5/19
Lab Code: R1911947-007 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	JMISIUREWICZ
8082A	KSERCU	BALLGEIER
8151A	KSERCU	BALLGEIER
8260C		FNAEGLER
8270D	KSERCU	JMISIUREWICZ
9012B	MROGERSON	MROGERSON
ALS SOP		GKNIGHT

Sample Name: SB9 11-13 **Date Collected:** 12/5/19
Lab Code: R1911947-007.R01 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	JMISIUREWICZ	JMISIUREWICZ

Sample Name: SB10 2-4 **Date Collected:** 12/5/19
Lab Code: R1911947-008 **Date Received:** 12/5/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
7471B	AKONZEL	KMCLAEN
8081B	KSERCU	JMISIUREWICZ
8082A	KSERCU	BALLGEIER
8151A	KSERCU	BALLGEIER
8260C		FNAEGLER
8270D	JMISIUREWICZ	JMISIUREWICZ
9012B	MROGERSON	MROGERSON
ALS SOP		GKNIGHT

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint/		

Sample Name:	SB10 12-14	**Date Collected:**	12/5/19
Lab Code:	R1911947-009	**Date Received:**	12/5/19
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
6010C	AKONZEL	KMCLAEN
7471B	AKONZEL	KMCLAEN
8081B	KSERCU	JMISIUREWICZ
8082A	KSERCU	BALLGEIER
8151A	KSERCU	BALLGEIER
8260C		FNAEGLER
8270D	JMISIUREWICZ	JMISIUREWICZ
9012B	MROGERSON	MROGERSON
ALS SOP		GKNIGHT

Sample Name:	SB10 12-14	**Date Collected:**	12/5/19
Lab Code:	R1911947-009.R01	**Date Received:**	12/5/19
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	

Sample Results

ALS Environmental—Rochester Laboratory
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Volatile Organic Compounds by GC/MS

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1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 09:15
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB8 1-2	**Units:**	ug/Kg
Lab Code:	R1911947-001	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	4.1 U	4.1	0.17	.69	12/12/19 17:33	
1,1,2,2-Tetrachloroethane	4.1 U	4.1	0.17	.69	12/12/19 17:33	
1,1,2-Trichloroethane	4.1 U	4.1	0.17	.69	12/12/19 17:33	
1,1,2-Trichloro-1,2,2-trifluoroethane	4.1 U	4.1	0.17	.69	12/12/19 17:33	
1,1-Dichloroethane (1,1-DCA)	4.1 U	4.1	0.17	.69	12/12/19 17:33	
1,1-Dichloroethene (1,1-DCE)	4.1 U	4.1	0.24	.69	12/12/19 17:33	
1,2,3-Trichlorobenzene	4.1 U	4.1	0.43	.69	12/12/19 17:33	
1,2,4-Trichlorobenzene	4.1 U	4.1	0.35	.69	12/12/19 17:33	
1,2-Dibromo-3-chloropropane (DBCP)	4.1 U	4.1	0.24	.69	12/12/19 17:33	
1,2-Dibromoethane	4.1 U	4.1	0.17	.69	12/12/19 17:33	
1,2-Dichlorobenzene	4.1 U	4.1	0.17	.69	12/12/19 17:33	
1,2-Dichloroethane	4.1 U	4.1	0.17	.69	12/12/19 17:33	
1,2-Dichloropropane	4.1 U	4.1	0.17	.69	12/12/19 17:33	
1,3-Dichlorobenzene	4.1 U	4.1	0.17	.69	12/12/19 17:33	
1,4-Dichlorobenzene	4.1 U	4.1	0.19	.69	12/12/19 17:33	
1,4-Dioxane	82 U	82	17	.69	12/12/19 17:33	
2-Butanone (MEK)	4.1 U	4.1	1.7	.69	12/12/19 17:33	
2-Hexanone	4.1 U	4.1	0.30	.69	12/12/19 17:33	
4-Methyl-2-pentanone	4.1 U	4.1	0.19	.69	12/12/19 17:33	
Acetone	**8.8**	4.1	3.9	.69	12/12/19 17:33	
Benzene	4.1 U	4.1	0.17	.69	12/12/19 17:33	
Bromochloromethane	4.1 U	4.1	0.17	.69	12/12/19 17:33	
Bromodichloromethane	4.1 U	4.1	0.17	.69	12/12/19 17:33	
Bromoform	4.1 U	4.1	0.42	.69	12/12/19 17:33	
Bromomethane	4.1 U	4.1	1.8	.69	12/12/19 17:33	
Carbon Disulfide	4.1 U	4.1	0.24	.69	12/12/19 17:33	
Carbon Tetrachloride	4.1 U	4.1	0.22	.69	12/12/19 17:33	
Chlorobenzene	4.1 U	4.1	0.17	.69	12/12/19 17:33	
Chloroethane	4.1 U	4.1	0.17	.69	12/12/19 17:33	
Chloroform	4.1 U	4.1	0.17	.69	12/12/19 17:33	
Chloromethane	4.1 U	4.1	1.2	.69	12/12/19 17:33	
Cyclohexane	4.1 U	4.1	0.22	.69	12/12/19 17:33	
Dibromochloromethane	4.1 U	4.1	0.17	.69	12/12/19 17:33	
Dichlorodifluoromethane (CFC 12)	4.1 U	4.1	0.28	.69	12/12/19 17:33	
Dichloromethane	4.1 U	4.1	2.3	.69	12/12/19 17:33	
Ethylbenzene	**0.37 J**	4.1	0.17	.69	12/12/19 17:33	
Isopropylbenzene (Cumene)	4.1 U	4.1	0.17	.69	12/12/19 17:33	
Methyl Acetate	**1.7 J**	4.1	0.69	.69	12/12/19 17:33	
Methyl tert-Butyl Ether	**0.22 J**	4.1	0.17	.69	12/12/19 17:33	
Methylcyclohexane	4.1 U	4.1	0.26	.69	12/12/19 17:33	
Styrene	4.1 U	4.1	0.17	.69	12/12/19 17:33	
Tetrachloroethene (PCE)	4.1 U	4.1	0.19	.69	12/12/19 17:33	
Toluene	**0.50 J**	4.1	0.17	.69	12/12/19 17:33	

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 09:15
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB8 1-2	**Units:**	ug/Kg
Lab Code:	R1911947-001	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	4.1 U	4.1	0.19	.69	12/12/19 17:33	
Trichlorofluoromethane (CFC 11)	4.1 U	4.1	0.22	.69	12/12/19 17:33	
Vinyl Chloride	4.1 U	4.1	0.38	.69	12/12/19 17:33	
cis-1,2-Dichloroethene	4.1 U	4.1	0.17	.69	12/12/19 17:33	
cis-1,3-Dichloropropene	4.1 U	4.1	0.17	.69	12/12/19 17:33	
m,p-Xylenes	**1.6 J**	8.2	0.31	.69	12/12/19 17:33	
o-Xylene	**0.35 J**	4.1	0.17	.69	12/12/19 17:33	
trans-1,2-Dichloroethene	4.1 U	4.1	0.17	.69	12/12/19 17:33	
trans-1,3-Dichloropropene	4.1 U	4.1	0.17	.69	12/12/19 17:33	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	79	31 - 154	12/12/19 17:33	
Dibromofluoromethane	95	63 - 138	12/12/19 17:33	
Toluene-d8	96	66 - 138	12/12/19 17:33	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
000534-22-5	Furan, 2-methyl-	3.38	5.6	JN

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 09:40
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB8 6-8	**Units:**	ug/Kg
Lab Code:	R1911947-002	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	3.4 U	3.4	0.14	.6	12/12/19 17:56	
1,1,2,2-Tetrachloroethane	3.4 U	3.4	0.14	.6	12/12/19 17:56	
1,1,2-Trichloroethane	3.4 U	3.4	0.14	.6	12/12/19 17:56	
1,1,2-Trichloro-1,2,2-trifluoroethane	3.4 U	3.4	0.14	.6	12/12/19 17:56	
1,1-Dichloroethane (1,1-DCA)	3.4 U	3.4	0.14	.6	12/12/19 17:56	
1,1-Dichloroethene (1,1-DCE)	3.4 U	3.4	0.20	.6	12/12/19 17:56	
1,2,3-Trichlorobenzene	3.4 U	3.4	0.36	.6	12/12/19 17:56	
1,2,4-Trichlorobenzene	3.4 U	3.4	0.29	.6	12/12/19 17:56	
1,2-Dibromo-3-chloropropane (DBCP)	3.4 U	3.4	0.20	.6	12/12/19 17:56	
1,2-Dibromoethane	3.4 U	3.4	0.14	.6	12/12/19 17:56	
1,2-Dichlorobenzene	3.4 U	3.4	0.14	.6	12/12/19 17:56	
1,2-Dichloroethane	3.4 U	3.4	0.14	.6	12/12/19 17:56	
1,2-Dichloropropane	3.4 U	3.4	0.14	.6	12/12/19 17:56	
1,3-Dichlorobenzene	3.4 U	3.4	0.14	.6	12/12/19 17:56	
1,4-Dichlorobenzene	3.4 U	3.4	0.15	.6	12/12/19 17:56	
1,4-Dioxane	68 U	68	14	.6	12/12/19 17:56	
2-Butanone (MEK)	**3.9**	3.4	1.4	.6	12/12/19 17:56	
2-Hexanone	3.4 U	3.4	0.25	.6	12/12/19 17:56	
4-Methyl-2-pentanone	3.4 U	3.4	0.16	.6	12/12/19 17:56	
Acetone	**190 E**	3.4	3.3	.6	12/12/19 17:56	
Benzene	3.4 U	3.4	0.14	.6	12/12/19 17:56	
Bromochloromethane	3.4 U	3.4	0.14	.6	12/12/19 17:56	
Bromodichloromethane	3.4 U	3.4	0.14	.6	12/12/19 17:56	
Bromoform	3.4 U	3.4	0.35	.6	12/12/19 17:56	
Bromomethane	3.4 U	3.4	1.5	.6	12/12/19 17:56	
Carbon Disulfide	3.4 U	3.4	0.20	.6	12/12/19 17:56	
Carbon Tetrachloride	3.4 U	3.4	0.18	.6	12/12/19 17:56	
Chlorobenzene	3.4 U	3.4	0.14	.6	12/12/19 17:56	
Chloroethane	3.4 U	3.4	0.14	.6	12/12/19 17:56	
Chloroform	3.4 U	3.4	0.14	.6	12/12/19 17:56	
Chloromethane	3.4 U	3.4	0.96	.6	12/12/19 17:56	
Cyclohexane	3.4 U	3.4	0.18	.6	12/12/19 17:56	
Dibromochloromethane	3.4 U	3.4	0.14	.6	12/12/19 17:56	
Dichlorodifluoromethane (CFC 12)	3.4 U	3.4	0.23	.6	12/12/19 17:56	
Dichloromethane	3.4 U	3.4	2.0	.6	12/12/19 17:56	
Ethylbenzene	**0.23 J**	3.4	0.14	.6	12/12/19 17:56	
Isopropylbenzene (Cumene)	3.4 U	3.4	0.14	.6	12/12/19 17:56	
Methyl Acetate	**55**	3.4	0.58	.6	12/12/19 17:56	
Methyl tert-Butyl Ether	**0.27 J**	3.4	0.14	.6	12/12/19 17:56	
Methylcyclohexane	3.4 U	3.4	0.22	.6	12/12/19 17:56	
Styrene	3.4 U	3.4	0.14	.6	12/12/19 17:56	
Tetrachloroethene (PCE)	3.4 U	3.4	0.16	.6	12/12/19 17:56	
Toluene	**0.41 J**	3.4	0.14	.6	12/12/19 17:56	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 09:40
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB8 6-8	**Units:**	ug/Kg
Lab Code:	R1911947-002	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	3.4 U	3.4	0.15	.6	12/12/19 17:56	
Trichlorofluoromethane (CFC 11)	3.4 U	3.4	0.18	.6	12/12/19 17:56	
Vinyl Chloride	3.4 U	3.4	0.32	.6	12/12/19 17:56	
cis-1,2-Dichloroethene	3.4 U	3.4	0.14	.6	12/12/19 17:56	
cis-1,3-Dichloropropene	3.4 U	3.4	0.14	.6	12/12/19 17:56	
m,p-Xylenes	**0.93 J**	6.8	0.26	.6	12/12/19 17:56	
o-Xylene	**0.20 J**	3.4	0.14	.6	12/12/19 17:56	
trans-1,2-Dichloroethene	3.4 U	3.4	0.14	.6	12/12/19 17:56	
trans-1,3-Dichloropropene	3.4 U	3.4	0.14	.6	12/12/19 17:56	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	31 - 154	12/12/19 17:56	
Dibromofluoromethane	92	63 - 138	12/12/19 17:56	
Toluene-d8	98	66 - 138	12/12/19 17:56	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
000109-66-0	Pentane	1.69	4.9	JN
000107-83-5	Pentane, 2-methyl-	2.42	7.9	JN
	unknown	2.51	3.9	J
000141-78-6	Ethyl Acetate	3.95	6.7	JN

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 09:40
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB8 6-8	**Units:**	ug/Kg
Lab Code:	R1911947-002	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	390 U	390	16	68.5	12/16/19 14:43	
1,1,2,2-Tetrachloroethane	390 U	390	16	68.5	12/16/19 14:43	
1,1,2-Trichloroethane	390 U	390	16	68.5	12/16/19 14:43	
1,1,2-Trichloro-1,2,2-trifluoroethane	390 U	390	16	68.5	12/16/19 14:43	
1,1-Dichloroethane (1,1-DCA)	390 U	390	16	68.5	12/16/19 14:43	
1,1-Dichloroethene (1,1-DCE)	390 U	390	23	68.5	12/16/19 14:43	
1,2,3-Trichlorobenzene	390 U	390	41	68.5	12/16/19 14:43	
1,2,4-Trichlorobenzene	390 U	390	33	68.5	12/16/19 14:43	
1,2-Dibromo-3-chloropropane (DBCP)	390 U	390	23	68.5	12/16/19 14:43	
1,2-Dibromoethane	390 U	390	16	68.5	12/16/19 14:43	
1,2-Dichlorobenzene	390 U	390	16	68.5	12/16/19 14:43	
1,2-Dichloroethane	390 U	390	16	68.5	12/16/19 14:43	
1,2-Dichloropropane	390 U	390	16	68.5	12/16/19 14:43	
1,3-Dichlorobenzene	390 U	390	16	68.5	12/16/19 14:43	
1,4-Dichlorobenzene	390 U	390	18	68.5	12/16/19 14:43	
1,4-Dioxane	7800 U	7800	1600	68.5	12/16/19 14:43	
2-Butanone (MEK)	390 U	390	160	68.5	12/16/19 14:43	
2-Hexanone	390 U	390	29	68.5	12/16/19 14:43	
4-Methyl-2-pentanone	390 U	390	18	68.5	12/16/19 14:43	
Acetone	390 U	390	370	68.5	12/16/19 14:43	
Benzene	390 U	390	16	68.5	12/16/19 14:43	
Bromochloromethane	390 U	390	16	68.5	12/16/19 14:43	
Bromodichloromethane	390 U	390	16	68.5	12/16/19 14:43	
Bromoform	390 U	390	39	68.5	12/16/19 14:43	
Bromomethane	390 U	390	170	68.5	12/16/19 14:43	
Carbon Disulfide	390 U	390	23	68.5	12/16/19 14:43	
Carbon Tetrachloride	390 U	390	21	68.5	12/16/19 14:43	
Chlorobenzene	390 U	390	16	68.5	12/16/19 14:43	
Chloroethane	390 U	390	16	68.5	12/16/19 14:43	
Chloroform	390 U	390	16	68.5	12/16/19 14:43	
Chloromethane	390 U	390	110	68.5	12/16/19 14:43	
Cyclohexane	390 U	390	21	68.5	12/16/19 14:43	
Dibromochloromethane	390 U	390	16	68.5	12/16/19 14:43	
Dichlorodifluoromethane (CFC 12)	390 U	390	26	68.5	12/16/19 14:43	
Dichloromethane	390 U	390	220	68.5	12/16/19 14:43	
Ethylbenzene	390 U	390	16	68.5	12/16/19 14:43	
Isopropylbenzene (Cumene)	390 U	390	16	68.5	12/16/19 14:43	
Methyl Acetate	**160 DJ**	390	66	68.5	12/16/19 14:43	
Methyl tert-Butyl Ether	390 U	390	16	68.5	12/16/19 14:43	
Methylcyclohexane	390 U	390	25	68.5	12/16/19 14:43	
Styrene	390 U	390	16	68.5	12/16/19 14:43	
Tetrachloroethene (PCE)	390 U	390	18	68.5	12/16/19 14:43	
Toluene	390 U	390	16	68.5	12/16/19 14:43	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 09:40
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB8 6-8	**Units:**	ug/Kg
Lab Code:	R1911947-002	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	390 U	390	18	68.5	12/16/19 14:43	
Trichlorofluoromethane (CFC 11)	390 U	390	21	68.5	12/16/19 14:43	
Vinyl Chloride	390 U	390	36	68.5	12/16/19 14:43	
cis-1,2-Dichloroethene	390 U	390	16	68.5	12/16/19 14:43	
cis-1,3-Dichloropropene	390 U	390	16	68.5	12/16/19 14:43	
m,p-Xylenes	780 U	780	29	68.5	12/16/19 14:43	
o-Xylene	390 U	390	16	68.5	12/16/19 14:43	
trans-1,2-Dichloroethene	390 U	390	16	68.5	12/16/19 14:43	
trans-1,3-Dichloropropene	390 U	390	16	68.5	12/16/19 14:43	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	89	31 - 154	12/16/19 14:43	
Dibromofluoromethane	85	63 - 138	12/16/19 14:43	
Toluene-d8	94	66 - 138	12/16/19 14:43	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB11 1-2	**Units:**	ug/Kg
Lab Code:	R1911947-003	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	3.2	U	3.2	0.13	.51	12/12/19 18:19	
1,1,2,2-Tetrachloroethane	3.2	U	3.2	0.13	.51	12/12/19 18:19	
1,1,2-Trichloroethane	3.2	U	3.2	0.13	.51	12/12/19 18:19	
1,1,2-Trichloro-1,2,2-trifluoroethane	3.2	U	3.2	0.13	.51	12/12/19 18:19	
1,1-Dichloroethane (1,1-DCA)	3.2	U	3.2	0.13	.51	12/12/19 18:19	
1,1-Dichloroethene (1,1-DCE)	3.2	U	3.2	0.19	.51	12/12/19 18:19	
1,2,3-Trichlorobenzene	3.2	U	3.2	0.34	.51	12/12/19 18:19	
1,2,4-Trichlorobenzene	3.2	U	3.2	0.27	.51	12/12/19 18:19	
1,2-Dibromo-3-chloropropane (DBCP)	3.2	U	3.2	0.19	.51	12/12/19 18:19	
1,2-Dibromoethane	3.2	U	3.2	0.13	.51	12/12/19 18:19	
1,2-Dichlorobenzene	3.2	U	3.2	0.13	.51	12/12/19 18:19	
1,2-Dichloroethane	3.2	U	3.2	0.13	.51	12/12/19 18:19	
1,2-Dichloropropane	3.2	U	3.2	0.13	.51	12/12/19 18:19	
1,3-Dichlorobenzene	3.2	U	3.2	0.13	.51	12/12/19 18:19	
1,4-Dichlorobenzene	3.2	U	3.2	0.15	.51	12/12/19 18:19	
1,4-Dioxane	64	U	64	13	.51	12/12/19 18:19	
2-Butanone (MEK)	**46**		3.2	1.3	.51	12/12/19 18:19	
2-Hexanone	3.2	U	3.2	0.24	.51	12/12/19 18:19	
4-Methyl-2-pentanone	3.2	U	3.2	0.15	.51	12/12/19 18:19	
Acetone	**320**	**E**	3.2	3.1	.51	12/12/19 18:19	
Benzene	**11**		3.2	0.13	.51	12/12/19 18:19	
Bromochloromethane	3.2	U	3.2	0.13	.51	12/12/19 18:19	
Bromodichloromethane	3.2	U	3.2	0.13	.51	12/12/19 18:19	
Bromoform	3.2	U	3.2	0.33	.51	12/12/19 18:19	
Bromomethane	3.2	U	3.2	1.4	.51	12/12/19 18:19	
Carbon Disulfide	**0.44**	**J**	3.2	0.19	.51	12/12/19 18:19	
Carbon Tetrachloride	3.2	U	3.2	0.17	.51	12/12/19 18:19	
Chlorobenzene	**0.26**	**J**	3.2	0.13	.51	12/12/19 18:19	
Chloroethane	3.2	U	3.2	0.13	.51	12/12/19 18:19	
Chloroform	3.2	U	3.2	0.13	.51	12/12/19 18:19	
Chloromethane	3.2	U	3.2	0.90	.51	12/12/19 18:19	
Cyclohexane	**1.6**	**J**	3.2	0.17	.51	12/12/19 18:19	
Dibromochloromethane	3.2	U	3.2	0.13	.51	12/12/19 18:19	
Dichlorodifluoromethane (CFC 12)	3.2	U	3.2	0.22	.51	12/12/19 18:19	
Dichloromethane	3.2	U	3.2	1.8	.51	12/12/19 18:19	
Ethylbenzene	**0.21**	**J**	3.2	0.13	.51	12/12/19 18:19	
Isopropylbenzene (Cumene)	**3.8**		3.2	0.13	.51	12/12/19 18:19	
Methyl Acetate	**24**		3.2	0.54	.51	12/12/19 18:19	
Methyl tert-Butyl Ether	**0.33**	**J**	3.2	0.13	.51	12/12/19 18:19	
Methylcyclohexane	**7.2**		3.2	0.20	.51	12/12/19 18:19	
Styrene	3.2	U	3.2	0.13	.51	12/12/19 18:19	
Tetrachloroethene (PCE)	3.2	U	3.2	0.15	.51	12/12/19 18:19	
Toluene	**0.77**	**J**	3.2	0.13	.51	12/12/19 18:19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB11 1-2	**Units:**	ug/Kg
Lab Code:	R1911947-003	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	3.2 U	3.2	0.15	.51	12/12/19 18:19	
Trichlorofluoromethane (CFC 11)	3.2 U	3.2	0.17	.51	12/12/19 18:19	
Vinyl Chloride	**0.37 J**	3.2	0.30	.51	12/12/19 18:19	
cis-1,2-Dichloroethene	**0.35 J**	3.2	0.13	.51	12/12/19 18:19	
cis-1,3-Dichloropropene	3.2 U	3.2	0.13	.51	12/12/19 18:19	
m,p-Xylenes	**11**	6.4	0.24	.51	12/12/19 18:19	
o-Xylene	**2.1 J**	3.2	0.13	.51	12/12/19 18:19	
trans-1,2-Dichloroethene	3.2 U	3.2	0.13	.51	12/12/19 18:19	
trans-1,3-Dichloropropene	3.2 U	3.2	0.13	.51	12/12/19 18:19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	79	31 - 154	12/12/19 18:19	
Dibromofluoromethane	93	63 - 138	12/12/19 18:19	
Toluene-d8	98	66 - 138	12/12/19 18:19	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
003728-55-0	1-Ethyl-3-methylcyclohexane (c,t)	10.19	26	JN
	unknown	10.39	13	J
001678-92-8	Cyclohexane, propyl-	10.48	20	JN
	unknown	10.55	7.6	J
	unknown	10.78	15	J
006783-92-2	Cyclohexane, 1,1,2,3-tetramethyl-	10.88	35	JN
	unknown	11.02	8.6	J
	unknown	11.06	13	J
	unknown	11.12	11	J
	unknown	11.17	9.3	J
	unknown	11.30	10	J
000611-14-3	Benzene, 1-ethyl-2-methyl-	11.45	25	JN
	unknown	11.66	9.3	J
	unknown	11.87	14	J
000493-02-7	Naphthalene, decahydro-, trans-	12.04	9.9	JN
000638-04-0	Cyclohexane, 1,3-dimethyl-, cis-	7.89	10	JN
	unknown	8.96	8.3	J
001678-91-7	Cyclohexane, ethyl-	9.02	10	JN
003073-66-3	Cyclohexane, 1,1,3-trimethyl-	9.08	9.3	JN
007667-60-9	Cyclohexane, 1,2,4-trimethyl-, (1.	9.33	11	JN

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB11 1-2	**Units:**	ug/Kg
Lab Code:	R1911947-003	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	560 U	560	23	89	12/16/19 15:05	
1,1,2,2-Tetrachloroethane	560 U	560	23	89	12/16/19 15:05	
1,1,2-Trichloroethane	560 U	560	23	89	12/16/19 15:05	
1,1,2-Trichloro-1,2,2-trifluoroethane	560 U	560	23	89	12/16/19 15:05	
1,1-Dichloroethane (1,1-DCA)	560 U	560	23	89	12/16/19 15:05	
1,1-Dichloroethene (1,1-DCE)	560 U	560	33	89	12/16/19 15:05	
1,2,3-Trichlorobenzene	560 U	560	59	89	12/16/19 15:05	
1,2,4-Trichlorobenzene	560 U	560	48	89	12/16/19 15:05	
1,2-Dibromo-3-chloropropane (DBCP)	560 U	560	33	89	12/16/19 15:05	
1,2-Dibromoethane	560 U	560	23	89	12/16/19 15:05	
1,2-Dichlorobenzene	560 U	560	23	89	12/16/19 15:05	
1,2-Dichloroethane	560 U	560	23	89	12/16/19 15:05	
1,2-Dichloropropane	560 U	560	23	89	12/16/19 15:05	
1,3-Dichlorobenzene	560 U	560	23	89	12/16/19 15:05	
1,4-Dichlorobenzene	560 U	560	25	89	12/16/19 15:05	
1,4-Dioxane	11000 U	11000	2300	89	12/16/19 15:05	
2-Butanone (MEK)	560 U	560	230	89	12/16/19 15:05	
2-Hexanone	560 U	560	41	89	12/16/19 15:05	
4-Methyl-2-pentanone	560 U	560	26	89	12/16/19 15:05	
Acetone	**810 D**	560	530	89	12/16/19 15:05	
Benzene	**120 DJ**	560	23	89	12/16/19 15:05	
Bromochloromethane	560 U	560	23	89	12/16/19 15:05	
Bromodichloromethane	560 U	560	23	89	12/16/19 15:05	
Bromoform	560 U	560	56	89	12/16/19 15:05	
Bromomethane	560 U	560	240	89	12/16/19 15:05	
Carbon Disulfide	560 U	560	33	89	12/16/19 15:05	
Carbon Tetrachloride	560 U	560	30	89	12/16/19 15:05	
Chlorobenzene	560 U	560	23	89	12/16/19 15:05	
Chloroethane	560 U	560	23	89	12/16/19 15:05	
Chloroform	560 U	560	23	89	12/16/19 15:05	
Chloromethane	560 U	560	160	89	12/16/19 15:05	
Cyclohexane	560 U	560	30	89	12/16/19 15:05	
Dibromochloromethane	560 U	560	23	89	12/16/19 15:05	
Dichlorodifluoromethane (CFC 12)	560 U	560	37	89	12/16/19 15:05	
Dichloromethane	560 U	560	320	89	12/16/19 15:05	
Ethylbenzene	**76 DJ**	560	23	89	12/16/19 15:05	
Isopropylbenzene (Cumene)	**68 DJ**	560	23	89	12/16/19 15:05	
Methyl Acetate	**680 D**	560	95	89	12/16/19 15:05	
Methyl tert-Butyl Ether	560 U	560	23	89	12/16/19 15:05	
Methylcyclohexane	**92 DJ**	560	35	89	12/16/19 15:05	
Styrene	560 U	560	23	89	12/16/19 15:05	
Tetrachloroethene (PCE)	560 U	560	26	89	12/16/19 15:05	
Toluene	**120 DJ**	560	23	89	12/16/19 15:05	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB11 1-2	**Units:**	ug/Kg
Lab Code:	R1911947-003	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	560 U	560	25	89	12/16/19 15:05	
Trichlorofluoromethane (CFC 11)	560 U	560	30	89	12/16/19 15:05	
Vinyl Chloride	560 U	560	52	89	12/16/19 15:05	
cis-1,2-Dichloroethene	560 U	560	23	89	12/16/19 15:05	
cis-1,3-Dichloropropene	560 U	560	23	89	12/16/19 15:05	
m,p-Xylenes	**510 DJ**	1100	42	89	12/16/19 15:05	
o-Xylene	**83 DJ**	560	23	89	12/16/19 15:05	
trans-1,2-Dichloroethene	560 U	560	23	89	12/16/19 15:05	
trans-1,3-Dichloropropene	560 U	560	23	89	12/16/19 15:05	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	31 - 154	12/16/19 15:05	
Dibromofluoromethane	83	63 - 138	12/16/19 15:05	
Toluene-d8	97	66 - 138	12/16/19 15:05	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	1.42	660	J

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB11 6-8	**Units:**	ug/Kg
Lab Code:	R1911947-004	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	3.8 U	3.8	0.16	.67	12/12/19 18:42	
1,1,2,2-Tetrachloroethane	3.8 U	3.8	0.16	.67	12/12/19 18:42	
1,1,2-Trichloroethane	3.8 U	3.8	0.16	.67	12/12/19 18:42	
1,1,2-Trichloro-1,2,2-trifluoroethane	3.8 U	3.8	0.16	.67	12/12/19 18:42	
1,1-Dichloroethane (1,1-DCA)	3.8 U	3.8	0.16	.67	12/12/19 18:42	
1,1-Dichloroethene (1,1-DCE)	3.8 U	3.8	0.22	.67	12/12/19 18:42	
1,2,3-Trichlorobenzene	3.8 U	3.8	0.40	.67	12/12/19 18:42	
1,2,4-Trichlorobenzene	3.8 U	3.8	0.32	.67	12/12/19 18:42	
1,2-Dibromo-3-chloropropane (DBCP)	3.8 U	3.8	0.22	.67	12/12/19 18:42	
1,2-Dibromoethane	3.8 U	3.8	0.16	.67	12/12/19 18:42	
1,2-Dichlorobenzene	3.8 U	3.8	0.16	.67	12/12/19 18:42	
1,2-Dichloroethane	3.8 U	3.8	0.16	.67	12/12/19 18:42	
1,2-Dichloropropane	3.8 U	3.8	0.16	.67	12/12/19 18:42	
1,3-Dichlorobenzene	3.8 U	3.8	0.16	.67	12/12/19 18:42	
1,4-Dichlorobenzene	3.8 U	3.8	0.17	.67	12/12/19 18:42	
1,4-Dioxane	75 U	75	16	.67	12/12/19 18:42	
2-Butanone (MEK)	3.8 U	3.8	1.6	.67	12/12/19 18:42	
2-Hexanone	3.8 U	3.8	0.28	.67	12/12/19 18:42	
4-Methyl-2-pentanone	3.8 U	3.8	0.18	.67	12/12/19 18:42	
Acetone	**6.7**	3.8	3.6	.67	12/12/19 18:42	
Benzene	3.8 U	3.8	0.16	.67	12/12/19 18:42	
Bromochloromethane	3.8 U	3.8	0.16	.67	12/12/19 18:42	
Bromodichloromethane	3.8 U	3.8	0.16	.67	12/12/19 18:42	
Bromoform	3.8 U	3.8	0.38	.67	12/12/19 18:42	
Bromomethane	3.8 U	3.8	1.6	.67	12/12/19 18:42	
Carbon Disulfide	3.8 U	3.8	0.22	.67	12/12/19 18:42	
Carbon Tetrachloride	3.8 U	3.8	0.20	.67	12/12/19 18:42	
Chlorobenzene	3.8 U	3.8	0.16	.67	12/12/19 18:42	
Chloroethane	3.8 U	3.8	0.16	.67	12/12/19 18:42	
Chloroform	3.8 U	3.8	0.16	.67	12/12/19 18:42	
Chloromethane	3.8 U	3.8	1.1	.67	12/12/19 18:42	
Cyclohexane	3.8 U	3.8	0.20	.67	12/12/19 18:42	
Dibromochloromethane	3.8 U	3.8	0.16	.67	12/12/19 18:42	
Dichlorodifluoromethane (CFC 12)	3.8 U	3.8	0.25	.67	12/12/19 18:42	
Dichloromethane	3.8 U	3.8	2.2	.67	12/12/19 18:42	
Ethylbenzene	3.8 U	3.8	0.16	.67	12/12/19 18:42	
Isopropylbenzene (Cumene)	3.8 U	3.8	0.16	.67	12/12/19 18:42	
Methyl Acetate	3.8 U	3.8	0.64	.67	12/12/19 18:42	
Methyl tert-Butyl Ether	3.8 U	3.8	0.16	.67	12/12/19 18:42	
Methylcyclohexane	3.8 U	3.8	0.24	.67	12/12/19 18:42	
Styrene	3.8 U	3.8	0.16	.67	12/12/19 18:42	
Tetrachloroethene (PCE)	3.8 U	3.8	0.18	.67	12/12/19 18:42	
Toluene	**0.22 J**	3.8	0.16	.67	12/12/19 18:42	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB11 6-8	**Units:**	ug/Kg
Lab Code:	R1911947-004	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	3.8 U	3.8	0.17	.67	12/12/19 18:42	
Trichlorofluoromethane (CFC 11)	3.8 U	3.8	0.20	.67	12/12/19 18:42	
Vinyl Chloride	3.8 U	3.8	0.35	.67	12/12/19 18:42	
cis-1,2-Dichloroethene	3.8 U	3.8	0.16	.67	12/12/19 18:42	
cis-1,3-Dichloropropene	3.8 U	3.8	0.16	.67	12/12/19 18:42	
m,p-Xylenes	7.5 U	7.5	0.28	.67	12/12/19 18:42	
o-Xylene	3.8 U	3.8	0.16	.67	12/12/19 18:42	
trans-1,2-Dichloroethene	3.8 U	3.8	0.16	.67	12/12/19 18:42	
trans-1,3-Dichloropropene	3.8 U	3.8	0.16	.67	12/12/19 18:42	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	31 - 154	12/12/19 18:42	
Dibromofluoromethane	93	63 - 138	12/12/19 18:42	
Toluene-d8	99	66 - 138	12/12/19 18:42	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB11 6-8 Dup	**Units:**	ug/Kg
Lab Code:	R1911947-005	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	3.5 U	3.5	0.15	.63	12/12/19 19:05	
1,1,2,2-Tetrachloroethane	3.5 U	3.5	0.15	.63	12/12/19 19:05	
1,1,2-Trichloroethane	3.5 U	3.5	0.15	.63	12/12/19 19:05	
1,1,2-Trichloro-1,2,2-trifluoroethane	3.5 U	3.5	0.15	.63	12/12/19 19:05	
1,1-Dichloroethane (1,1-DCA)	3.5 U	3.5	0.15	.63	12/12/19 19:05	
1,1-Dichloroethene (1,1-DCE)	3.5 U	3.5	0.21	.63	12/12/19 19:05	
1,2,3-Trichlorobenzene	3.5 U	3.5	0.37	.63	12/12/19 19:05	
1,2,4-Trichlorobenzene	3.5 U	3.5	0.30	.63	12/12/19 19:05	
1,2-Dibromo-3-chloropropane (DBCP)	3.5 U	3.5	0.21	.63	12/12/19 19:05	
1,2-Dibromoethane	3.5 U	3.5	0.15	.63	12/12/19 19:05	
1,2-Dichlorobenzene	3.5 U	3.5	0.15	.63	12/12/19 19:05	
1,2-Dichloroethane	3.5 U	3.5	0.15	.63	12/12/19 19:05	
1,2-Dichloropropane	3.5 U	3.5	0.15	.63	12/12/19 19:05	
1,3-Dichlorobenzene	3.5 U	3.5	0.15	.63	12/12/19 19:05	
1,4-Dichlorobenzene	3.5 U	3.5	0.16	.63	12/12/19 19:05	
1,4-Dioxane	70 U	70	15	.63	12/12/19 19:05	
2-Butanone (MEK)	**2.2 J**	3.5	1.5	.63	12/12/19 19:05	
2-Hexanone	3.5 U	3.5	0.26	.63	12/12/19 19:05	
4-Methyl-2-pentanone	3.5 U	3.5	0.17	.63	12/12/19 19:05	
Acetone	**71**	3.5	3.4	.63	12/12/19 19:05	
Benzene	3.5 U	3.5	0.15	.63	12/12/19 19:05	
Bromochloromethane	3.5 U	3.5	0.15	.63	12/12/19 19:05	
Bromodichloromethane	3.5 U	3.5	0.15	.63	12/12/19 19:05	
Bromoform	3.5 U	3.5	0.36	.63	12/12/19 19:05	
Bromomethane	3.5 U	3.5	1.5	.63	12/12/19 19:05	
Carbon Disulfide	3.5 U	3.5	0.21	.63	12/12/19 19:05	
Carbon Tetrachloride	3.5 U	3.5	0.19	.63	12/12/19 19:05	
Chlorobenzene	3.5 U	3.5	0.15	.63	12/12/19 19:05	
Chloroethane	3.5 U	3.5	0.15	.63	12/12/19 19:05	
Chloroform	3.5 U	3.5	0.15	.63	12/12/19 19:05	
Chloromethane	3.5 U	3.5	0.99	.63	12/12/19 19:05	
Cyclohexane	3.5 U	3.5	0.19	.63	12/12/19 19:05	
Dibromochloromethane	3.5 U	3.5	0.15	.63	12/12/19 19:05	
Dichlorodifluoromethane (CFC 12)	3.5 U	3.5	0.24	.63	12/12/19 19:05	
Dichloromethane	3.5 U	3.5	2.0	.63	12/12/19 19:05	
Ethylbenzene	3.5 U	3.5	0.15	.63	12/12/19 19:05	
Isopropylbenzene (Cumene)	3.5 U	3.5	0.15	.63	12/12/19 19:05	
Methyl Acetate	**30**	3.5	0.60	.63	12/12/19 19:05	
Methyl tert-Butyl Ether	**0.19 J**	3.5	0.15	.63	12/12/19 19:05	
Methylcyclohexane	3.5 U	3.5	0.22	.63	12/12/19 19:05	
Styrene	3.5 U	3.5	0.15	.63	12/12/19 19:05	
Tetrachloroethene (PCE)	3.5 U	3.5	0.17	.63	12/12/19 19:05	
Toluene	**0.46 J**	3.5	0.15	.63	12/12/19 19:05	

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB11 6-8 Dup	**Units:**	ug/Kg
Lab Code:	R1911947-005	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	3.5 U	3.5	0.16	.63	12/12/19 19:05	
Trichlorofluoromethane (CFC 11)	3.5 U	3.5	0.19	.63	12/12/19 19:05	
Vinyl Chloride	3.5 U	3.5	0.33	.63	12/12/19 19:05	
cis-1,2-Dichloroethene	3.5 U	3.5	0.15	.63	12/12/19 19:05	
cis-1,3-Dichloropropene	3.5 U	3.5	0.15	.63	12/12/19 19:05	
m,p-Xylenes	7.0 U	7.0	0.27	.63	12/12/19 19:05	
o-Xylene	3.5 U	3.5	0.15	.63	12/12/19 19:05	
trans-1,2-Dichloroethene	3.5 U	3.5	0.15	.63	12/12/19 19:05	
trans-1,3-Dichloropropene	3.5 U	3.5	0.15	.63	12/12/19 19:05	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	86	31 - 154	12/12/19 19:05	
Dibromofluoromethane	93	63 - 138	12/12/19 19:05	
Toluene-d8	97	66 - 138	12/12/19 19:05	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
000109-66-0	Pentane	1.69	4.3	JN
	unknown	2.42	6.8	J

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 11:40
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB9 2-4	**Units:**	ug/Kg
Lab Code:	R1911947-006	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	3.5 U	3.5	0.15	.62	12/12/19 19:28	
1,1,2,2-Tetrachloroethane	3.5 U	3.5	0.15	.62	12/12/19 19:28	
1,1,2-Trichloroethane	3.5 U	3.5	0.15	.62	12/12/19 19:28	
1,1,2-Trichloro-1,2,2-trifluoroethane	3.5 U	3.5	0.15	.62	12/12/19 19:28	
1,1-Dichloroethane (1,1-DCA)	3.5 U	3.5	0.15	.62	12/12/19 19:28	
1,1-Dichloroethene (1,1-DCE)	3.5 U	3.5	0.21	.62	12/12/19 19:28	
1,2,3-Trichlorobenzene	3.5 U	3.5	0.37	.62	12/12/19 19:28	
1,2,4-Trichlorobenzene	3.5 U	3.5	0.30	.62	12/12/19 19:28	
1,2-Dibromo-3-chloropropane (DBCP)	3.5 U	3.5	0.21	.62	12/12/19 19:28	
1,2-Dibromoethane	3.5 U	3.5	0.15	.62	12/12/19 19:28	
1,2-Dichlorobenzene	3.5 U	3.5	0.15	.62	12/12/19 19:28	
1,2-Dichloroethane	3.5 U	3.5	0.15	.62	12/12/19 19:28	
1,2-Dichloropropane	3.5 U	3.5	0.15	.62	12/12/19 19:28	
1,3-Dichlorobenzene	3.5 U	3.5	0.15	.62	12/12/19 19:28	
1,4-Dichlorobenzene	3.5 U	3.5	0.16	.62	12/12/19 19:28	
1,4-Dioxane	71 U	71	15	.62	12/12/19 19:28	
2-Butanone (MEK)	3.5 U	3.5	1.5	.62	12/12/19 19:28	
2-Hexanone	3.5 U	3.5	0.26	.62	12/12/19 19:28	
4-Methyl-2-pentanone	3.5 U	3.5	0.17	.62	12/12/19 19:28	
Acetone	**19**	3.5	3.4	.62	12/12/19 19:28	
Benzene	3.5 U	3.5	0.15	.62	12/12/19 19:28	
Bromochloromethane	3.5 U	3.5	0.15	.62	12/12/19 19:28	
Bromodichloromethane	3.5 U	3.5	0.15	.62	12/12/19 19:28	
Bromoform	3.5 U	3.5	0.36	.62	12/12/19 19:28	
Bromomethane	3.5 U	3.5	1.5	.62	12/12/19 19:28	
Carbon Disulfide	**0.22 J**	3.5	0.21	.62	12/12/19 19:28	
Carbon Tetrachloride	3.5 U	3.5	0.19	.62	12/12/19 19:28	
Chlorobenzene	3.5 U	3.5	0.15	.62	12/12/19 19:28	
Chloroethane	3.5 U	3.5	0.15	.62	12/12/19 19:28	
Chloroform	3.5 U	3.5	0.15	.62	12/12/19 19:28	
Chloromethane	3.5 U	3.5	0.99	.62	12/12/19 19:28	
Cyclohexane	3.5 U	3.5	0.19	.62	12/12/19 19:28	
Dibromochloromethane	3.5 U	3.5	0.15	.62	12/12/19 19:28	
Dichlorodifluoromethane (CFC 12)	3.5 U	3.5	0.24	.62	12/12/19 19:28	
Dichloromethane	3.5 U	3.5	2.0	.62	12/12/19 19:28	
Ethylbenzene	3.5 U	3.5	0.15	.62	12/12/19 19:28	
Isopropylbenzene (Cumene)	3.5 U	3.5	0.15	.62	12/12/19 19:28	
Methyl Acetate	**0.74 J**	3.5	0.60	.62	12/12/19 19:28	
Methyl tert-Butyl Ether	3.5 U	3.5	0.15	.62	12/12/19 19:28	
Methylcyclohexane	3.5 U	3.5	0.22	.62	12/12/19 19:28	
Styrene	3.5 U	3.5	0.15	.62	12/12/19 19:28	
Tetrachloroethene (PCE)	3.5 U	3.5	0.17	.62	12/12/19 19:28	
Toluene	**0.32 J**	3.5	0.15	.62	12/12/19 19:28	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 11:40
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB9 2-4	**Units:**	ug/Kg
Lab Code:	R1911947-006	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	3.5 U	3.5	0.16	.62	12/12/19 19:28	
Trichlorofluoromethane (CFC 11)	3.5 U	3.5	0.19	.62	12/12/19 19:28	
Vinyl Chloride	3.5 U	3.5	0.33	.62	12/12/19 19:28	
cis-1,2-Dichloroethene	3.5 U	3.5	0.15	.62	12/12/19 19:28	
cis-1,3-Dichloropropene	3.5 U	3.5	0.15	.62	12/12/19 19:28	
m,p-Xylenes	7.1 U	7.1	0.27	.62	12/12/19 19:28	
o-Xylene	3.5 U	3.5	0.15	.62	12/12/19 19:28	
trans-1,2-Dichloroethene	3.5 U	3.5	0.15	.62	12/12/19 19:28	
trans-1,3-Dichloropropene	3.5 U	3.5	0.15	.62	12/12/19 19:28	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	31 - 154	12/12/19 19:28	
Dibromofluoromethane	92	63 - 138	12/12/19 19:28	
Toluene-d8	95	66 - 138	12/12/19 19:28	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 11:50
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB9 11-13	**Units:**	ug/Kg
Lab Code:	R1911947-007	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	3.8 U	3.8	0.16	.68	12/12/19 19:51	
1,1,2,2-Tetrachloroethane	3.8 U	3.8	0.16	.68	12/12/19 19:51	
1,1,2-Trichloroethane	3.8 U	3.8	0.16	.68	12/12/19 19:51	
1,1,2-Trichloro-1,2,2-trifluoroethane	3.8 U	3.8	0.16	.68	12/12/19 19:51	
1,1-Dichloroethane (1,1-DCA)	3.8 U	3.8	0.16	.68	12/12/19 19:51	
1,1-Dichloroethene (1,1-DCE)	3.8 U	3.8	0.23	.68	12/12/19 19:51	
1,2,3-Trichlorobenzene	3.8 U	3.8	0.40	.68	12/12/19 19:51	
1,2,4-Trichlorobenzene	3.8 U	3.8	0.33	.68	12/12/19 19:51	
1,2-Dibromo-3-chloropropane (DBCP)	3.8 U	3.8	0.23	.68	12/12/19 19:51	
1,2-Dibromoethane	3.8 U	3.8	0.16	.68	12/12/19 19:51	
1,2-Dichlorobenzene	3.8 U	3.8	0.16	.68	12/12/19 19:51	
1,2-Dichloroethane	3.8 U	3.8	0.16	.68	12/12/19 19:51	
1,2-Dichloropropane	3.8 U	3.8	0.16	.68	12/12/19 19:51	
1,3-Dichlorobenzene	3.8 U	3.8	0.16	.68	12/12/19 19:51	
1,4-Dichlorobenzene	3.8 U	3.8	0.17	.68	12/12/19 19:51	
1,4-Dioxane	77 U	77	16	.68	12/12/19 19:51	
2-Butanone (MEK)	**2.3 J**	3.8	1.6	.68	12/12/19 19:51	
2-Hexanone	3.8 U	3.8	0.28	.68	12/12/19 19:51	
4-Methyl-2-pentanone	3.8 U	3.8	0.18	.68	12/12/19 19:51	
Acetone	**20**	3.8	3.7	.68	12/12/19 19:51	
Benzene	**0.62 J**	3.8	0.16	.68	12/12/19 19:51	
Bromochloromethane	3.8 U	3.8	0.16	.68	12/12/19 19:51	
Bromodichloromethane	3.8 U	3.8	0.16	.68	12/12/19 19:51	
Bromoform	3.8 U	3.8	0.39	.68	12/12/19 19:51	
Bromomethane	3.8 U	3.8	1.7	.68	12/12/19 19:51	
Carbon Disulfide	**0.63 J**	3.8	0.23	.68	12/12/19 19:51	
Carbon Tetrachloride	3.8 U	3.8	0.20	.68	12/12/19 19:51	
Chlorobenzene	3.8 U	3.8	0.16	.68	12/12/19 19:51	
Chloroethane	3.8 U	3.8	0.16	.68	12/12/19 19:51	
Chloroform	3.8 U	3.8	0.16	.68	12/12/19 19:51	
Chloromethane	3.8 U	3.8	1.1	.68	12/12/19 19:51	
Cyclohexane	**1.9 J**	3.8	0.20	.68	12/12/19 19:51	
Dibromochloromethane	3.8 U	3.8	0.16	.68	12/12/19 19:51	
Dichlorodifluoromethane (CFC 12)	3.8 U	3.8	0.26	.68	12/12/19 19:51	
Dichloromethane	3.8 U	3.8	2.2	.68	12/12/19 19:51	
Ethylbenzene	**0.63 J**	3.8	0.16	.68	12/12/19 19:51	
Isopropylbenzene (Cumene)	3.8 U	3.8	0.16	.68	12/12/19 19:51	
Methyl Acetate	3.8 U	3.8	0.65	.68	12/12/19 19:51	
Methyl tert-Butyl Ether	3.8 U	3.8	0.16	.68	12/12/19 19:51	
Methylcyclohexane	**3.7 J**	3.8	0.24	.68	12/12/19 19:51	
Styrene	3.8 U	3.8	0.16	.68	12/12/19 19:51	
Tetrachloroethene (PCE)	3.8 U	3.8	0.18	.68	12/12/19 19:51	
Toluene	**2.3 J**	3.8	0.16	.68	12/12/19 19:51	

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 11:50
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB9 11-13	**Units:**	ug/Kg
Lab Code:	R1911947-007	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	3.8 U	3.8	0.17	.68	12/12/19 19:51	
Trichlorofluoromethane (CFC 11)	3.8 U	3.8	0.20	.68	12/12/19 19:51	
Vinyl Chloride	3.8 U	3.8	0.36	.68	12/12/19 19:51	
cis-1,2-Dichloroethene	3.8 U	3.8	0.16	.68	12/12/19 19:51	
cis-1,3-Dichloropropene	3.8 U	3.8	0.16	.68	12/12/19 19:51	
m,p-Xylenes	**2.8 J**	7.7	0.29	.68	12/12/19 19:51	
o-Xylene	**0.93 J**	3.8	0.16	.68	12/12/19 19:51	
trans-1,2-Dichloroethene	3.8 U	3.8	0.16	.68	12/12/19 19:51	
trans-1,3-Dichloropropene	3.8 U	3.8	0.16	.68	12/12/19 19:51	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	87	31 - 154	12/12/19 19:51	
Dibromofluoromethane	91	63 - 138	12/12/19 19:51	
Toluene-d8	96	66 - 138	12/12/19 19:51	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
000109-66-0	Pentane	1.70	4.4	JN
000107-83-5	Pentane, 2-methyl-	2.42	4.5	JN

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 12:30
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB10 2-4	**Units:**	ug/Kg
Lab Code:	R1911947-008	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	3.9 U	3.9	0.16	.69	12/12/19 20:14	
1,1,2,2-Tetrachloroethane	3.9 U	3.9	0.16	.69	12/12/19 20:14	
1,1,2-Trichloroethane	3.9 U	3.9	0.16	.69	12/12/19 20:14	
1,1,2-Trichloro-1,2,2-trifluoroethane	3.9 U	3.9	0.16	.69	12/12/19 20:14	
1,1-Dichloroethane (1,1-DCA)	3.9 U	3.9	0.16	.69	12/12/19 20:14	
1,1-Dichloroethene (1,1-DCE)	3.9 U	3.9	0.23	.69	12/12/19 20:14	
1,2,3-Trichlorobenzene	3.9 U	3.9	0.41	.69	12/12/19 20:14	
1,2,4-Trichlorobenzene	3.9 U	3.9	0.33	.69	12/12/19 20:14	
1,2-Dibromo-3-chloropropane (DBCP)	3.9 U	3.9	0.23	.69	12/12/19 20:14	
1,2-Dibromoethane	3.9 U	3.9	0.16	.69	12/12/19 20:14	
1,2-Dichlorobenzene	3.9 U	3.9	0.16	.69	12/12/19 20:14	
1,2-Dichloroethane	3.9 U	3.9	0.16	.69	12/12/19 20:14	
1,2-Dichloropropane	3.9 U	3.9	0.16	.69	12/12/19 20:14	
1,3-Dichlorobenzene	3.9 U	3.9	0.16	.69	12/12/19 20:14	
1,4-Dichlorobenzene	3.9 U	3.9	0.17	.69	12/12/19 20:14	
1,4-Dioxane	77 U	77	16	.69	12/12/19 20:14	
2-Butanone (MEK)	3.9 U	3.9	1.6	.69	12/12/19 20:14	
2-Hexanone	3.9 U	3.9	0.28	.69	12/12/19 20:14	
4-Methyl-2-pentanone	3.9 U	3.9	0.18	.69	12/12/19 20:14	
Acetone	**28**	3.9	3.7	.69	12/12/19 20:14	
Benzene	3.9 U	3.9	0.16	.69	12/12/19 20:14	
Bromochloromethane	3.9 U	3.9	0.16	.69	12/12/19 20:14	
Bromodichloromethane	3.9 U	3.9	0.16	.69	12/12/19 20:14	
Bromoform	3.9 U	3.9	0.39	.69	12/12/19 20:14	
Bromomethane	3.9 U	3.9	1.7	.69	12/12/19 20:14	
Carbon Disulfide	3.9 U	3.9	0.23	.69	12/12/19 20:14	
Carbon Tetrachloride	3.9 U	3.9	0.21	.69	12/12/19 20:14	
Chlorobenzene	3.9 U	3.9	0.16	.69	12/12/19 20:14	
Chloroethane	3.9 U	3.9	0.16	.69	12/12/19 20:14	
Chloroform	3.9 U	3.9	0.16	.69	12/12/19 20:14	
Chloromethane	3.9 U	3.9	1.1	.69	12/12/19 20:14	
Cyclohexane	3.9 U	3.9	0.21	.69	12/12/19 20:14	
Dibromochloromethane	3.9 U	3.9	0.16	.69	12/12/19 20:14	
Dichlorodifluoromethane (CFC 12)	3.9 U	3.9	0.26	.69	12/12/19 20:14	
Dichloromethane	3.9 U	3.9	2.2	.69	12/12/19 20:14	
Ethylbenzene	3.9 U	3.9	0.16	.69	12/12/19 20:14	
Isopropylbenzene (Cumene)	3.9 U	3.9	0.16	.69	12/12/19 20:14	
Methyl Acetate	**1.6 J**	3.9	0.65	.69	12/12/19 20:14	
Methyl tert-Butyl Ether	3.9 U	3.9	0.16	.69	12/12/19 20:14	
Methylcyclohexane	3.9 U	3.9	0.24	.69	12/12/19 20:14	
Styrene	3.9 U	3.9	0.16	.69	12/12/19 20:14	
Tetrachloroethene (PCE)	3.9 U	3.9	0.18	.69	12/12/19 20:14	
Toluene	**0.38 J**	3.9	0.16	.69	12/12/19 20:14	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 12:30
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB10 2-4	**Units:**	ug/Kg
Lab Code:	R1911947-008	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	3.9 U	3.9	0.17	.69	12/12/19 20:14	
Trichlorofluoromethane (CFC 11)	3.9 U	3.9	0.21	.69	12/12/19 20:14	
Vinyl Chloride	3.9 U	3.9	0.36	.69	12/12/19 20:14	
cis-1,2-Dichloroethene	3.9 U	3.9	0.16	.69	12/12/19 20:14	
cis-1,3-Dichloropropene	3.9 U	3.9	0.16	.69	12/12/19 20:14	
m,p-Xylenes	7.7 U	7.7	0.29	.69	12/12/19 20:14	
o-Xylene	3.9 U	3.9	0.16	.69	12/12/19 20:14	
trans-1,2-Dichloroethene	3.9 U	3.9	0.16	.69	12/12/19 20:14	
trans-1,3-Dichloropropene	3.9 U	3.9	0.16	.69	12/12/19 20:14	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	31 - 154	12/12/19 20:14	
Dibromofluoromethane	92	63 - 138	12/12/19 20:14	
Toluene-d8	96	66 - 138	12/12/19 20:14	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 12:30
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB10 12-14	**Units:**	ug/Kg
Lab Code:	R1911947-009	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	3.4 U	3.4	0.14	.62	12/12/19 20:37	
1,1,2,2-Tetrachloroethane	3.4 U	3.4	0.14	.62	12/12/19 20:37	
1,1,2-Trichloroethane	3.4 U	3.4	0.14	.62	12/12/19 20:37	
1,1,2-Trichloro-1,2,2-trifluoroethane	3.4 U	3.4	0.14	.62	12/12/19 20:37	
1,1-Dichloroethane (1,1-DCA)	3.4 U	3.4	0.14	.62	12/12/19 20:37	
1,1-Dichloroethene (1,1-DCE)	3.4 U	3.4	0.20	.62	12/12/19 20:37	
1,2,3-Trichlorobenzene	3.4 U	3.4	0.36	.62	12/12/19 20:37	
1,2,4-Trichlorobenzene	3.4 U	3.4	0.29	.62	12/12/19 20:37	
1,2-Dibromo-3-chloropropane (DBCP)	3.4 U	3.4	0.20	.62	12/12/19 20:37	
1,2-Dibromoethane	3.4 U	3.4	0.14	.62	12/12/19 20:37	
1,2-Dichlorobenzene	3.4 U	3.4	0.14	.62	12/12/19 20:37	
1,2-Dichloroethane	3.4 U	3.4	0.14	.62	12/12/19 20:37	
1,2-Dichloropropane	3.4 U	3.4	0.14	.62	12/12/19 20:37	
1,3-Dichlorobenzene	3.4 U	3.4	0.14	.62	12/12/19 20:37	
1,4-Dichlorobenzene	3.4 U	3.4	0.16	.62	12/12/19 20:37	
1,4-Dioxane	69 U	69	14	.62	12/12/19 20:37	
2-Butanone (MEK)	**3.1 J**	3.4	1.4	.62	12/12/19 20:37	
2-Hexanone	3.4 U	3.4	0.25	.62	12/12/19 20:37	
4-Methyl-2-pentanone	3.4 U	3.4	0.16	.62	12/12/19 20:37	
Acetone	**140 E**	3.4	3.3	.62	12/12/19 20:37	
Benzene	3.4 U	3.4	0.14	.62	12/12/19 20:37	
Bromochloromethane	3.4 U	3.4	0.14	.62	12/12/19 20:37	
Bromodichloromethane	3.4 U	3.4	0.14	.62	12/12/19 20:37	
Bromoform	3.4 U	3.4	0.35	.62	12/12/19 20:37	
Bromomethane	3.4 U	3.4	1.5	.62	12/12/19 20:37	
Carbon Disulfide	3.4 U	3.4	0.20	.62	12/12/19 20:37	
Carbon Tetrachloride	3.4 U	3.4	0.18	.62	12/12/19 20:37	
Chlorobenzene	3.4 U	3.4	0.14	.62	12/12/19 20:37	
Chloroethane	3.4 U	3.4	0.14	.62	12/12/19 20:37	
Chloroform	3.4 U	3.4	0.14	.62	12/12/19 20:37	
Chloromethane	3.4 U	3.4	0.96	.62	12/12/19 20:37	
Cyclohexane	3.4 U	3.4	0.18	.62	12/12/19 20:37	
Dibromochloromethane	3.4 U	3.4	0.14	.62	12/12/19 20:37	
Dichlorodifluoromethane (CFC 12)	3.4 U	3.4	0.23	.62	12/12/19 20:37	
Dichloromethane	3.4 U	3.4	2.0	.62	12/12/19 20:37	
Ethylbenzene	3.4 U	3.4	0.14	.62	12/12/19 20:37	
Isopropylbenzene (Cumene)	3.4 U	3.4	0.14	.62	12/12/19 20:37	
Methyl Acetate	**22**	3.4	0.58	.62	12/12/19 20:37	
Methyl tert-Butyl Ether	**0.25 J**	3.4	0.14	.62	12/12/19 20:37	
Methylcyclohexane	3.4 U	3.4	0.22	.62	12/12/19 20:37	
Styrene	3.4 U	3.4	0.14	.62	12/12/19 20:37	
Tetrachloroethene (PCE)	3.4 U	3.4	0.16	.62	12/12/19 20:37	
Toluene	**0.22 J**	3.4	0.14	.62	12/12/19 20:37	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 12:30
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB10 12-14	**Units:**	ug/Kg
Lab Code:	R1911947-009	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	3.4 U	3.4	0.16	.62	12/12/19 20:37	
Trichlorofluoromethane (CFC 11)	3.4 U	3.4	0.18	.62	12/12/19 20:37	
Vinyl Chloride	3.4 U	3.4	0.32	.62	12/12/19 20:37	
cis-1,2-Dichloroethene	3.4 U	3.4	0.14	.62	12/12/19 20:37	
cis-1,3-Dichloropropene	3.4 U	3.4	0.14	.62	12/12/19 20:37	
m,p-Xylenes	6.9 U	6.9	0.26	.62	12/12/19 20:37	
o-Xylene	3.4 U	3.4	0.14	.62	12/12/19 20:37	
trans-1,2-Dichloroethene	3.4 U	3.4	0.14	.62	12/12/19 20:37	
trans-1,3-Dichloropropene	3.4 U	3.4	0.14	.62	12/12/19 20:37	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	31 - 154	12/12/19 20:37	
Dibromofluoromethane	91	63 - 138	12/12/19 20:37	
Toluene-d8	99	66 - 138	12/12/19 20:37	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
000109-66-0	Pentane	1.69	3.5	JN
000107-83-5	Pentane, 2-methyl-	2.42	6.1	JN
	unknown	2.50	3.6	J

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 12:30
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB10 12-14	**Units:**	ug/Kg
Lab Code:	R1911947-009	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	390 U	390	16	71	12/16/19 15:27	
1,1,2,2-Tetrachloroethane	390 U	390	16	71	12/16/19 15:27	
1,1,2-Trichloroethane	390 U	390	16	71	12/16/19 15:27	
1,1,2-Trichloro-1,2,2-trifluoroethane	390 U	390	16	71	12/16/19 15:27	
1,1-Dichloroethane (1,1-DCA)	390 U	390	16	71	12/16/19 15:27	
1,1-Dichloroethene (1,1-DCE)	390 U	390	23	71	12/16/19 15:27	
1,2,3-Trichlorobenzene	390 U	390	41	71	12/16/19 15:27	
1,2,4-Trichlorobenzene	390 U	390	33	71	12/16/19 15:27	
1,2-Dibromo-3-chloropropane (DBCP)	390 U	390	23	71	12/16/19 15:27	
1,2-Dibromoethane	390 U	390	16	71	12/16/19 15:27	
1,2-Dichlorobenzene	390 U	390	16	71	12/16/19 15:27	
1,2-Dichloroethane	390 U	390	16	71	12/16/19 15:27	
1,2-Dichloropropane	390 U	390	16	71	12/16/19 15:27	
1,3-Dichlorobenzene	390 U	390	16	71	12/16/19 15:27	
1,4-Dichlorobenzene	390 U	390	18	71	12/16/19 15:27	
1,4-Dioxane	7800 U	7800	1600	71	12/16/19 15:27	
2-Butanone (MEK)	390 U	390	160	71	12/16/19 15:27	
2-Hexanone	390 U	390	29	71	12/16/19 15:27	
4-Methyl-2-pentanone	390 U	390	19	71	12/16/19 15:27	
Acetone	**560 D**	390	370	71	12/16/19 15:27	
Benzene	390 U	390	16	71	12/16/19 15:27	
Bromochloromethane	390 U	390	16	71	12/16/19 15:27	
Bromodichloromethane	390 U	390	16	71	12/16/19 15:27	
Bromoform	390 U	390	40	71	12/16/19 15:27	
Bromomethane	390 U	390	170	71	12/16/19 15:27	
Carbon Disulfide	390 U	390	23	71	12/16/19 15:27	
Carbon Tetrachloride	390 U	390	21	71	12/16/19 15:27	
Chlorobenzene	390 U	390	16	71	12/16/19 15:27	
Chloroethane	390 U	390	16	71	12/16/19 15:27	
Chloroform	390 U	390	16	71	12/16/19 15:27	
Chloromethane	390 U	390	110	71	12/16/19 15:27	
Cyclohexane	390 U	390	21	71	12/16/19 15:27	
Dibromochloromethane	390 U	390	16	71	12/16/19 15:27	
Dichlorodifluoromethane (CFC 12)	390 U	390	26	71	12/16/19 15:27	
Dichloromethane	390 U	390	220	71	12/16/19 15:27	
Ethylbenzene	390 U	390	16	71	12/16/19 15:27	
Isopropylbenzene (Cumene)	390 U	390	16	71	12/16/19 15:27	
Methyl Acetate	**260 DJ**	390	66	71	12/16/19 15:27	
Methyl tert-Butyl Ether	390 U	390	16	71	12/16/19 15:27	
Methylcyclohexane	390 U	390	25	71	12/16/19 15:27	
Styrene	390 U	390	16	71	12/16/19 15:27	
Tetrachloroethene (PCE)	390 U	390	19	71	12/16/19 15:27	
Toluene	390 U	390	16	71	12/16/19 15:27	

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 12:30
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB10 12-14	**Units:**	ug/Kg
Lab Code:	R1911947-009	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	390 U	390	18	71	12/16/19 15:27	
Trichlorofluoromethane (CFC 11)	390 U	390	21	71	12/16/19 15:27	
Vinyl Chloride	390 U	390	37	71	12/16/19 15:27	
cis-1,2-Dichloroethene	390 U	390	16	71	12/16/19 15:27	
cis-1,3-Dichloropropene	390 U	390	16	71	12/16/19 15:27	
m,p-Xylenes	780 U	780	30	71	12/16/19 15:27	
o-Xylene	390 U	390	16	71	12/16/19 15:27	
trans-1,2-Dichloroethene	390 U	390	16	71	12/16/19 15:27	
trans-1,3-Dichloropropene	390 U	390	16	71	12/16/19 15:27	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	31 - 154	12/16/19 15:27	
Dibromofluoromethane	82	63 - 138	12/16/19 15:27	
Toluene-d8	96	66 - 138	12/16/19 15:27	

Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 09:15
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB8 1-2	**Units:**	ug/Kg
Lab Code:	R1911947-001	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	380 U	380	90	1	12/23/19 12:24	12/12/19	
2,3,4,6-Tetrachlorophenol	380 U	380	79	1	12/23/19 12:24	12/12/19	
2,4,5-Trichlorophenol	380 U	380	330	1	12/23/19 12:24	12/12/19	
2,4,6-Trichlorophenol	380 U	380	67	1	12/23/19 12:24	12/12/19	
2,4-Dichlorophenol	380 U	380	81	1	12/23/19 12:24	12/12/19	
2,4-Dimethylphenol	380 U	380	83	1	12/23/19 12:24	12/12/19	
2,4-Dinitrophenol	1900 U	1900	140	1	12/23/19 12:24	12/12/19	
2,4-Dinitrotoluene	380 U	380	150	1	12/23/19 12:24	12/12/19	
2,6-Dinitrotoluene	380 U	380	110	1	12/23/19 12:24	12/12/19	
2-Chloronaphthalene	380 U	380	91	1	12/23/19 12:24	12/12/19	
2-Chlorophenol	380 U	380	93	1	12/23/19 12:24	12/12/19	
2-Methylnaphthalene	380 U	380	83	1	12/23/19 12:24	12/12/19	
2-Methylphenol	380 U	380	82	1	12/23/19 12:24	12/12/19	
2-Nitroaniline	1900 U	1900	120	1	12/23/19 12:24	12/12/19	
2-Nitrophenol	380 U	380	110	1	12/23/19 12:24	12/12/19	
3,3'-Dichlorobenzidine	380 U	380	79	1	12/23/19 12:24	12/12/19	
3- and 4-Methylphenol Coelution	380 U	380	73	1	12/23/19 12:24	12/12/19	
3-Nitroaniline	1900 U	1900	81	1	12/23/19 12:24	12/12/19	
4,6-Dinitro-2-methylphenol	1900 U	1900	170	1	12/23/19 12:24	12/12/19	
4-Bromophenyl Phenyl Ether	380 U	380	140	1	12/23/19 12:24	12/12/19	
4-Chloro-3-methylphenol	380 U	380	83	1	12/23/19 12:24	12/12/19	
4-Chloroaniline	380 U	380	90	1	12/23/19 12:24	12/12/19	
4-Chlorophenyl Phenyl Ether	380 U	380	91	1	12/23/19 12:24	12/12/19	
4-Nitroaniline	1900 U	1900	81	1	12/23/19 12:24	12/12/19	
4-Nitrophenol	1900 U	1900	130	1	12/23/19 12:24	12/12/19	
Acenaphthene	380 U	380	85	1	12/23/19 12:24	12/12/19	
Acenaphthylene	380 U	380	100	1	12/23/19 12:24	12/12/19	
Acetophenone	380 U	380	86	1	12/23/19 12:24	12/12/19	
Anthracene	380 U	380	110	1	12/23/19 12:24	12/12/19	
Atrazine	380 U	380	150	1	12/23/19 12:24	12/12/19	
Benz(a)anthracene	380 U	380	120	1	12/23/19 12:24	12/12/19	
Benzaldehyde	1900 U	1900	75	1	12/23/19 12:24	12/12/19	
Benzo(a)pyrene	380 U	380	140	1	12/23/19 12:24	12/12/19	
Benzo(b)fluoranthene	380 U	380	130	1	12/23/19 12:24	12/12/19	
Benzo(g,h,i)perylene	380 U	380	100	1	12/23/19 12:24	12/12/19	
Benzo(k)fluoranthene	380 U	380	140	1	12/23/19 12:24	12/12/19	
Biphenyl	380 U	380	93	1	12/23/19 12:24	12/12/19	
2,2'-Oxybis(1-chloropropane)	380 U	380	150	1	12/23/19 12:24	12/12/19	
Bis(2-chloroethoxy)methane	380 U	380	110	1	12/23/19 12:24	12/12/19	
Bis(2-chloroethyl) Ether	380 U	380	99	1	12/23/19 12:24	12/12/19	
Bis(2-ethylhexyl) Phthalate	570 U	570	110	1	12/23/19 12:24	12/12/19	
Butyl Benzyl Phthalate	380 U	380	94	1	12/23/19 12:24	12/12/19	
Caprolactam	380 U	380	99	1	12/23/19 12:24	12/12/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 09:15
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB8 1-2	**Units:**	ug/Kg
Lab Code:	R1911947-001	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	380 U	380	110	1	12/23/19 12:24	12/12/19	
Chrysene	380 U	380	140	1	12/23/19 12:24	12/12/19	
Di-n-butyl Phthalate	380 U	380	120	1	12/23/19 12:24	12/12/19	
Di-n-octyl Phthalate	380 U	380	120	1	12/23/19 12:24	12/12/19	
Dibenz(a,h)anthracene	380 U	380	120	1	12/23/19 12:24	12/12/19	
Dibenzofuran	380 U	380	75	1	12/23/19 12:24	12/12/19	
Diethyl Phthalate	380 U	380	81	1	12/23/19 12:24	12/12/19	
Dimethyl Phthalate	380 U	380	85	1	12/23/19 12:24	12/12/19	
Fluoranthene	380 U	380	140	1	12/23/19 12:24	12/12/19	
Fluorene	380 U	380	87	1	12/23/19 12:24	12/12/19	
Hexachlorobenzene	380 U	380	120	1	12/23/19 12:24	12/12/19	
Hexachlorobutadiene	380 U	380	92	1	12/23/19 12:24	12/12/19	
Hexachlorocyclopentadiene	380 U	380	83	1	12/23/19 12:24	12/12/19	
Hexachloroethane	380 U	380	98	1	12/23/19 12:24	12/12/19	
Indeno(1,2,3-cd)pyrene	380 U	380	130	1	12/23/19 12:24	12/12/19	
Isophorone	380 U	380	110	1	12/23/19 12:24	12/12/19	
N-Nitrosodi-n-propylamine	380 U	380	110	1	12/23/19 12:24	12/12/19	
N-Nitrosodiphenylamine	380 U	380	260	1	12/23/19 12:24	12/12/19	
Naphthalene	380 U	380	98	1	12/23/19 12:24	12/12/19	
Nitrobenzene	380 U	380	98	1	12/23/19 12:24	12/12/19	
Pentachlorophenol (PCP)	1900 U	1900	130	1	12/23/19 12:24	12/12/19	
Phenanthrene	380 U	380	110	1	12/23/19 12:24	12/12/19	
Phenol	380 U	380	90	1	12/23/19 12:24	12/12/19	
Pyrene	380 U	380	150	1	12/23/19 12:24	12/12/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	83	10 - 109	12/23/19 12:24	
2-Fluorobiphenyl	61	10 - 102	12/23/19 12:24	
2-Fluorophenol	50	10 - 88	12/23/19 12:24	
Nitrobenzene-d5	52	10 - 95	12/23/19 12:24	
Phenol-d6	49	10 - 145	12/23/19 12:24	
Terphenyl-d14	89	10 - 106	12/23/19 12:24	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	3.42	2200	J
	unknown	6.24	200	J

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 09:40
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB8 6-8	**Units:**	ug/Kg
Lab Code:	R1911947-002	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	370 U	370	89	1	12/23/19 12:52	12/12/19	
2,3,4,6-Tetrachlorophenol	370 U	370	79	1	12/23/19 12:52	12/12/19	
2,4,5-Trichlorophenol	370 U	370	320	1	12/23/19 12:52	12/12/19	
2,4,6-Trichlorophenol	370 U	370	66	1	12/23/19 12:52	12/12/19	
2,4-Dichlorophenol	370 U	370	80	1	12/23/19 12:52	12/12/19	
2,4-Dimethylphenol	370 U	370	82	1	12/23/19 12:52	12/12/19	
2,4-Dinitrophenol	1900 U	1900	140	1	12/23/19 12:52	12/12/19	
2,4-Dinitrotoluene	370 U	370	150	1	12/23/19 12:52	12/12/19	
2,6-Dinitrotoluene	370 U	370	110	1	12/23/19 12:52	12/12/19	
2-Chloronaphthalene	370 U	370	90	1	12/23/19 12:52	12/12/19	
2-Chlorophenol	370 U	370	92	1	12/23/19 12:52	12/12/19	
2-Methylnaphthalene	370 U	370	82	1	12/23/19 12:52	12/12/19	
2-Methylphenol	370 U	370	81	1	12/23/19 12:52	12/12/19	
2-Nitroaniline	1900 U	1900	120	1	12/23/19 12:52	12/12/19	
2-Nitrophenol	370 U	370	110	1	12/23/19 12:52	12/12/19	
3,3'-Dichlorobenzidine	370 U	370	79	1	12/23/19 12:52	12/12/19	
3- and 4-Methylphenol Coelution	370 U	370	72	1	12/23/19 12:52	12/12/19	
3-Nitroaniline	1900 U	1900	80	1	12/23/19 12:52	12/12/19	
4,6-Dinitro-2-methylphenol	1900 U	1900	160	1	12/23/19 12:52	12/12/19	
4-Bromophenyl Phenyl Ether	370 U	370	140	1	12/23/19 12:52	12/12/19	
4-Chloro-3-methylphenol	370 U	370	82	1	12/23/19 12:52	12/12/19	
4-Chloroaniline	370 U	370	89	1	12/23/19 12:52	12/12/19	
4-Chlorophenyl Phenyl Ether	370 U	370	90	1	12/23/19 12:52	12/12/19	
4-Nitroaniline	1900 U	1900	80	1	12/23/19 12:52	12/12/19	
4-Nitrophenol	1900 U	1900	130	1	12/23/19 12:52	12/12/19	
Acenaphthene	370 U	370	84	1	12/23/19 12:52	12/12/19	
Acenaphthylene	370 U	370	99	1	12/23/19 12:52	12/12/19	
Acetophenone	370 U	370	86	1	12/23/19 12:52	12/12/19	
Anthracene	370 U	370	110	1	12/23/19 12:52	12/12/19	
Atrazine	370 U	370	150	1	12/23/19 12:52	12/12/19	
Benz(a)anthracene	370 U	370	120	1	12/23/19 12:52	12/12/19	
Benzaldehyde	1900 U	1900	74	1	12/23/19 12:52	12/12/19	
Benzo(a)pyrene	370 U	370	140	1	12/23/19 12:52	12/12/19	
Benzo(b)fluoranthene	370 U	370	130	1	12/23/19 12:52	12/12/19	
Benzo(g,h,i)perylene	370 U	370	99	1	12/23/19 12:52	12/12/19	
Benzo(k)fluoranthene	370 U	370	140	1	12/23/19 12:52	12/12/19	
Biphenyl	370 U	370	92	1	12/23/19 12:52	12/12/19	
2,2'-Oxybis(1-chloropropane)	370 U	370	150	1	12/23/19 12:52	12/12/19	
Bis(2-chloroethoxy)methane	370 U	370	100	1	12/23/19 12:52	12/12/19	
Bis(2-chloroethyl) Ether	370 U	370	98	1	12/23/19 12:52	12/12/19	
Bis(2-ethylhexyl) Phthalate	570 U	570	100	1	12/23/19 12:52	12/12/19	
Butyl Benzyl Phthalate	370 U	370	94	1	12/23/19 12:52	12/12/19	
Caprolactam	370 U	370	98	1	12/23/19 12:52	12/12/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 09:40
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB8 6-8	**Units:**	ug/Kg
Lab Code:	R1911947-002	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	370 U	370	110	1	12/23/19 12:52	12/12/19	
Chrysene	370 U	370	140	1	12/23/19 12:52	12/12/19	
Di-n-butyl Phthalate	370 U	370	120	1	12/23/19 12:52	12/12/19	
Di-n-octyl Phthalate	370 U	370	120	1	12/23/19 12:52	12/12/19	
Dibenz(a,h)anthracene	370 U	370	120	1	12/23/19 12:52	12/12/19	
Dibenzofuran	370 U	370	74	1	12/23/19 12:52	12/12/19	
Diethyl Phthalate	370 U	370	80	1	12/23/19 12:52	12/12/19	
Dimethyl Phthalate	370 U	370	84	1	12/23/19 12:52	12/12/19	
Fluoranthene	370 U	370	140	1	12/23/19 12:52	12/12/19	
Fluorene	370 U	370	87	1	12/23/19 12:52	12/12/19	
Hexachlorobenzene	370 U	370	120	1	12/23/19 12:52	12/12/19	
Hexachlorobutadiene	370 U	370	91	1	12/23/19 12:52	12/12/19	
Hexachlorocyclopentadiene	370 U	370	82	1	12/23/19 12:52	12/12/19	
Hexachloroethane	370 U	370	97	1	12/23/19 12:52	12/12/19	
Indeno(1,2,3-cd)pyrene	370 U	370	130	1	12/23/19 12:52	12/12/19	
Isophorone	370 U	370	110	1	12/23/19 12:52	12/12/19	
N-Nitrosodi-n-propylamine	370 U	370	100	1	12/23/19 12:52	12/12/19	
N-Nitrosodiphenylamine	370 U	370	250	1	12/23/19 12:52	12/12/19	
Naphthalene	370 U	370	97	1	12/23/19 12:52	12/12/19	
Nitrobenzene	370 U	370	97	1	12/23/19 12:52	12/12/19	
Pentachlorophenol (PCP)	1900 U	1900	130	1	12/23/19 12:52	12/12/19	
Phenanthrene	370 U	370	110	1	12/23/19 12:52	12/12/19	
Phenol	370 U	370	89	1	12/23/19 12:52	12/12/19	
Pyrene	370 U	370	150	1	12/23/19 12:52	12/12/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	87	10 - 109	12/23/19 12:52	
2-Fluorobiphenyl	63	10 - 102	12/23/19 12:52	
2-Fluorophenol	56	10 - 88	12/23/19 12:52	
Nitrobenzene-d5	64	10 - 95	12/23/19 12:52	
Phenol-d6	55	10 - 145	12/23/19 12:52	
Terphenyl-d14	96	10 - 106	12/23/19 12:52	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	3.43	4400	J
	unknown	6.05	470	J
	unknown	6.24	730	J

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB11 1-2	**Units:**	ug/Kg
Lab Code:	R1911947-003	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	410 U	410	96	1	12/23/19 13:20	12/12/19	
2,3,4,6-Tetrachlorophenol	410 U	410	85	1	12/23/19 13:20	12/12/19	
2,4,5-Trichlorophenol	410 U	410	350	1	12/23/19 13:20	12/12/19	
2,4,6-Trichlorophenol	410 U	410	72	1	12/23/19 13:20	12/12/19	
2,4-Dichlorophenol	410 U	410	87	1	12/23/19 13:20	12/12/19	
2,4-Dimethylphenol	410 U	410	89	1	12/23/19 13:20	12/12/19	
2,4-Dinitrophenol	2100 U	2100	150	1	12/23/19 13:20	12/12/19	
2,4-Dinitrotoluene	410 U	410	160	1	12/23/19 13:20	12/12/19	
2,6-Dinitrotoluene	410 U	410	120	1	12/23/19 13:20	12/12/19	
2-Chloronaphthalene	410 U	410	98	1	12/23/19 13:20	12/12/19	
2-Chlorophenol	410 U	410	100	1	12/23/19 13:20	12/12/19	
2-Methylnaphthalene	410 U	410	89	1	12/23/19 13:20	12/12/19	
2-Methylphenol	410 U	410	88	1	12/23/19 13:20	12/12/19	
2-Nitroaniline	2100 U	2100	130	1	12/23/19 13:20	12/12/19	
2-Nitrophenol	410 U	410	120	1	12/23/19 13:20	12/12/19	
3,3'-Dichlorobenzidine	410 U	410	85	1	12/23/19 13:20	12/12/19	
3- and 4-Methylphenol Coelution	410 U	410	78	1	12/23/19 13:20	12/12/19	
3-Nitroaniline	2100 U	2100	87	1	12/23/19 13:20	12/12/19	
4,6-Dinitro-2-methylphenol	2100 U	2100	180	1	12/23/19 13:20	12/12/19	
4-Bromophenyl Phenyl Ether	410 U	410	150	1	12/23/19 13:20	12/12/19	
4-Chloro-3-methylphenol	410 U	410	89	1	12/23/19 13:20	12/12/19	
4-Chloroaniline	410 U	410	96	1	12/23/19 13:20	12/12/19	
4-Chlorophenyl Phenyl Ether	410 U	410	98	1	12/23/19 13:20	12/12/19	
4-Nitroaniline	2100 U	2100	87	1	12/23/19 13:20	12/12/19	
4-Nitrophenol	2100 U	2100	140	1	12/23/19 13:20	12/12/19	
Acenaphthene	410 U	410	92	1	12/23/19 13:20	12/12/19	
Acenaphthylene	410 U	410	110	1	12/23/19 13:20	12/12/19	
Acetophenone	410 U	410	93	1	12/23/19 13:20	12/12/19	
Anthracene	410 U	410	120	1	12/23/19 13:20	12/12/19	
Atrazine	410 U	410	160	1	12/23/19 13:20	12/12/19	
Benz(a)anthracene	410 U	410	120	1	12/23/19 13:20	12/12/19	
Benzaldehyde	2100 U	2100	80	1	12/23/19 13:20	12/12/19	
Benzo(a)pyrene	410 U	410	150	1	12/23/19 13:20	12/12/19	
Benzo(b)fluoranthene	410 U	410	140	1	12/23/19 13:20	12/12/19	
Benzo(g,h,i)perylene	410 U	410	110	1	12/23/19 13:20	12/12/19	
Benzo(k)fluoranthene	410 U	410	150	1	12/23/19 13:20	12/12/19	
Biphenyl	410 U	410	100	1	12/23/19 13:20	12/12/19	
2,2'-Oxybis(1-chloropropane)	410 U	410	160	1	12/23/19 13:20	12/12/19	
Bis(2-chloroethoxy)methane	410 U	410	110	1	12/23/19 13:20	12/12/19	
Bis(2-chloroethyl) Ether	410 U	410	110	1	12/23/19 13:20	12/12/19	
Bis(2-ethylhexyl) Phthalate	610 U	610	110	1	12/23/19 13:20	12/12/19	
Butyl Benzyl Phthalate	410 U	410	110	1	12/23/19 13:20	12/12/19	
Caprolactam	410 U	410	110	1	12/23/19 13:20	12/12/19	

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB11 1-2	**Units:**	ug/Kg
Lab Code:	R1911947-003	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	410 U	410	120	1	12/23/19 13:20	12/12/19	
Chrysene	410 U	410	150	1	12/23/19 13:20	12/12/19	
Di-n-butyl Phthalate	410 U	410	130	1	12/23/19 13:20	12/12/19	
Di-n-octyl Phthalate	410 U	410	120	1	12/23/19 13:20	12/12/19	
Dibenz(a,h)anthracene	410 U	410	130	1	12/23/19 13:20	12/12/19	
Dibenzofuran	410 U	410	80	1	12/23/19 13:20	12/12/19	
Diethyl Phthalate	410 U	410	87	1	12/23/19 13:20	12/12/19	
Dimethyl Phthalate	410 U	410	92	1	12/23/19 13:20	12/12/19	
Fluoranthene	410 U	410	150	1	12/23/19 13:20	12/12/19	
Fluorene	410 U	410	94	1	12/23/19 13:20	12/12/19	
Hexachlorobenzene	410 U	410	130	1	12/23/19 13:20	12/12/19	
Hexachlorobutadiene	410 U	410	99	1	12/23/19 13:20	12/12/19	
Hexachlorocyclopentadiene	410 U	410	89	1	12/23/19 13:20	12/12/19	
Hexachloroethane	410 U	410	110	1	12/23/19 13:20	12/12/19	
Indeno(1,2,3-cd)pyrene	410 U	410	140	1	12/23/19 13:20	12/12/19	
Isophorone	410 U	410	120	1	12/23/19 13:20	12/12/19	
N-Nitrosodi-n-propylamine	410 U	410	110	1	12/23/19 13:20	12/12/19	
N-Nitrosodiphenylamine	410 U	410	280	1	12/23/19 13:20	12/12/19	
Naphthalene	410 U	410	110	1	12/23/19 13:20	12/12/19	
Nitrobenzene	410 U	410	110	1	12/23/19 13:20	12/12/19	
Pentachlorophenol (PCP)	2100 U	2100	140	1	12/23/19 13:20	12/12/19	
Phenanthrene	410 U	410	120	1	12/23/19 13:20	12/12/19	
Phenol	410 U	410	96	1	12/23/19 13:20	12/12/19	
Pyrene	410 U	410	160	1	12/23/19 13:20	12/12/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	92	10 - 109	12/23/19 13:20	
2-Fluorobiphenyl	54	10 - 102	12/23/19 13:20	
2-Fluorophenol	46	10 - 88	12/23/19 13:20	
Nitrobenzene-d5	48	10 - 95	12/23/19 13:20	
Phenol-d6	47	10 - 145	12/23/19 13:20	
Terphenyl-d14	95	10 - 106	12/23/19 13:20	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
000080-05-7	Phenol, 4,4'-(1-methylethylidene)b	10.57	220	JN
1000309-27-0	Oxalic acid, octadecyl propyl este	12.10	420	JN
1000342-70-4	1-Octadecanesulphonyl chloride	12.72	190	JN
018835-32-0	1-Tricosene	13.39	950	JN
	unknown hydrocarbon	14.11	190	J
	unknown hydrocarbon	14.87	240	J

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB11 1-2	**Units:**	ug/Kg
Lab Code:	R1911947-003	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown hydrocarbon	16.36	190	J
000083-47-6	.gamma.-Sitosterol	17.83	320	JN
	unknown	3.41	2200	J
	unknown	6.05	620	J
	unknown	6.23	340	J
000057-10-3	n-Hexadecanoic acid	9.58	220	JN

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB11 6-8	**Units:**	ug/Kg
Lab Code:	R1911947-004	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	370 U	370	87	1	12/23/19 13:48	12/12/19	
2,3,4,6-Tetrachlorophenol	370 U	370	77	1	12/23/19 13:48	12/12/19	
2,4,5-Trichlorophenol	370 U	370	320	1	12/23/19 13:48	12/12/19	
2,4,6-Trichlorophenol	370 U	370	65	1	12/23/19 13:48	12/12/19	
2,4-Dichlorophenol	370 U	370	78	1	12/23/19 13:48	12/12/19	
2,4-Dimethylphenol	370 U	370	80	1	12/23/19 13:48	12/12/19	
2,4-Dinitrophenol	1900 U	1900	140	1	12/23/19 13:48	12/12/19	
2,4-Dinitrotoluene	370 U	370	150	1	12/23/19 13:48	12/12/19	
2,6-Dinitrotoluene	370 U	370	110	1	12/23/19 13:48	12/12/19	
2-Chloronaphthalene	370 U	370	88	1	12/23/19 13:48	12/12/19	
2-Chlorophenol	370 U	370	90	1	12/23/19 13:48	12/12/19	
2-Methylnaphthalene	370 U	370	80	1	12/23/19 13:48	12/12/19	
2-Methylphenol	370 U	370	79	1	12/23/19 13:48	12/12/19	
2-Nitroaniline	1900 U	1900	110	1	12/23/19 13:48	12/12/19	
2-Nitrophenol	370 U	370	110	1	12/23/19 13:48	12/12/19	
3,3'-Dichlorobenzidine	370 U	370	77	1	12/23/19 13:48	12/12/19	
3- and 4-Methylphenol Coelution	370 U	370	70	1	12/23/19 13:48	12/12/19	
3-Nitroaniline	1900 U	1900	78	1	12/23/19 13:48	12/12/19	
4,6-Dinitro-2-methylphenol	1900 U	1900	160	1	12/23/19 13:48	12/12/19	
4-Bromophenyl Phenyl Ether	370 U	370	140	1	12/23/19 13:48	12/12/19	
4-Chloro-3-methylphenol	370 U	370	80	1	12/23/19 13:48	12/12/19	
4-Chloroaniline	370 U	370	87	1	12/23/19 13:48	12/12/19	
4-Chlorophenyl Phenyl Ether	370 U	370	88	1	12/23/19 13:48	12/12/19	
4-Nitroaniline	1900 U	1900	78	1	12/23/19 13:48	12/12/19	
4-Nitrophenol	1900 U	1900	130	1	12/23/19 13:48	12/12/19	
Acenaphthene	370 U	370	82	1	12/23/19 13:48	12/12/19	
Acenaphthylene	370 U	370	97	1	12/23/19 13:48	12/12/19	
Acetophenone	370 U	370	84	1	12/23/19 13:48	12/12/19	
Anthracene	**140 J**	370	110	1	12/23/19 13:48	12/12/19	
Atrazine	370 U	370	150	1	12/23/19 13:48	12/12/19	
Benz(a)anthracene	**620**	370	110	1	12/23/19 13:48	12/12/19	
Benzaldehyde	1900 U	1900	72	1	12/23/19 13:48	12/12/19	
Benzo(a)pyrene	**580**	370	140	1	12/23/19 13:48	12/12/19	
Benzo(b)fluoranthene	**790**	370	130	1	12/23/19 13:48	12/12/19	
Benzo(g,h,i)perylene	**410**	370	97	1	12/23/19 13:48	12/12/19	
Benzo(k)fluoranthene	**310 J**	370	140	1	12/23/19 13:48	12/12/19	
Biphenyl	370 U	370	90	1	12/23/19 13:48	12/12/19	
2,2'-Oxybis(1-chloropropane)	370 U	370	150	1	12/23/19 13:48	12/12/19	
Bis(2-chloroethoxy)methane	370 U	370	98	1	12/23/19 13:48	12/12/19	
Bis(2-chloroethyl) Ether	370 U	370	96	1	12/23/19 13:48	12/12/19	
Bis(2-ethylhexyl) Phthalate	550 U	550	98	1	12/23/19 13:48	12/12/19	
Butyl Benzyl Phthalate	370 U	370	91	1	12/23/19 13:48	12/12/19	
Caprolactam	370 U	370	96	1	12/23/19 13:48	12/12/19	

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB11 6-8	**Units:**	ug/Kg
Lab Code:	R1911947-004	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	**160** J	370	110	1	12/23/19 13:48	12/12/19	
Chrysene	**640**	370	140	1	12/23/19 13:48	12/12/19	
Di-n-butyl Phthalate	370 U	370	120	1	12/23/19 13:48	12/12/19	
Di-n-octyl Phthalate	370 U	370	110	1	12/23/19 13:48	12/12/19	
Dibenz(a,h)anthracene	370 U	370	110	1	12/23/19 13:48	12/12/19	
Dibenzofuran	370 U	370	72	1	12/23/19 13:48	12/12/19	
Diethyl Phthalate	370 U	370	78	1	12/23/19 13:48	12/12/19	
Dimethyl Phthalate	370 U	370	82	1	12/23/19 13:48	12/12/19	
Fluoranthene	**1300**	370	140	1	12/23/19 13:48	12/12/19	
Fluorene	370 U	370	85	1	12/23/19 13:48	12/12/19	
Hexachlorobenzene	370 U	370	120	1	12/23/19 13:48	12/12/19	
Hexachlorobutadiene	370 U	370	89	1	12/23/19 13:48	12/12/19	
Hexachlorocyclopentadiene	370 U	370	80	1	12/23/19 13:48	12/12/19	
Hexachloroethane	370 U	370	95	1	12/23/19 13:48	12/12/19	
Indeno(1,2,3-cd)pyrene	**440**	370	130	1	12/23/19 13:48	12/12/19	
Isophorone	370 U	370	100	1	12/23/19 13:48	12/12/19	
N-Nitrosodi-n-propylamine	370 U	370	98	1	12/23/19 13:48	12/12/19	
N-Nitrosodiphenylamine	370 U	370	250	1	12/23/19 13:48	12/12/19	
Naphthalene	370 U	370	95	1	12/23/19 13:48	12/12/19	
Nitrobenzene	370 U	370	95	1	12/23/19 13:48	12/12/19	
Pentachlorophenol (PCP)	1900 U	1900	130	1	12/23/19 13:48	12/12/19	
Phenanthrene	**650**	370	110	1	12/23/19 13:48	12/12/19	
Phenol	370 U	370	87	1	12/23/19 13:48	12/12/19	
Pyrene	**1300**	370	150	1	12/23/19 13:48	12/12/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	85	10 - 109	12/23/19 13:48	
2-Fluorobiphenyl	60	10 - 102	12/23/19 13:48	
2-Fluorophenol	52	10 - 88	12/23/19 13:48	
Nitrobenzene-d5	57	10 - 95	12/23/19 13:48	
Phenol-d6	53	10 - 145	12/23/19 13:48	
Terphenyl-d14	87	10 - 106	12/23/19 13:48	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
005737-13-3	Cyclopenta(def)phenanthrenone	10.17	150	JN
000192-97-2	Benzo[e]pyrene	14.49	160	JN
000205-99-2	Benz[e]acephenanthrylene	14.85	460	JN
	unknown	3.42	4600	J
	unknown	6.22	390	J
000203-64-5	4H-Cyclopenta[def]phenanthrene	9.63	170	JN

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB11 6-8	**Units:**	ug/Kg
Lab Code:	R1911947-004	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
000084-65-1	9,10-Anthracenedione	9.84	150	JN

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB11 6-8 Dup	**Units:**	ug/Kg
Lab Code:	R1911947-005	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	370 U	370	88	1	12/23/19 15:14	12/12/19	
2,3,4,6-Tetrachlorophenol	370 U	370	78	1	12/23/19 15:14	12/12/19	
2,4,5-Trichlorophenol	370 U	370	320	1	12/23/19 15:14	12/12/19	
2,4,6-Trichlorophenol	370 U	370	65	1	12/23/19 15:14	12/12/19	
2,4-Dichlorophenol	370 U	370	79	1	12/23/19 15:14	12/12/19	
2,4-Dimethylphenol	370 U	370	81	1	12/23/19 15:14	12/12/19	
2,4-Dinitrophenol	1900 U	1900	140	1	12/23/19 15:14	12/12/19	
2,4-Dinitrotoluene	370 U	370	150	1	12/23/19 15:14	12/12/19	
2,6-Dinitrotoluene	370 U	370	110	1	12/23/19 15:14	12/12/19	
2-Chloronaphthalene	370 U	370	89	1	12/23/19 15:14	12/12/19	
2-Chlorophenol	370 U	370	91	1	12/23/19 15:14	12/12/19	
2-Methylnaphthalene	370 U	370	81	1	12/23/19 15:14	12/12/19	
2-Methylphenol	370 U	370	80	1	12/23/19 15:14	12/12/19	
2-Nitroaniline	1900 U	1900	110	1	12/23/19 15:14	12/12/19	
2-Nitrophenol	370 U	370	110	1	12/23/19 15:14	12/12/19	
3,3'-Dichlorobenzidine	370 U	370	78	1	12/23/19 15:14	12/12/19	
3- and 4-Methylphenol Coelution	370 U	370	71	1	12/23/19 15:14	12/12/19	
3-Nitroaniline	1900 U	1900	79	1	12/23/19 15:14	12/12/19	
4,6-Dinitro-2-methylphenol	1900 U	1900	160	1	12/23/19 15:14	12/12/19	
4-Bromophenyl Phenyl Ether	370 U	370	140	1	12/23/19 15:14	12/12/19	
4-Chloro-3-methylphenol	370 U	370	81	1	12/23/19 15:14	12/12/19	
4-Chloroaniline	370 U	370	88	1	12/23/19 15:14	12/12/19	
4-Chlorophenyl Phenyl Ether	370 U	370	89	1	12/23/19 15:14	12/12/19	
4-Nitroaniline	1900 U	1900	79	1	12/23/19 15:14	12/12/19	
4-Nitrophenol	1900 U	1900	130	1	12/23/19 15:14	12/12/19	
Acenaphthene	370 U	370	83	1	12/23/19 15:14	12/12/19	
Acenaphthylene	370 U	370	98	1	12/23/19 15:14	12/12/19	
Acetophenone	370 U	370	84	1	12/23/19 15:14	12/12/19	
Anthracene	370 U	370	110	1	12/23/19 15:14	12/12/19	
Atrazine	370 U	370	150	1	12/23/19 15:14	12/12/19	
Benz(a)anthracene	370 U	370	110	1	12/23/19 15:14	12/12/19	
Benzaldehyde	1900 U	1900	73	1	12/23/19 15:14	12/12/19	
Benzo(a)pyrene	370 U	370	140	1	12/23/19 15:14	12/12/19	
Benzo(b)fluoranthene	370 U	370	130	1	12/23/19 15:14	12/12/19	
Benzo(g,h,i)perylene	370 U	370	98	1	12/23/19 15:14	12/12/19	
Benzo(k)fluoranthene	370 U	370	140	1	12/23/19 15:14	12/12/19	
Biphenyl	370 U	370	91	1	12/23/19 15:14	12/12/19	
2,2'-Oxybis(1-chloropropane)	370 U	370	150	1	12/23/19 15:14	12/12/19	
Bis(2-chloroethoxy)methane	370 U	370	99	1	12/23/19 15:14	12/12/19	
Bis(2-chloroethyl) Ether	370 U	370	96	1	12/23/19 15:14	12/12/19	
Bis(2-ethylhexyl) Phthalate	560 U	560	99	1	12/23/19 15:14	12/12/19	
Butyl Benzyl Phthalate	370 U	370	92	1	12/23/19 15:14	12/12/19	
Caprolactam	370 U	370	96	1	12/23/19 15:14	12/12/19	

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB11 6-8 Dup	**Units:**	ug/Kg
Lab Code:	R1911947-005	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	370 U	370	110	1	12/23/19 15:14	12/12/19	
Chrysene	370 U	370	140	1	12/23/19 15:14	12/12/19	
Di-n-butyl Phthalate	370 U	370	120	1	12/23/19 15:14	12/12/19	
Di-n-octyl Phthalate	370 U	370	110	1	12/23/19 15:14	12/12/19	
Dibenz(a,h)anthracene	370 U	370	110	1	12/23/19 15:14	12/12/19	
Dibenzofuran	370 U	370	73	1	12/23/19 15:14	12/12/19	
Diethyl Phthalate	370 U	370	79	1	12/23/19 15:14	12/12/19	
Dimethyl Phthalate	370 U	370	83	1	12/23/19 15:14	12/12/19	
Fluoranthene	370 U	370	140	1	12/23/19 15:14	12/12/19	
Fluorene	370 U	370	85	1	12/23/19 15:14	12/12/19	
Hexachlorobenzene	370 U	370	120	1	12/23/19 15:14	12/12/19	
Hexachlorobutadiene	370 U	370	90	1	12/23/19 15:14	12/12/19	
Hexachlorocyclopentadiene	370 U	370	81	1	12/23/19 15:14	12/12/19	
Hexachloroethane	370 U	370	95	1	12/23/19 15:14	12/12/19	
Indeno(1,2,3-cd)pyrene	370 U	370	130	1	12/23/19 15:14	12/12/19	
Isophorone	370 U	370	110	1	12/23/19 15:14	12/12/19	
N-Nitrosodi-n-propylamine	370 U	370	99	1	12/23/19 15:14	12/12/19	
N-Nitrosodiphenylamine	370 U	370	250	1	12/23/19 15:14	12/12/19	
Naphthalene	370 U	370	95	1	12/23/19 15:14	12/12/19	
Nitrobenzene	370 U	370	95	1	12/23/19 15:14	12/12/19	
Pentachlorophenol (PCP)	1900 U	1900	130	1	12/23/19 15:14	12/12/19	
Phenanthrene	370 U	370	110	1	12/23/19 15:14	12/12/19	
Phenol	370 U	370	88	1	12/23/19 15:14	12/12/19	
Pyrene	370 U	370	150	1	12/23/19 15:14	12/12/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	68	10 - 109	12/23/19 15:14	
2-Fluorobiphenyl	54	10 - 102	12/23/19 15:14	
2-Fluorophenol	47	10 - 88	12/23/19 15:14	
Nitrobenzene-d5	48	10 - 95	12/23/19 15:14	
Phenol-d6	46	10 - 145	12/23/19 15:14	
Terphenyl-d14	83	10 - 106	12/23/19 15:14	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	3.48	29000	J

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 11:40
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB9 2-4	**Units:**	ug/Kg
Lab Code:	R1911947-006	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	370 U	370	88	1	12/23/19 15:42	12/12/19	
2,3,4,6-Tetrachlorophenol	370 U	370	78	1	12/23/19 15:42	12/12/19	
2,4,5-Trichlorophenol	370 U	370	320	1	12/23/19 15:42	12/12/19	
2,4,6-Trichlorophenol	370 U	370	66	1	12/23/19 15:42	12/12/19	
2,4-Dichlorophenol	370 U	370	79	1	12/23/19 15:42	12/12/19	
2,4-Dimethylphenol	370 U	370	81	1	12/23/19 15:42	12/12/19	
2,4-Dinitrophenol	1900 U	1900	140	1	12/23/19 15:42	12/12/19	
2,4-Dinitrotoluene	370 U	370	150	1	12/23/19 15:42	12/12/19	
2,6-Dinitrotoluene	370 U	370	110	1	12/23/19 15:42	12/12/19	
2-Chloronaphthalene	370 U	370	89	1	12/23/19 15:42	12/12/19	
2-Chlorophenol	370 U	370	91	1	12/23/19 15:42	12/12/19	
2-Methylnaphthalene	370 U	370	81	1	12/23/19 15:42	12/12/19	
2-Methylphenol	370 U	370	80	1	12/23/19 15:42	12/12/19	
2-Nitroaniline	1900 U	1900	110	1	12/23/19 15:42	12/12/19	
2-Nitrophenol	370 U	370	110	1	12/23/19 15:42	12/12/19	
3,3'-Dichlorobenzidine	370 U	370	78	1	12/23/19 15:42	12/12/19	
3- and 4-Methylphenol Coelution	370 U	370	71	1	12/23/19 15:42	12/12/19	
3-Nitroaniline	1900 U	1900	79	1	12/23/19 15:42	12/12/19	
4,6-Dinitro-2-methylphenol	1900 U	1900	160	1	12/23/19 15:42	12/12/19	
4-Bromophenyl Phenyl Ether	370 U	370	140	1	12/23/19 15:42	12/12/19	
4-Chloro-3-methylphenol	370 U	370	81	1	12/23/19 15:42	12/12/19	
4-Chloroaniline	370 U	370	88	1	12/23/19 15:42	12/12/19	
4-Chlorophenyl Phenyl Ether	370 U	370	89	1	12/23/19 15:42	12/12/19	
4-Nitroaniline	1900 U	1900	79	1	12/23/19 15:42	12/12/19	
4-Nitrophenol	1900 U	1900	130	1	12/23/19 15:42	12/12/19	
Acenaphthene	370 U	370	83	1	12/23/19 15:42	12/12/19	
Acenaphthylene	370 U	370	98	1	12/23/19 15:42	12/12/19	
Acetophenone	370 U	370	85	1	12/23/19 15:42	12/12/19	
Anthracene	370 U	370	110	1	12/23/19 15:42	12/12/19	
Atrazine	370 U	370	150	1	12/23/19 15:42	12/12/19	
Benz(a)anthracene	370 U	370	110	1	12/23/19 15:42	12/12/19	
Benzaldehyde	1900 U	1900	73	1	12/23/19 15:42	12/12/19	
Benzo(a)pyrene	370 U	370	140	1	12/23/19 15:42	12/12/19	
Benzo(b)fluoranthene	370 U	370	130	1	12/23/19 15:42	12/12/19	
Benzo(g,h,i)perylene	370 U	370	98	1	12/23/19 15:42	12/12/19	
Benzo(k)fluoranthene	370 U	370	140	1	12/23/19 15:42	12/12/19	
Biphenyl	370 U	370	91	1	12/23/19 15:42	12/12/19	
2,2'-Oxybis(1-chloropropane)	370 U	370	150	1	12/23/19 15:42	12/12/19	
Bis(2-chloroethoxy)methane	370 U	370	99	1	12/23/19 15:42	12/12/19	
Bis(2-chloroethyl) Ether	370 U	370	97	1	12/23/19 15:42	12/12/19	
Bis(2-ethylhexyl) Phthalate	560 U	560	99	1	12/23/19 15:42	12/12/19	
Butyl Benzyl Phthalate	370 U	370	92	1	12/23/19 15:42	12/12/19	
Caprolactam	370 U	370	97	1	12/23/19 15:42	12/12/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 11:40
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB9 2-4	**Units:**	ug/Kg
Lab Code:	R1911947-006	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	370 U	370	110	1	12/23/19 15:42	12/12/19	
Chrysene	370 U	370	140	1	12/23/19 15:42	12/12/19	
Di-n-butyl Phthalate	370 U	370	120	1	12/23/19 15:42	12/12/19	
Di-n-octyl Phthalate	370 U	370	110	1	12/23/19 15:42	12/12/19	
Dibenz(a,h)anthracene	370 U	370	110	1	12/23/19 15:42	12/12/19	
Dibenzofuran	370 U	370	73	1	12/23/19 15:42	12/12/19	
Diethyl Phthalate	370 U	370	79	1	12/23/19 15:42	12/12/19	
Dimethyl Phthalate	370 U	370	83	1	12/23/19 15:42	12/12/19	
Fluoranthene	370 U	370	140	1	12/23/19 15:42	12/12/19	
Fluorene	370 U	370	86	1	12/23/19 15:42	12/12/19	
Hexachlorobenzene	370 U	370	120	1	12/23/19 15:42	12/12/19	
Hexachlorobutadiene	370 U	370	90	1	12/23/19 15:42	12/12/19	
Hexachlorocyclopentadiene	370 U	370	81	1	12/23/19 15:42	12/12/19	
Hexachloroethane	370 U	370	96	1	12/23/19 15:42	12/12/19	
Indeno(1,2,3-cd)pyrene	370 U	370	130	1	12/23/19 15:42	12/12/19	
Isophorone	370 U	370	110	1	12/23/19 15:42	12/12/19	
N-Nitrosodi-n-propylamine	370 U	370	99	1	12/23/19 15:42	12/12/19	
N-Nitrosodiphenylamine	370 U	370	250	1	12/23/19 15:42	12/12/19	
Naphthalene	370 U	370	96	1	12/23/19 15:42	12/12/19	
Nitrobenzene	370 U	370	96	1	12/23/19 15:42	12/12/19	
Pentachlorophenol (PCP)	1900 U	1900	130	1	12/23/19 15:42	12/12/19	
Phenanthrene	370 U	370	110	1	12/23/19 15:42	12/12/19	
Phenol	370 U	370	88	1	12/23/19 15:42	12/12/19	
Pyrene	370 U	370	150	1	12/23/19 15:42	12/12/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	64	10 - 109	12/23/19 15:42	
2-Fluorobiphenyl	54	10 - 102	12/23/19 15:42	
2-Fluorophenol	47	10 - 88	12/23/19 15:42	
Nitrobenzene-d5	50	10 - 95	12/23/19 15:42	
Phenol-d6	48	10 - 145	12/23/19 15:42	
Terphenyl-d14	86	10 - 106	12/23/19 15:42	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	3.45	15000	J

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 11:50
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB9 11-13	**Units:**	ug/Kg
Lab Code:	R1911947-007	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	360 U	360	87	1	12/23/19 16:11	12/12/19	
2,3,4,6-Tetrachlorophenol	360 U	360	77	1	12/23/19 16:11	12/12/19	
2,4,5-Trichlorophenol	360 U	360	310	1	12/23/19 16:11	12/12/19	
2,4,6-Trichlorophenol	360 U	360	65	1	12/23/19 16:11	12/12/19	
2,4-Dichlorophenol	360 U	360	78	1	12/23/19 16:11	12/12/19	
2,4-Dimethylphenol	360 U	360	80	1	12/23/19 16:11	12/12/19	
2,4-Dinitrophenol	1900 U	1900	140	1	12/23/19 16:11	12/12/19	
2,4-Dinitrotoluene	360 U	360	150	1	12/23/19 16:11	12/12/19	
2,6-Dinitrotoluene	360 U	360	110	1	12/23/19 16:11	12/12/19	
2-Chloronaphthalene	360 U	360	88	1	12/23/19 16:11	12/12/19	
2-Chlorophenol	360 U	360	90	1	12/23/19 16:11	12/12/19	
2-Methylnaphthalene	360 U	360	80	1	12/23/19 16:11	12/12/19	
2-Methylphenol	360 U	360	79	1	12/23/19 16:11	12/12/19	
2-Nitroaniline	1900 U	1900	110	1	12/23/19 16:11	12/12/19	
2-Nitrophenol	360 U	360	110	1	12/23/19 16:11	12/12/19	
3,3'-Dichlorobenzidine	360 U	360	77	1	12/23/19 16:11	12/12/19	
3- and 4-Methylphenol Coelution	360 U	360	70	1	12/23/19 16:11	12/12/19	
3-Nitroaniline	1900 U	1900	78	1	12/23/19 16:11	12/12/19	
4,6-Dinitro-2-methylphenol	1900 U	1900	160	1	12/23/19 16:11	12/12/19	
4-Bromophenyl Phenyl Ether	360 U	360	140	1	12/23/19 16:11	12/12/19	
4-Chloro-3-methylphenol	360 U	360	80	1	12/23/19 16:11	12/12/19	
4-Chloroaniline	360 U	360	87	1	12/23/19 16:11	12/12/19	
4-Chlorophenyl Phenyl Ether	360 U	360	88	1	12/23/19 16:11	12/12/19	
4-Nitroaniline	1900 U	1900	78	1	12/23/19 16:11	12/12/19	
4-Nitrophenol	1900 U	1900	130	1	12/23/19 16:11	12/12/19	
Acenaphthene	360 U	360	82	1	12/23/19 16:11	12/12/19	
Acenaphthylene	360 U	360	97	1	12/23/19 16:11	12/12/19	
Acetophenone	360 U	360	83	1	12/23/19 16:11	12/12/19	
Anthracene	360 U	360	110	1	12/23/19 16:11	12/12/19	
Atrazine	360 U	360	150	1	12/23/19 16:11	12/12/19	
Benz(a)anthracene	360 U	360	110	1	12/23/19 16:11	12/12/19	
Benzaldehyde	1900 U	1900	72	1	12/23/19 16:11	12/12/19	
Benzo(a)pyrene	360 U	360	140	1	12/23/19 16:11	12/12/19	
Benzo(b)fluoranthene	360 U	360	130	1	12/23/19 16:11	12/12/19	
Benzo(g,h,i)perylene	360 U	360	97	1	12/23/19 16:11	12/12/19	
Benzo(k)fluoranthene	360 U	360	140	1	12/23/19 16:11	12/12/19	
Biphenyl	360 U	360	90	1	12/23/19 16:11	12/12/19	
2,2'-Oxybis(1-chloropropane)	360 U	360	150	1	12/23/19 16:11	12/12/19	
Bis(2-chloroethoxy)methane	360 U	360	98	1	12/23/19 16:11	12/12/19	
Bis(2-chloroethyl) Ether	360 U	360	95	1	12/23/19 16:11	12/12/19	
Bis(2-ethylhexyl) Phthalate	550 U	550	98	1	12/23/19 16:11	12/12/19	
Butyl Benzyl Phthalate	360 U	360	91	1	12/23/19 16:11	12/12/19	
Caprolactam	360 U	360	95	1	12/23/19 16:11	12/12/19	

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 11:50
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB9 11-13	**Units:**	ug/Kg
Lab Code:	R1911947-007	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	360 U	360	110	1	12/23/19 16:11	12/12/19	
Chrysene	360 U	360	140	1	12/23/19 16:11	12/12/19	
Di-n-butyl Phthalate	360 U	360	120	1	12/23/19 16:11	12/12/19	
Di-n-octyl Phthalate	360 U	360	110	1	12/23/19 16:11	12/12/19	
Dibenz(a,h)anthracene	360 U	360	110	1	12/23/19 16:11	12/12/19	
Dibenzofuran	360 U	360	72	1	12/23/19 16:11	12/12/19	
Diethyl Phthalate	360 U	360	78	1	12/23/19 16:11	12/12/19	
Dimethyl Phthalate	360 U	360	82	1	12/23/19 16:11	12/12/19	
Fluoranthene	**230 J**	360	140	1	12/23/19 16:11	12/12/19	
Fluorene	360 U	360	84	1	12/23/19 16:11	12/12/19	
Hexachlorobenzene	360 U	360	120	1	12/23/19 16:11	12/12/19	
Hexachlorobutadiene	360 U	360	89	1	12/23/19 16:11	12/12/19	
Hexachlorocyclopentadiene	360 U	360	80	1	12/23/19 16:11	12/12/19	
Hexachloroethane	360 U	360	94	1	12/23/19 16:11	12/12/19	
Indeno(1,2,3-cd)pyrene	360 U	360	130	1	12/23/19 16:11	12/12/19	
Isophorone	360 U	360	100	1	12/23/19 16:11	12/12/19	
N-Nitrosodi-n-propylamine	360 U	360	98	1	12/23/19 16:11	12/12/19	
N-Nitrosodiphenylamine	360 U	360	250	1	12/23/19 16:11	12/12/19	
Naphthalene	360 U	360	94	1	12/23/19 16:11	12/12/19	
Nitrobenzene	360 U	360	94	1	12/23/19 16:11	12/12/19	
Pentachlorophenol (PCP)	1900 U	1900	130	1	12/23/19 16:11	12/12/19	
Phenanthrene	**130 J**	360	110	1	12/23/19 16:11	12/12/19	
Phenol	360 U	360	87	1	12/23/19 16:11	12/12/19	
Pyrene	**210 J**	360	150	1	12/23/19 16:11	12/12/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	8 *	10 - 109	12/23/19 16:11	*
2-Fluorobiphenyl	30	10 - 102	12/23/19 16:11	
2-Fluorophenol	6 *	10 - 88	12/23/19 16:11	*
Nitrobenzene-d5	24	10 - 95	12/23/19 16:11	
Phenol-d6	26	10 - 145	12/23/19 16:11	
Terphenyl-d14	67	10 - 106	12/23/19 16:11	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
000141-79-7	3-Penten-2-one, 4-methyl-	3.08	19000	JN
	unknown	3.62	150000	J
	unknown	4.06	1100	J
	unknown	4.15	180	J
	unknown	4.17	510	J
	unknown	4.25	1900	J

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 11:50
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB9 11-13	**Units:**	ug/Kg
Lab Code:	R1911947-007	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	4.40	800	J
	unknown	4.44	290	J
	unknown	5.17	220	J
	unknown	5.57	240	J

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 12:30
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB10 2-4	**Units:**	ug/Kg
Lab Code:	R1911947-008	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	360 U	360	86	1	12/23/19 16:39	12/12/19	
2,3,4,6-Tetrachlorophenol	360 U	360	76	1	12/23/19 16:39	12/12/19	
2,4,5-Trichlorophenol	360 U	360	310	1	12/23/19 16:39	12/12/19	
2,4,6-Trichlorophenol	360 U	360	64	1	12/23/19 16:39	12/12/19	
2,4-Dichlorophenol	360 U	360	77	1	12/23/19 16:39	12/12/19	
2,4-Dimethylphenol	360 U	360	79	1	12/23/19 16:39	12/12/19	
2,4-Dinitrophenol	1900 U	1900	140	1	12/23/19 16:39	12/12/19	
2,4-Dinitrotoluene	360 U	360	150	1	12/23/19 16:39	12/12/19	
2,6-Dinitrotoluene	360 U	360	110	1	12/23/19 16:39	12/12/19	
2-Chloronaphthalene	360 U	360	87	1	12/23/19 16:39	12/12/19	
2-Chlorophenol	360 U	360	89	1	12/23/19 16:39	12/12/19	
2-Methylnaphthalene	360 U	360	79	1	12/23/19 16:39	12/12/19	
2-Methylphenol	360 U	360	78	1	12/23/19 16:39	12/12/19	
2-Nitroaniline	1900 U	1900	110	1	12/23/19 16:39	12/12/19	
2-Nitrophenol	360 U	360	110	1	12/23/19 16:39	12/12/19	
3,3'-Dichlorobenzidine	360 U	360	76	1	12/23/19 16:39	12/12/19	
3- and 4-Methylphenol Coelution	360 U	360	69	1	12/23/19 16:39	12/12/19	
3-Nitroaniline	1900 U	1900	77	1	12/23/19 16:39	12/12/19	
4,6-Dinitro-2-methylphenol	1900 U	1900	160	1	12/23/19 16:39	12/12/19	
4-Bromophenyl Phenyl Ether	360 U	360	140	1	12/23/19 16:39	12/12/19	
4-Chloro-3-methylphenol	360 U	360	79	1	12/23/19 16:39	12/12/19	
4-Chloroaniline	360 U	360	86	1	12/23/19 16:39	12/12/19	
4-Chlorophenyl Phenyl Ether	360 U	360	87	1	12/23/19 16:39	12/12/19	
4-Nitroaniline	1900 U	1900	77	1	12/23/19 16:39	12/12/19	
4-Nitrophenol	1900 U	1900	130	1	12/23/19 16:39	12/12/19	
Acenaphthene	360 U	360	81	1	12/23/19 16:39	12/12/19	
Acenaphthylene	360 U	360	96	1	12/23/19 16:39	12/12/19	
Acetophenone	360 U	360	83	1	12/23/19 16:39	12/12/19	
Anthracene	360 U	360	110	1	12/23/19 16:39	12/12/19	
Atrazine	360 U	360	150	1	12/23/19 16:39	12/12/19	
Benz(a)anthracene	360 U	360	110	1	12/23/19 16:39	12/12/19	
Benzaldehyde	1900 U	1900	72	1	12/23/19 16:39	12/12/19	
Benzo(a)pyrene	360 U	360	140	1	12/23/19 16:39	12/12/19	
Benzo(b)fluoranthene	360 U	360	130	1	12/23/19 16:39	12/12/19	
Benzo(g,h,i)perylene	360 U	360	96	1	12/23/19 16:39	12/12/19	
Benzo(k)fluoranthene	360 U	360	140	1	12/23/19 16:39	12/12/19	
Biphenyl	360 U	360	89	1	12/23/19 16:39	12/12/19	
2,2'-Oxybis(1-chloropropane)	360 U	360	150	1	12/23/19 16:39	12/12/19	
Bis(2-chloroethoxy)methane	360 U	360	97	1	12/23/19 16:39	12/12/19	
Bis(2-chloroethyl) Ether	360 U	360	95	1	12/23/19 16:39	12/12/19	
Bis(2-ethylhexyl) Phthalate	550 U	550	97	1	12/23/19 16:39	12/12/19	
Butyl Benzyl Phthalate	360 U	360	90	1	12/23/19 16:39	12/12/19	
Caprolactam	360 U	360	95	1	12/23/19 16:39	12/12/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 12:30
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB10 2-4	**Units:**	ug/Kg
Lab Code:	R1911947-008	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	360 U	360	110	1	12/23/19 16:39	12/12/19	
Chrysene	360 U	360	140	1	12/23/19 16:39	12/12/19	
Di-n-butyl Phthalate	360 U	360	110	1	12/23/19 16:39	12/12/19	
Di-n-octyl Phthalate	360 U	360	110	1	12/23/19 16:39	12/12/19	
Dibenz(a,h)anthracene	360 U	360	110	1	12/23/19 16:39	12/12/19	
Dibenzofuran	360 U	360	72	1	12/23/19 16:39	12/12/19	
Diethyl Phthalate	360 U	360	77	1	12/23/19 16:39	12/12/19	
Dimethyl Phthalate	360 U	360	81	1	12/23/19 16:39	12/12/19	
Fluoranthene	360 U	360	140	1	12/23/19 16:39	12/12/19	
Fluorene	360 U	360	84	1	12/23/19 16:39	12/12/19	
Hexachlorobenzene	360 U	360	110	1	12/23/19 16:39	12/12/19	
Hexachlorobutadiene	360 U	360	88	1	12/23/19 16:39	12/12/19	
Hexachlorocyclopentadiene	360 U	360	79	1	12/23/19 16:39	12/12/19	
Hexachloroethane	360 U	360	94	1	12/23/19 16:39	12/12/19	
Indeno(1,2,3-cd)pyrene	360 U	360	130	1	12/23/19 16:39	12/12/19	
Isophorone	360 U	360	99	1	12/23/19 16:39	12/12/19	
N-Nitrosodi-n-propylamine	360 U	360	97	1	12/23/19 16:39	12/12/19	
N-Nitrosodiphenylamine	360 U	360	250	1	12/23/19 16:39	12/12/19	
Naphthalene	360 U	360	94	1	12/23/19 16:39	12/12/19	
Nitrobenzene	360 U	360	94	1	12/23/19 16:39	12/12/19	
Pentachlorophenol (PCP)	1900 U	1900	130	1	12/23/19 16:39	12/12/19	
Phenanthrene	360 U	360	110	1	12/23/19 16:39	12/12/19	
Phenol	360 U	360	86	1	12/23/19 16:39	12/12/19	
Pyrene	360 U	360	150	1	12/23/19 16:39	12/12/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	62	10 - 109	12/23/19 16:39	
2-Fluorobiphenyl	36	10 - 102	12/23/19 16:39	
2-Fluorophenol	28	10 - 88	12/23/19 16:39	
Nitrobenzene-d5	30	10 - 95	12/23/19 16:39	
Phenol-d6	29	10 - 145	12/23/19 16:39	
Terphenyl-d14	87	10 - 106	12/23/19 16:39	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	3.42	3000	J

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 12:30
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB10 12-14	**Units:**	ug/Kg
Lab Code:	R1911947-009	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	360 U	360	85	1	12/23/19 17:08	12/12/19	
2,3,4,6-Tetrachlorophenol	360 U	360	75	1	12/23/19 17:08	12/12/19	
2,4,5-Trichlorophenol	360 U	360	310	1	12/23/19 17:08	12/12/19	
2,4,6-Trichlorophenol	360 U	360	63	1	12/23/19 17:08	12/12/19	
2,4-Dichlorophenol	360 U	360	76	1	12/23/19 17:08	12/12/19	
2,4-Dimethylphenol	360 U	360	78	1	12/23/19 17:08	12/12/19	
2,4-Dinitrophenol	1800 U	1800	130	1	12/23/19 17:08	12/12/19	
2,4-Dinitrotoluene	360 U	360	150	1	12/23/19 17:08	12/12/19	
2,6-Dinitrotoluene	360 U	360	110	1	12/23/19 17:08	12/12/19	
2-Chloronaphthalene	360 U	360	86	1	12/23/19 17:08	12/12/19	
2-Chlorophenol	360 U	360	88	1	12/23/19 17:08	12/12/19	
2-Methylnaphthalene	360 U	360	78	1	12/23/19 17:08	12/12/19	
2-Methylphenol	360 U	360	77	1	12/23/19 17:08	12/12/19	
2-Nitroaniline	1800 U	1800	110	1	12/23/19 17:08	12/12/19	
2-Nitrophenol	360 U	360	110	1	12/23/19 17:08	12/12/19	
3,3'-Dichlorobenzidine	360 U	360	75	1	12/23/19 17:08	12/12/19	
3- and 4-Methylphenol Coelution	360 U	360	69	1	12/23/19 17:08	12/12/19	
3-Nitroaniline	1800 U	1800	76	1	12/23/19 17:08	12/12/19	
4,6-Dinitro-2-methylphenol	1800 U	1800	160	1	12/23/19 17:08	12/12/19	
4-Bromophenyl Phenyl Ether	360 U	360	130	1	12/23/19 17:08	12/12/19	
4-Chloro-3-methylphenol	360 U	360	78	1	12/23/19 17:08	12/12/19	
4-Chloroaniline	360 U	360	85	1	12/23/19 17:08	12/12/19	
4-Chlorophenyl Phenyl Ether	360 U	360	86	1	12/23/19 17:08	12/12/19	
4-Nitroaniline	1800 U	1800	76	1	12/23/19 17:08	12/12/19	
4-Nitrophenol	1800 U	1800	120	1	12/23/19 17:08	12/12/19	
Acenaphthene	360 U	360	80	1	12/23/19 17:08	12/12/19	
Acenaphthylene	360 U	360	94	1	12/23/19 17:08	12/12/19	
Acetophenone	360 U	360	81	1	12/23/19 17:08	12/12/19	
Anthracene	360 U	360	100	1	12/23/19 17:08	12/12/19	
Atrazine	360 U	360	150	1	12/23/19 17:08	12/12/19	
Benz(a)anthracene	360 U	360	110	1	12/23/19 17:08	12/12/19	
Benzaldehyde	1800 U	1800	71	1	12/23/19 17:08	12/12/19	
Benzo(a)pyrene	360 U	360	130	1	12/23/19 17:08	12/12/19	
Benzo(b)fluoranthene	360 U	360	120	1	12/23/19 17:08	12/12/19	
Benzo(g,h,i)perylene	360 U	360	94	1	12/23/19 17:08	12/12/19	
Benzo(k)fluoranthene	360 U	360	130	1	12/23/19 17:08	12/12/19	
Biphenyl	360 U	360	88	1	12/23/19 17:08	12/12/19	
2,2'-Oxybis(1-chloropropane)	360 U	360	150	1	12/23/19 17:08	12/12/19	
Bis(2-chloroethoxy)methane	360 U	360	96	1	12/23/19 17:08	12/12/19	
Bis(2-chloroethyl) Ether	360 U	360	93	1	12/23/19 17:08	12/12/19	
Bis(2-ethylhexyl) Phthalate	540 U	540	96	1	12/23/19 17:08	12/12/19	
Butyl Benzyl Phthalate	360 U	360	89	1	12/23/19 17:08	12/12/19	
Caprolactam	360 U	360	93	1	12/23/19 17:08	12/12/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 12:30
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB10 12-14	**Units:**	ug/Kg
Lab Code:	R1911947-009	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	360 U	360	110	1	12/23/19 17:08	12/12/19	
Chrysene	360 U	360	130	1	12/23/19 17:08	12/12/19	
Di-n-butyl Phthalate	360 U	360	110	1	12/23/19 17:08	12/12/19	
Di-n-octyl Phthalate	360 U	360	110	1	12/23/19 17:08	12/12/19	
Dibenz(a,h)anthracene	360 U	360	110	1	12/23/19 17:08	12/12/19	
Dibenzofuran	360 U	360	71	1	12/23/19 17:08	12/12/19	
Diethyl Phthalate	360 U	360	76	1	12/23/19 17:08	12/12/19	
Dimethyl Phthalate	360 U	360	80	1	12/23/19 17:08	12/12/19	
Fluoranthene	360 U	360	130	1	12/23/19 17:08	12/12/19	
Fluorene	360 U	360	83	1	12/23/19 17:08	12/12/19	
Hexachlorobenzene	360 U	360	110	1	12/23/19 17:08	12/12/19	
Hexachlorobutadiene	360 U	360	87	1	12/23/19 17:08	12/12/19	
Hexachlorocyclopentadiene	360 U	360	78	1	12/23/19 17:08	12/12/19	
Hexachloroethane	360 U	360	92	1	12/23/19 17:08	12/12/19	
Indeno(1,2,3-cd)pyrene	360 U	360	120	1	12/23/19 17:08	12/12/19	
Isophorone	360 U	360	98	1	12/23/19 17:08	12/12/19	
N-Nitrosodi-n-propylamine	360 U	360	96	1	12/23/19 17:08	12/12/19	
N-Nitrosodiphenylamine	360 U	360	240	1	12/23/19 17:08	12/12/19	
Naphthalene	360 U	360	92	1	12/23/19 17:08	12/12/19	
Nitrobenzene	360 U	360	92	1	12/23/19 17:08	12/12/19	
Pentachlorophenol (PCP)	1800 U	1800	120	1	12/23/19 17:08	12/12/19	
Phenanthrene	360 U	360	110	1	12/23/19 17:08	12/12/19	
Phenol	360 U	360	85	1	12/23/19 17:08	12/12/19	
Pyrene	360 U	360	150	1	12/23/19 17:08	12/12/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	62	10 - 109	12/23/19 17:08	
2-Fluorobiphenyl	49	10 - 102	12/23/19 17:08	
2-Fluorophenol	40	10 - 88	12/23/19 17:08	
Nitrobenzene-d5	43	10 - 95	12/23/19 17:08	
Phenol-d6	42	10 - 145	12/23/19 17:08	
Terphenyl-d14	80	10 - 106	12/23/19 17:08	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	3.47	20000	J

Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 09:15
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB8 1-2	**Units:**	ug/Kg
Lab Code:	R1911947-001	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	2.1 U	2.1	1.1	1	01/05/20 01:09	12/11/19	
4,4'-DDE	**1.5 J**	2.1	1.1	1	01/05/20 01:09	12/11/19	
4,4'-DDT	2.1 U	2.1	1.1	1	01/05/20 01:09	12/11/19	
Aldrin	2.1 U	2.1	1.1	1	01/05/20 01:09	12/11/19	
Dieldrin	2.1 U	2.1	1.1	1	01/05/20 01:09	12/11/19	
Endosulfan I	2.1 U	2.1	1.1	1	01/05/20 01:09	12/11/19	
Endosulfan II	2.1 U	2.1	1.1	1	01/05/20 01:09	12/11/19	
Endosulfan Sulfate	2.1 U	2.1	1.1	1	01/05/20 01:09	12/11/19	
Endrin	2.1 U	2.1	1.1	1	01/05/20 01:09	12/11/19	
Endrin Aldehyde	2.1 U	2.1	1.1	1	01/05/20 01:09	12/11/19	
Endrin Ketone	2.1 U	2.1	1.1	1	01/05/20 01:09	12/11/19	
Heptachlor	2.1 U	2.1	1.1	1	01/05/20 01:09	12/11/19	
Heptachlor Epoxide	2.1 U	2.1	1.1	1	01/05/20 01:09	12/11/19	
Methoxychlor	2.1 U	2.1	1.1	1	01/05/20 01:09	12/11/19	
Toxaphene	40 U	40	24	1	01/05/20 01:09	12/11/19	
alpha-BHC	2.1 U	2.1	1.1	1	01/05/20 01:09	12/11/19	
alpha-Chlordane	2.1 U	2.1	1.1	1	01/05/20 01:09	12/11/19	
beta-BHC	2.1 U	2.1	1.1	1	01/05/20 01:09	12/11/19	
delta-BHC	2.1 U	2.1	1.1	1	01/05/20 01:09	12/11/19	
gamma-BHC (Lindane)	2.1 U	2.1	1.1	1	01/05/20 01:09	12/11/19	
gamma-Chlordane	**1.3 J**	2.1	1.1	1	01/05/20 01:09	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	72	10 - 145	01/05/20 01:09	
Tetrachloro-m-xylene	60	10 - 123	01/05/20 01:09	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 09:40
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB8 6-8	**Units:**	ug/Kg
Lab Code:	R1911947-002	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	1.9 U	1.9	0.94	1	01/05/20 01:28	12/11/19	
4,4'-DDE	1.9 U	1.9	0.94	1	01/05/20 01:28	12/11/19	
4,4'-DDT	1.9 U	1.9	0.94	1	01/05/20 01:28	12/11/19	
Aldrin	1.9 U	1.9	0.94	1	01/05/20 01:28	12/11/19	
Dieldrin	1.9 U	1.9	0.94	1	01/05/20 01:28	12/11/19	
Endosulfan I	1.9 U	1.9	0.94	1	01/05/20 01:28	12/11/19	
Endosulfan II	1.9 U	1.9	0.94	1	01/05/20 01:28	12/11/19	
Endosulfan Sulfate	1.9 U	1.9	0.94	1	01/05/20 01:28	12/11/19	
Endrin	1.9 U	1.9	0.94	1	01/05/20 01:28	12/11/19	
Endrin Aldehyde	1.9 U	1.9	0.94	1	01/05/20 01:28	12/11/19	
Endrin Ketone	1.9 U	1.9	0.94	1	01/05/20 01:28	12/11/19	
Heptachlor	1.9 U	1.9	0.94	1	01/05/20 01:28	12/11/19	
Heptachlor Epoxide	1.9 U	1.9	0.94	1	01/05/20 01:28	12/11/19	
Methoxychlor	1.9 U	1.9	0.94	1	01/05/20 01:28	12/11/19	
Toxaphene	37 U	37	22	1	01/05/20 01:28	12/11/19	
alpha-BHC	1.9 U	1.9	0.94	1	01/05/20 01:28	12/11/19	
alpha-Chlordane	1.9 U	1.9	0.94	1	01/05/20 01:28	12/11/19	
beta-BHC	1.9 U	1.9	0.94	1	01/05/20 01:28	12/11/19	
delta-BHC	1.9 U	1.9	0.94	1	01/05/20 01:28	12/11/19	
gamma-BHC (Lindane)	1.9 U	1.9	0.94	1	01/05/20 01:28	12/11/19	
gamma-Chlordane	1.9 U	1.9	0.94	1	01/05/20 01:28	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	69	10 - 145	01/05/20 01:28	
Tetrachloro-m-xylene	35	10 - 123	01/05/20 01:28	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB11 1-2	**Units:**	ug/Kg
Lab Code:	R1911947-003	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	11	U	11	5.4	5	01/03/20 12:19	12/12/19	
4,4'-DDE	**7.4**	**J**	11	5.4	5	01/03/20 12:19	12/12/19	
4,4'-DDT	11	U	11	5.4	5	01/03/20 12:19	12/12/19	
Aldrin	11	U	11	5.4	5	01/03/20 12:19	12/12/19	
Dieldrin	11	U	11	5.4	5	01/03/20 12:19	12/12/19	
Endosulfan I	11	U	11	5.4	5	01/03/20 12:19	12/12/19	
Endosulfan II	11	U	11	5.4	5	01/03/20 12:19	12/12/19	
Endosulfan Sulfate	11	U	11	5.4	5	01/03/20 12:19	12/12/19	
Endrin	11	U	11	5.4	5	01/03/20 12:19	12/12/19	
Endrin Aldehyde	11	U	11	5.4	5	01/03/20 12:19	12/12/19	
Endrin Ketone	11	U	11	5.4	5	01/03/20 12:19	12/12/19	
Heptachlor	11	U	11	5.4	5	01/03/20 12:19	12/12/19	
Heptachlor Epoxide	11	U	11	5.4	5	01/03/20 12:19	12/12/19	
Methoxychlor	11	U	11	5.4	5	01/03/20 12:19	12/12/19	
Toxaphene	210	U	210	130	5	01/03/20 12:19	12/12/19	
alpha-BHC	11	U	11	5.4	5	01/03/20 12:19	12/12/19	
alpha-Chlordane	11	U	11	5.4	5	01/03/20 12:19	12/12/19	
beta-BHC	11	U	11	5.4	5	01/03/20 12:19	12/12/19	
delta-BHC	11	U	11	5.4	5	01/03/20 12:19	12/12/19	
gamma-BHC (Lindane)	11	U	11	5.4	5	01/03/20 12:19	12/12/19	
gamma-Chlordane	**5.9**	**J**	11	5.4	5	01/03/20 12:19	12/12/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	120	10 - 145	01/03/20 12:19	
Tetrachloro-m-xylene	106	10 - 123	01/03/20 12:19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB11 6-8	**Units:**	ug/Kg
Lab Code:	R1911947-004	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	9.5 U	9.5	4.7	5	01/03/20 12:38	12/12/19	
4,4'-DDE	9.5 U	9.5	4.7	5	01/03/20 12:38	12/12/19	
4,4'-DDT	9.5 U	9.5	4.7	5	01/03/20 12:38	12/12/19	
Aldrin	9.5 U	9.5	4.7	5	01/03/20 12:38	12/12/19	
Dieldrin	9.5 U	9.5	4.7	5	01/03/20 12:38	12/12/19	
Endosulfan I	9.5 U	9.5	4.7	5	01/03/20 12:38	12/12/19	
Endosulfan II	9.5 U	9.5	4.7	5	01/03/20 12:38	12/12/19	
Endosulfan Sulfate	9.5 U	9.5	4.7	5	01/03/20 12:38	12/12/19	
Endrin	9.5 U	9.5	4.7	5	01/03/20 12:38	12/12/19	
Endrin Aldehyde	9.5 U	9.5	4.7	5	01/03/20 12:38	12/12/19	
Endrin Ketone	9.5 U	9.5	4.7	5	01/03/20 12:38	12/12/19	
Heptachlor	9.5 U	9.5	4.7	5	01/03/20 12:38	12/12/19	
Heptachlor Epoxide	9.5 U	9.5	4.7	5	01/03/20 12:38	12/12/19	
Methoxychlor	9.5 U	9.5	4.7	5	01/03/20 12:38	12/12/19	
Toxaphene	180 U	180	110	5	01/03/20 12:38	12/12/19	
alpha-BHC	9.5 U	9.5	4.7	5	01/03/20 12:38	12/12/19	
alpha-Chlordane	9.5 U	9.5	4.7	5	01/03/20 12:38	12/12/19	
beta-BHC	9.5 U	9.5	4.7	5	01/03/20 12:38	12/12/19	
delta-BHC	9.5 U	9.5	4.7	5	01/03/20 12:38	12/12/19	
gamma-BHC (Lindane)	9.5 U	9.5	4.7	5	01/03/20 12:38	12/12/19	
gamma-Chlordane	9.5 U	9.5	4.7	5	01/03/20 12:38	12/12/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	108	10 - 145	01/03/20 12:38	
Tetrachloro-m-xylene	54	10 - 123	01/03/20 12:38	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB11 6-8 Dup	**Units:**	ug/Kg
Lab Code:	R1911947-005	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	1.9 U	1.9	0.96	1	01/03/20 13:36	12/12/19	
4,4'-DDE	1.9 U	1.9	0.96	1	01/03/20 13:36	12/12/19	
4,4'-DDT	1.9 U	1.9	0.96	1	01/03/20 13:36	12/12/19	
Aldrin	1.9 U	1.9	0.96	1	01/03/20 13:36	12/12/19	
Dieldrin	1.9 U	1.9	0.96	1	01/03/20 13:36	12/12/19	
Endosulfan I	1.9 U	1.9	0.96	1	01/03/20 13:36	12/12/19	
Endosulfan II	1.9 U	1.9	0.96	1	01/03/20 13:36	12/12/19	
Endosulfan Sulfate	1.9 U	1.9	0.96	1	01/03/20 13:36	12/12/19	
Endrin	1.9 U	1.9	0.96	1	01/03/20 13:36	12/12/19	
Endrin Aldehyde	1.9 U	1.9	0.96	1	01/03/20 13:36	12/12/19	
Endrin Ketone	1.9 U	1.9	0.96	1	01/03/20 13:36	12/12/19	
Heptachlor	1.9 U	1.9	0.96	1	01/03/20 13:36	12/12/19	
Heptachlor Epoxide	1.9 U	1.9	0.96	1	01/03/20 13:36	12/12/19	
Methoxychlor	1.9 U	1.9	0.96	1	01/03/20 13:36	12/12/19	
Toxaphene	37 U	37	22	1	01/03/20 13:36	12/12/19	
alpha-BHC	1.9 U	1.9	0.96	1	01/03/20 13:36	12/12/19	
alpha-Chlordane	1.9 U	1.9	0.96	1	01/03/20 13:36	12/12/19	
beta-BHC	1.9 U	1.9	0.96	1	01/03/20 13:36	12/12/19	
delta-BHC	1.9 U	1.9	0.96	1	01/03/20 13:36	12/12/19	
gamma-BHC (Lindane)	1.9 U	1.9	0.96	1	01/03/20 13:36	12/12/19	
gamma-Chlordane	1.9 U	1.9	0.96	1	01/03/20 13:36	12/12/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	100	10 - 145	01/03/20 13:36	
Tetrachloro-m-xylene	67	10 - 123	01/03/20 13:36	

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 11:40
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB9 2-4	**Units:**	ug/Kg
Lab Code:	R1911947-006	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	1.9 U	1.9	0.96	1	01/03/20 13:55	12/12/19	
4,4'-DDE	1.9 U	1.9	0.96	1	01/03/20 13:55	12/12/19	
4,4'-DDT	1.9 U	1.9	0.96	1	01/03/20 13:55	12/12/19	
Aldrin	1.9 U	1.9	0.96	1	01/03/20 13:55	12/12/19	
Dieldrin	1.9 U	1.9	0.96	1	01/03/20 13:55	12/12/19	
Endosulfan I	1.9 U	1.9	0.96	1	01/03/20 13:55	12/12/19	
Endosulfan II	1.9 U	1.9	0.96	1	01/03/20 13:55	12/12/19	
Endosulfan Sulfate	1.9 U	1.9	0.96	1	01/03/20 13:55	12/12/19	
Endrin	1.9 U	1.9	0.96	1	01/03/20 13:55	12/12/19	
Endrin Aldehyde	1.9 U	1.9	0.96	1	01/03/20 13:55	12/12/19	
Endrin Ketone	1.9 U	1.9	0.96	1	01/03/20 13:55	12/12/19	
Heptachlor	1.9 U	1.9	0.96	1	01/03/20 13:55	12/12/19	
Heptachlor Epoxide	1.9 U	1.9	0.96	1	01/03/20 13:55	12/12/19	
Methoxychlor	1.9 U	1.9	0.96	1	01/03/20 13:55	12/12/19	
Toxaphene	38 U	38	22	1	01/03/20 13:55	12/12/19	
alpha-BHC	1.9 U	1.9	0.96	1	01/03/20 13:55	12/12/19	
alpha-Chlordane	1.9 U	1.9	0.96	1	01/03/20 13:55	12/12/19	
beta-BHC	1.9 U	1.9	0.96	1	01/03/20 13:55	12/12/19	
delta-BHC	1.9 U	1.9	0.96	1	01/03/20 13:55	12/12/19	
gamma-BHC (Lindane)	1.9 U	1.9	0.96	1	01/03/20 13:55	12/12/19	
gamma-Chlordane	1.9 U	1.9	0.96	1	01/03/20 13:55	12/12/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	98	10 - 145	01/03/20 13:55	
Tetrachloro-m-xylene	59	10 - 123	01/03/20 13:55	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 11:50
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB9 11-13	**Units:**	ug/Kg
Lab Code:	R1911947-007	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	9.7 U	9.7	4.8	5	01/03/20 14:14	12/12/19	
4,4'-DDE	9.7 U	9.7	4.8	5	01/03/20 14:14	12/12/19	
4,4'-DDT	9.7 U	9.7	4.8	5	01/03/20 14:14	12/12/19	
Aldrin	9.7 U	9.7	4.8	5	01/03/20 14:14	12/12/19	
Dieldrin	9.7 U	9.7	4.8	5	01/03/20 14:14	12/12/19	
Endosulfan I	9.7 U	9.7	4.8	5	01/03/20 14:14	12/12/19	
Endosulfan II	9.7 U	9.7	4.8	5	01/03/20 14:14	12/12/19	
Endosulfan Sulfate	9.7 U	9.7	4.8	5	01/03/20 14:14	12/12/19	
Endrin	9.7 U	9.7	4.8	5	01/03/20 14:14	12/12/19	
Endrin Aldehyde	9.7 U	9.7	4.8	5	01/03/20 14:14	12/12/19	
Endrin Ketone	9.7 U	9.7	4.8	5	01/03/20 14:14	12/12/19	
Heptachlor	9.7 U	9.7	4.8	5	01/03/20 14:14	12/12/19	
Heptachlor Epoxide	9.7 U	9.7	4.8	5	01/03/20 14:14	12/12/19	
Methoxychlor	9.7 U	9.7	4.8	5	01/03/20 14:14	12/12/19	
Toxaphene	190 U	190	110	5	01/03/20 14:14	12/12/19	
alpha-BHC	9.7 U	9.7	4.8	5	01/03/20 14:14	12/12/19	
alpha-Chlordane	9.7 U	9.7	4.8	5	01/03/20 14:14	12/12/19	
beta-BHC	9.7 U	9.7	4.8	5	01/03/20 14:14	12/12/19	
delta-BHC	9.7 U	9.7	4.8	5	01/03/20 14:14	12/12/19	
gamma-BHC (Lindane)	9.7 U	9.7	4.8	5	01/03/20 14:14	12/12/19	
gamma-Chlordane	9.7 U	9.7	4.8	5	01/03/20 14:14	12/12/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	114	10 - 145	01/03/20 14:14	
Tetrachloro-m-xylene	106	10 - 123	01/03/20 14:14	

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 12:30
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB10 2-4	**Units:**	ug/Kg
Lab Code:	R1911947-008	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	1.9 U	1.9	0.95	1	01/03/20 14:33	12/12/19	
4,4'-DDE	1.9 U	1.9	0.95	1	01/03/20 14:33	12/12/19	
4,4'-DDT	1.9 U	1.9	0.95	1	01/03/20 14:33	12/12/19	
Aldrin	1.9 U	1.9	0.95	1	01/03/20 14:33	12/12/19	
Dieldrin	1.9 U	1.9	0.95	1	01/03/20 14:33	12/12/19	
Endosulfan I	1.9 U	1.9	0.95	1	01/03/20 14:33	12/12/19	
Endosulfan II	1.9 U	1.9	0.95	1	01/03/20 14:33	12/12/19	
Endosulfan Sulfate	1.9 U	1.9	0.95	1	01/03/20 14:33	12/12/19	
Endrin	1.9 U	1.9	0.95	1	01/03/20 14:33	12/12/19	
Endrin Aldehyde	1.9 U	1.9	0.95	1	01/03/20 14:33	12/12/19	
Endrin Ketone	1.9 U	1.9	0.95	1	01/03/20 14:33	12/12/19	
Heptachlor	1.9 U	1.9	0.95	1	01/03/20 14:33	12/12/19	
Heptachlor Epoxide	1.9 U	1.9	0.95	1	01/03/20 14:33	12/12/19	
Methoxychlor	1.9 U	1.9	0.95	1	01/03/20 14:33	12/12/19	
Toxaphene	37 U	37	22	1	01/03/20 14:33	12/12/19	
alpha-BHC	1.9 U	1.9	0.95	1	01/03/20 14:33	12/12/19	
alpha-Chlordane	1.9 U	1.9	0.95	1	01/03/20 14:33	12/12/19	
beta-BHC	1.9 U	1.9	0.95	1	01/03/20 14:33	12/12/19	
delta-BHC	1.9 U	1.9	0.95	1	01/03/20 14:33	12/12/19	
gamma-BHC (Lindane)	1.9 U	1.9	0.95	1	01/03/20 14:33	12/12/19	
gamma-Chlordane	1.9 U	1.9	0.95	1	01/03/20 14:33	12/12/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	84	10 - 145	01/03/20 14:33	
Tetrachloro-m-xylene	52	10 - 123	01/03/20 14:33	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 12:30
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB10 12-14	**Units:**	ug/Kg
Lab Code:	R1911947-009	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	1.9 U	1.9	0.93	1	01/03/20 14:52	12/12/19	
4,4'-DDE	1.9 U	1.9	0.93	1	01/03/20 14:52	12/12/19	
4,4'-DDT	1.9 U	1.9	0.93	1	01/03/20 14:52	12/12/19	
Aldrin	1.9 U	1.9	0.93	1	01/03/20 14:52	12/12/19	
Dieldrin	1.9 U	1.9	0.93	1	01/03/20 14:52	12/12/19	
Endosulfan I	1.9 U	1.9	0.93	1	01/03/20 14:52	12/12/19	
Endosulfan II	1.9 U	1.9	0.93	1	01/03/20 14:52	12/12/19	
Endosulfan Sulfate	1.9 U	1.9	0.93	1	01/03/20 14:52	12/12/19	
Endrin	1.9 U	1.9	0.93	1	01/03/20 14:52	12/12/19	
Endrin Aldehyde	1.9 U	1.9	0.93	1	01/03/20 14:52	12/12/19	
Endrin Ketone	1.9 U	1.9	0.93	1	01/03/20 14:52	12/12/19	
Heptachlor	1.9 U	1.9	0.93	1	01/03/20 14:52	12/12/19	
Heptachlor Epoxide	1.9 U	1.9	0.93	1	01/03/20 14:52	12/12/19	
Methoxychlor	1.9 U	1.9	0.93	1	01/03/20 14:52	12/12/19	
Toxaphene	36 U	36	21	1	01/03/20 14:52	12/12/19	
alpha-BHC	1.9 U	1.9	0.93	1	01/03/20 14:52	12/12/19	
alpha-Chlordane	1.9 U	1.9	0.93	1	01/03/20 14:52	12/12/19	
beta-BHC	1.9 U	1.9	0.93	1	01/03/20 14:52	12/12/19	
delta-BHC	1.9 U	1.9	0.93	1	01/03/20 14:52	12/12/19	
gamma-BHC (Lindane)	1.9 U	1.9	0.93	1	01/03/20 14:52	12/12/19	
gamma-Chlordane	1.9 U	1.9	0.93	1	01/03/20 14:52	12/12/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	90	10 - 145	01/03/20 14:52	
Tetrachloro-m-xylene	33	10 - 123	01/03/20 14:52	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 09:15
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB8 1-2	**Units:**	ug/Kg
Lab Code:	R1911947-001	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	40 U	40	21	1	12/12/19 22:43	12/11/19	
Aroclor 1221	82 U	82	41	1	12/12/19 22:43	12/11/19	
Aroclor 1232	40 U	40	24	1	12/12/19 22:43	12/11/19	
Aroclor 1242	40 U	40	21	1	12/12/19 22:43	12/11/19	
Aroclor 1248	40 U	40	32	1	12/12/19 22:43	12/11/19	
Aroclor 1254	**39 J**	40	23	1	12/12/19 22:43	12/11/19	
Aroclor 1260	40 U	40	21	1	12/12/19 22:43	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	65	22 - 128	12/12/19 22:43	
Tetrachloro-m-xylene	58	14 - 119	12/12/19 22:43	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 09:40
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB8 6-8	**Units:**	ug/Kg
Lab Code:	R1911947-002	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	37 U	37	19	1	12/12/19 23:03	12/11/19	
Aroclor 1221	75 U	75	37	1	12/12/19 23:03	12/11/19	
Aroclor 1232	37 U	37	22	1	12/12/19 23:03	12/11/19	
Aroclor 1242	37 U	37	19	1	12/12/19 23:03	12/11/19	
Aroclor 1248	37 U	37	29	1	12/12/19 23:03	12/11/19	
Aroclor 1254	37 U	37	21	1	12/12/19 23:03	12/11/19	
Aroclor 1260	37 U	37	19	1	12/12/19 23:03	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	56	22 - 128	12/12/19 23:03	
Tetrachloro-m-xylene	30	14 - 119	12/12/19 23:03	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB11 1-2	**Units:**	ug/Kg
Lab Code:	R1911947-003	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	42 U	42	22	1	12/18/19 16:41	12/12/19	
Aroclor 1221	85 U	85	42	1	12/18/19 16:41	12/12/19	
Aroclor 1232	42 U	42	25	1	12/18/19 16:41	12/12/19	
Aroclor 1242	42 U	42	22	1	12/18/19 16:41	12/12/19	
Aroclor 1248	**150**	42	33	1	12/18/19 16:41	12/12/19	
Aroclor 1254	**110**	42	23	1	12/18/19 16:41	12/12/19	
Aroclor 1260	**39 J**	42	22	1	12/18/19 16:41	12/12/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	99	22 - 128	12/18/19 16:41	
Tetrachloro-m-xylene	92	14 - 119	12/18/19 16:41	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB11 6-8	**Units:**	ug/Kg
Lab Code:	R1911947-004	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	37 U	37	19	1	12/16/19 12:49	12/12/19	
Aroclor 1221	75 U	75	37	1	12/16/19 12:49	12/12/19	
Aroclor 1232	37 U	37	22	1	12/16/19 12:49	12/12/19	
Aroclor 1242	37 U	37	19	1	12/16/19 12:49	12/12/19	
Aroclor 1248	37 U	37	29	1	12/16/19 12:49	12/12/19	
Aroclor 1254	37 U	37	21	1	12/16/19 12:49	12/12/19	
Aroclor 1260	37 U	37	19	1	12/16/19 12:49	12/12/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	90	22 - 128	12/16/19 12:49	
Tetrachloro-m-xylene	40	14 - 119	12/16/19 12:49	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB11 6-8 Dup	**Units:**	ug/Kg
Lab Code:	R1911947-005	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	37 U	37	20	1	12/16/19 13:50	12/12/19	
Aroclor 1221	76 U	76	38	1	12/16/19 13:50	12/12/19	
Aroclor 1232	37 U	37	22	1	12/16/19 13:50	12/12/19	
Aroclor 1242	37 U	37	20	1	12/16/19 13:50	12/12/19	
Aroclor 1248	37 U	37	29	1	12/16/19 13:50	12/12/19	
Aroclor 1254	37 U	37	21	1	12/16/19 13:50	12/12/19	
Aroclor 1260	37 U	37	20	1	12/16/19 13:50	12/12/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	91	22 - 128	12/16/19 13:50	
Tetrachloro-m-xylene	71	14 - 119	12/16/19 13:50	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 11:40
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB9 2-4	**Units:**	ug/Kg
Lab Code:	R1911947-006	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	38 U	38	20	1	12/16/19 14:10	12/12/19	
Aroclor 1221	76 U	76	38	1	12/16/19 14:10	12/12/19	
Aroclor 1232	38 U	38	22	1	12/16/19 14:10	12/12/19	
Aroclor 1242	38 U	38	20	1	12/16/19 14:10	12/12/19	
Aroclor 1248	38 U	38	30	1	12/16/19 14:10	12/12/19	
Aroclor 1254	38 U	38	21	1	12/16/19 14:10	12/12/19	
Aroclor 1260	38 U	38	20	1	12/16/19 14:10	12/12/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	83	22 - 128	12/16/19 14:10	
Tetrachloro-m-xylene	59	14 - 119	12/16/19 14:10	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 11:50
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB9 11-13	**Units:**	ug/Kg
Lab Code:	R1911947-007	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	38 U	38	20	1	12/16/19 14:31	12/12/19	
Aroclor 1221	76 U	76	38	1	12/16/19 14:31	12/12/19	
Aroclor 1232	38 U	38	22	1	12/16/19 14:31	12/12/19	
Aroclor 1242	38 U	38	20	1	12/16/19 14:31	12/12/19	
Aroclor 1248	38 U	38	30	1	12/16/19 14:31	12/12/19	
Aroclor 1254	38 U	38	21	1	12/16/19 14:31	12/12/19	
Aroclor 1260	38 U	38	20	1	12/16/19 14:31	12/12/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	76	22 - 128	12/16/19 14:31	
Tetrachloro-m-xylene	90	14 - 119	12/16/19 14:31	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 12:30
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB10 2-4	**Units:**	ug/Kg
Lab Code:	R1911947-008	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	37 U	37	20	1	12/16/19 15:12	12/12/19	
Aroclor 1221	75 U	75	37	1	12/16/19 15:12	12/12/19	
Aroclor 1232	37 U	37	22	1	12/16/19 15:12	12/12/19	
Aroclor 1242	37 U	37	20	1	12/16/19 15:12	12/12/19	
Aroclor 1248	37 U	37	29	1	12/16/19 15:12	12/12/19	
Aroclor 1254	37 U	37	21	1	12/16/19 15:12	12/12/19	
Aroclor 1260	37 U	37	20	1	12/16/19 15:12	12/12/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	72	22 - 128	12/16/19 15:12	
Tetrachloro-m-xylene	53	14 - 119	12/16/19 15:12	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 12:30
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB10 12-14	**Units:**	ug/Kg
Lab Code:	R1911947-009	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	36 U	36	19	1	12/16/19 15:32	12/12/19	
Aroclor 1221	74 U	74	37	1	12/16/19 15:32	12/12/19	
Aroclor 1232	36 U	36	21	1	12/16/19 15:32	12/12/19	
Aroclor 1242	36 U	36	19	1	12/16/19 15:32	12/12/19	
Aroclor 1248	36 U	36	29	1	12/16/19 15:32	12/12/19	
Aroclor 1254	36 U	36	20	1	12/16/19 15:32	12/12/19	
Aroclor 1260	36 U	36	19	1	12/16/19 15:32	12/12/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	79	22 - 128	12/16/19 15:32	
Tetrachloro-m-xylene	33	14 - 119	12/16/19 15:32	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 09:15
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB8 1-2	**Units:**	ug/Kg
Lab Code:	R1911947-001	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	12 U	12	4.4	1	12/18/19 04:33	12/16/19	
2,4,5-TP	12 U	12	4.1	1	12/18/19 04:33	12/16/19	
2,4-D	12 U	12	6.7	1	12/18/19 04:33	12/16/19	
Dicamba	12 U	12	4.4	1	12/18/19 04:33	12/16/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	49	10 - 151	12/18/19 04:33	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 09:40
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB8 6-8	**Units:**	ug/Kg
Lab Code:	R1911947-002	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	11 U	11	4.2	1	12/18/19 04:50	12/16/19	
2,4,5-TP	11 U	11	3.9	1	12/18/19 04:50	12/16/19	
2,4-D	11 U	11	6.4	1	12/18/19 04:50	12/16/19	
Dicamba	11 U	11	4.2	1	12/18/19 04:50	12/16/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	53	10 - 151	12/18/19 04:50	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB11 1-2	**Units:**	ug/Kg
Lab Code:	R1911947-003	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	13 U	13	4.6	1	12/18/19 05:07	12/16/19	
2,4,5-TP	13 U	13	4.3	1	12/18/19 05:07	12/16/19	
2,4-D	13 U	13	7.1	1	12/18/19 05:07	12/16/19	
Dicamba	13 U	13	4.6	1	12/18/19 05:07	12/16/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	79	10 - 151	12/18/19 05:07	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB11 6-8	**Units:**	ug/Kg
Lab Code:	R1911947-004	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	11 U	11	4.1	1	12/20/19 16:47	12/16/19	
2,4,5-TP	11 U	11	3.9	1	12/20/19 16:47	12/16/19	
2,4-D	11 U	11	6.4	1	12/20/19 16:47	12/16/19	
Dicamba	11 U	11	4.2	1	12/20/19 16:47	12/16/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	54	10 - 151	12/20/19 16:47	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB11 6-8 Dup	**Units:**	ug/Kg
Lab Code:	R1911947-005	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	11 U	11	4.1	1	12/20/19 17:38	12/16/19	
2,4,5-TP	11 U	11	3.9	1	12/20/19 17:38	12/16/19	
2,4-D	11 U	11	6.4	1	12/20/19 17:38	12/16/19	
Dicamba	11 U	11	4.2	1	12/20/19 17:38	12/16/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	62	10 - 151	12/20/19 17:38	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 11:40
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB9 2-4	**Units:**	ug/Kg
Lab Code:	R1911947-006	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	11 U	11	4.1	1	12/20/19 17:55	12/16/19	
2,4,5-TP	11 U	11	3.9	1	12/20/19 17:55	12/16/19	
2,4-D	11 U	11	6.4	1	12/20/19 17:55	12/16/19	
Dicamba	11 U	11	4.2	1	12/20/19 17:55	12/16/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	55	10 - 151	12/20/19 17:55	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 11:50
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB9 11-13	**Units:**	ug/Kg
Lab Code:	R1911947-007	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	11 U	11	4.1	1	12/20/19 18:12	12/16/19	
2,4,5-TP	11 U	11	3.9	1	12/20/19 18:12	12/16/19	
2,4-D	11 U	11	6.4	1	12/20/19 18:12	12/16/19	
Dicamba	11 U	11	4.2	1	12/20/19 18:12	12/16/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	61	10 - 151	12/20/19 18:12	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 12:30
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB10 2-4	**Units:**	ug/Kg
Lab Code:	R1911947-008	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	11 U	11	4.1	1	12/20/19 18:28	12/16/19	
2,4,5-TP	11 U	11	3.8	1	12/20/19 18:28	12/16/19	
2,4-D	11 U	11	6.3	1	12/20/19 18:28	12/16/19	
Dicamba	11 U	11	4.1	1	12/20/19 18:28	12/16/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	55	10 - 151	12/20/19 18:28	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 12:30
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB10 12-14	**Units:**	ug/Kg
Lab Code:	R1911947-009	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	11 U	11	4.1	1	12/20/19 19:02	12/16/19	
2,4,5-TP	11 U	11	3.8	1	12/20/19 19:02	12/16/19	
2,4-D	11 U	11	6.3	1	12/20/19 19:02	12/16/19	
Dicamba	11 U	11	4.1	1	12/20/19 19:02	12/16/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	56	10 - 151	12/20/19 19:02	

Metals

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

METALS
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INORGANIC ANALYSIS DATA PACKAGE

Client: Leader Professional Services, In
Service Request: SB8 1-2
Project No.: R1911947
Date Collected: 12/5/2019
Project Name:
Date Received: 12/5/2019
Matrix: SOIL
Units: mg/Kg
Basis:

Sample Name: SB8 1-2
Lab Code: R1911947-001

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	23.8	14.3	1.0	11800		
Antimony	6010C	7.1	0.642	1.0	7.1	U	N
Arsenic	6010C	1.2	0.832	1.0	2.9		
Barium	6010C	2.4	1.2	1.0	99.2		
Beryllium	6010C	0.357	0.034	1.0	0.559		
Cadmium	6010C	0.595	0.087	1.0	0.297	J	
Mercury	7471B	0.038	0.007	1.0	0.117		
Calcium	6010C	1190	380	10.0	71900		
Chromium	6010C	1.2	0.416	1.0	16.4		
Cobalt	6010C	6.0	0.226	1.0	8.3		
Copper	6010C	2.4	0.749	1.0	19.6		
Iron	6010C	238	155	10.0	21600		
Lead	6010C	6.0	0.476	1.0	11.7		
Magnesium	6010C	119	15.5	1.0	16700		
Manganese	6010C	2.4	1.8	1.0	606		E
Nickel	6010C	4.8	0.785	1.0	13.8		
Potassium	6010C	238	11.4	1.0	1890		
Selenium	6010C	1.2	0.642	1.0	1.2	U	
Silver	6010C	1.2	0.084	1.0	1.2	U	
Sodium	6010C	119	61.8	1.0	138		
Thallium	6010C	1.2	0.773	1.0	1.8		
Vanadium	6010C	6.0	0.844	1.0	24.6		
Zinc	6010C	2.4	1.7	1.0	71.2		

% Solids: 84.1

Comments:

METALS
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INORGANIC ANALYSIS DATA PACKAGE

Client: Leader Professional Services, In
Service Request: SB8 1-2
Project No.: R1911947
Date Collected: 12/5/2019
Project Name:
Date Received: 12/5/2019
Matrix: SOIL
Units: mg/Kg
Basis:

Sample Name: SB8 6-8
Lab Code: R1911947-002

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	22.7	13.6	1.0	9110		
Antimony	6010C	6.8	0.614	1.0	6.8	U	N
Arsenic	6010C	1.1	0.795	1.0	3.3		
Barium	6010C	2.3	1.1	1.0	132		
Beryllium	6010C	0.341	0.033	1.0	0.432		
Cadmium	6010C	0.568	0.083	1.0	0.261	J	
Mercury	7471B	0.038	0.007	1.0	0.010	J	
Calcium	6010C	1140	364	10.0	80600		
Chromium	6010C	1.1	0.398	1.0	13.4		
Cobalt	6010C	5.7	0.216	1.0	7.6		
Copper	6010C	2.3	0.716	1.0	20.7		
Iron	6010C	227	148	10.0	19500		
Lead	6010C	5.7	0.455	1.0	10.8		
Magnesium	6010C	114	14.8	1.0	28500		
Manganese	6010C	2.3	1.7	1.0	545		E
Nickel	6010C	4.6	0.750	1.0	12.2		
Potassium	6010C	227	10.9	1.0	2150		
Selenium	6010C	1.1	0.614	1.0	1.1	U	
Silver	6010C	1.1	0.081	1.0	1.1	U	
Sodium	6010C	114	59.1	1.0	185		
Thallium	6010C	1.1	0.739	1.0	2.2		
Vanadium	6010C	5.7	0.807	1.0	22.2		
Zinc	6010C	2.3	1.6	1.0	67.4		

% Solids: 88.0

Comments:

METALS
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INORGANIC ANALYSIS DATA PACKAGE

Client: Leader Professional Services, In
Service Request: SB8 1-2
Project No.: R1911947
Date Collected: 12/5/2019
Project Name:
Date Received: 12/5/2019
Matrix: SOIL
Units: mg/Kg
Basis:

Sample Name: SB11 1-2
Lab Code: R1911947-003

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	23.7	14.2	1.0	20200		
Antimony	6010C	7.1	0.641	1.0	7.1	U	N
Arsenic	6010C	1.2	0.831	1.0	3.5		
Barium	6010C	2.4	1.2	1.0	152		
Beryllium	6010C	0.356	0.034	1.0	0.866		
Cadmium	6010C	0.593	0.087	1.0	0.166	J	
Mercury	7471B	0.040	0.007	1.0	0.063		
Calcium	6010C	119	38.0	1.0	4360		
Chromium	6010C	1.2	0.415	1.0	24.8		
Cobalt	6010C	5.9	0.225	1.0	10.7		
Copper	6010C	2.4	0.748	1.0	22.5		
Iron	6010C	237	154	10.0	27900		
Lead	6010C	5.9	0.475	1.0	14.8		
Magnesium	6010C	119	15.4	1.0	7130		
Manganese	6010C	2.4	1.8	1.0	211		E
Nickel	6010C	4.8	0.783	1.0	21.3		
Potassium	6010C	237	11.4	1.0	1570		
Selenium	6010C	1.2	0.641	1.0	1.2	U	
Silver	6010C	1.2	0.084	1.0	1.2	U	
Sodium	6010C	119	61.7	1.0	181		
Thallium	6010C	1.2	0.771	1.0	1.2	U	
Vanadium	6010C	5.9	0.843	1.0	34.9		
Zinc	6010C	2.4	1.7	1.0	96.0		

% Solids: 79.5

Comments:

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Leader Professional Services, In
Service Request: SB8 1-2
Project No.: R1911947
Date Collected: 12/5/2019
Project Name:
Date Received: 12/5/2019
Matrix: SOIL
Units: mg/Kg
Basis:

Sample Name: SB11 6-8
Lab Code: R1911947-004

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	21.2	12.7	1.0	8130		
Antimony	6010C	6.4	0.574	1.0	6.4	U	N
Arsenic	6010C	1.1	0.744	1.0	2.5		
Barium	6010C	2.1	1.0	1.0	109		
Beryllium	6010C	0.319	0.031	1.0	0.382		
Cadmium	6010C	0.531	0.078	1.0	0.266	J	
Mercury	7471B	0.038	0.007	1.0	0.009	J	
Calcium	6010C	1060	340	10.0	102000		
Chromium	6010C	1.1	0.372	1.0	12.2		
Cobalt	6010C	5.3	0.202	1.0	6.9		
Copper	6010C	2.1	0.669	1.0	17.1		
Iron	6010C	212	138	10.0	16700		
Lead	6010C	5.3	0.425	1.0	8.8		
Magnesium	6010C	106	13.8	1.0	42800		
Manganese	6010C	2.1	1.6	1.0	672		E
Nickel	6010C	4.3	0.701	1.0	9.6		
Potassium	6010C	212	10.2	1.0	2030		
Selenium	6010C	1.1	0.574	1.0	1.1	U	
Silver	6010C	1.1	0.075	1.0	1.1	U	
Sodium	6010C	106	55.2	1.0	190		
Thallium	6010C	1.1	0.691	1.0	3.3		
Vanadium	6010C	5.3	0.754	1.0	18.1		
Zinc	6010C	2.1	1.5	1.0	59.7		

% Solids: 88.8

Comments:

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Leader Professional Services, In
Service Request: SB8 1-2
Project No.: R1911947
Date Collected: 12/5/2019
Project Name:
Date Received: 12/5/2019
Matrix: SOIL
Units: mg/Kg
Basis:

Sample Name: SB11 6-8 Dup
Lab Code: R1911947-005

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	21.5	12.9	1.0	9540		
Antimony	6010C	6.5	0.581	1.0	6.5	U	N
Arsenic	6010C	10.8	7.5	10.0	10.8	U	
Barium	6010C	2.2	1.0	1.0	59.0		
Beryllium	6010C	0.323	0.031	1.0	0.441		
Cadmium	6010C	0.538	0.079	1.0	0.290	J	
Mercury	7471B	0.035	0.006	1.0	0.008	J	
Calcium	6010C	1080	344	10.0	65600		
Chromium	6010C	1.1	0.376	1.0	14.1		
Cobalt	6010C	5.4	0.204	1.0	7.2		
Copper	6010C	2.2	0.678	1.0	19.4		
Iron	6010C	215	140	10.0	18800		
Lead	6010C	5.4	0.430	1.0	9.3		
Magnesium	6010C	108	14.0	1.0	21800		
Manganese	6010C	2.2	1.6	1.0	537		E
Nickel	6010C	4.3	0.710	1.0	11.6		
Potassium	6010C	215	10.3	1.0	2330		
Selenium	6010C	1.1	0.581	1.0	1.1	U	
Silver	6010C	1.1	0.076	1.0	1.1	U	
Sodium	6010C	108	55.9	1.0	183		
Thallium	6010C	1.1	0.699	1.0	2.0		
Vanadium	6010C	5.4	0.764	1.0	21.5		
Zinc	6010C	2.2	1.5	1.0	76.5		

% Solids: 89.4

Comments:

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Leader Professional Services, In
Service Request: SB8 1-2
Project No.: R1911947
Date Collected: 12/5/2019
Project Name:
Date Received: 12/5/2019
Matrix: SOIL
Units: mg/Kg
Basis:

Sample Name: SB9 2-4
Lab Code: R1911947-006

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	22.4	13.4	1.0	7890		
Antimony	6010C	6.7	0.604	1.0	6.7	U	N
Arsenic	6010C	1.1	0.783	1.0	3.3		
Barium	6010C	2.2	1.1	1.0	78.9		
Beryllium	6010C	0.335	0.032	1.0	0.380		
Cadmium	6010C	0.559	0.082	1.0	0.279	J	
Mercury	7471B	0.038	0.007	1.0	0.008	J	
Calcium	6010C	1120	358	10.0	68200		
Chromium	6010C	1.1	0.391	1.0	11.7		
Cobalt	6010C	5.6	0.212	1.0	6.3		
Copper	6010C	2.2	0.704	1.0	19.8		
Iron	6010C	224	145	10.0	17200		
Lead	6010C	5.6	0.447	1.0	9.0		
Magnesium	6010C	112	14.5	1.0	21000		
Manganese	6010C	2.2	1.7	1.0	529		E
Nickel	6010C	4.5	0.738	1.0	8.9		
Potassium	6010C	224	10.7	1.0	1800		
Selenium	6010C	1.1	0.604	1.0	1.1	U	
Silver	6010C	1.1	0.079	1.0	1.1	U	
Sodium	6010C	112	58.1	1.0	201		
Thallium	6010C	1.1	0.727	1.0	1.8		
Vanadium	6010C	5.6	0.794	1.0	20.1		
Zinc	6010C	2.2	1.6	1.0	77.1		

% Solids: 87.7

Comments:

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Leader Professional Services, In
Service Request: SB8 1-2
Project No.: R1911947
Date Collected: 12/5/2019
Project Name:
Date Received: 12/5/2019
Matrix: SOIL
Units: mg/Kg
Basis:

Sample Name: SB9 11-13
Lab Code: R1911947-007

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	22.2	13.3	1.0	8760		
Antimony	6010C	6.7	0.598	1.0	6.7	U	N
Arsenic	6010C	1.1	0.775	1.0	2.8		
Barium	6010C	2.2	1.1	1.0	83.1		
Beryllium	6010C	0.332	0.032	1.0	0.421		
Cadmium	6010C	0.554	0.081	1.0	0.233	J	
Mercury	7471B	0.038	0.007	1.0	0.007	J	
Calcium	6010C	1110	354	10.0	67600		
Chromium	6010C	1.1	0.388	1.0	13.0		
Cobalt	6010C	5.5	0.210	1.0	5.9		
Copper	6010C	2.2	0.698	1.0	15.4		
Iron	6010C	222	144	10.0	17800		
Lead	6010C	5.5	0.443	1.0	8.3		
Magnesium	6010C	111	14.4	1.0	19700		
Manganese	6010C	2.2	1.7	1.0	517		E
Nickel	6010C	4.4	0.731	1.0	10.3		
Potassium	6010C	222	10.6	1.0	2160		
Selenium	6010C	1.1	0.598	1.0	0.753	J	
Silver	6010C	1.1	0.079	1.0	1.1	U	
Sodium	6010C	111	57.6	1.0	163		
Thallium	6010C	1.1	0.720	1.0	1.7		
Vanadium	6010C	5.5	0.787	1.0	19.7		
Zinc	6010C	2.2	1.6	1.0	68.4		

% Solids: 88.5

Comments:

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Leader Professional Services, In
Service Request: SB8 1-2
Project No.: R1911947
Date Collected: 12/5/2019
Project Name:
Date Received: 12/5/2019
Matrix: SOIL
Units: mg/Kg
Basis:

Sample Name: SB10 2-4
Lab Code: R1911947-008

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	21.5	12.9	1.0	10100		
Antimony	6010C	6.5	0.581	1.0	6.5	U	N
Arsenic	6010C	1.1	0.754	1.0	3.6		
Barium	6010C	2.2	1.0	1.0	123		
Beryllium	6010C	0.323	0.031	1.0	0.474		
Cadmium	6010C	0.538	0.079	1.0	0.269	J	
Mercury	7471B	0.036	0.006	1.0	0.008	J	
Calcium	6010C	1080	345	10.0	62000		
Chromium	6010C	1.1	0.377	1.0	14.7		
Cobalt	6010C	5.4	0.205	1.0	8.9		
Copper	6010C	2.2	0.678	1.0	19.9		
Iron	6010C	215	140	10.0	20200		
Lead	6010C	5.4	0.431	1.0	9.3		
Magnesium	6010C	108	14.0	1.0	18100		
Manganese	6010C	2.2	1.6	1.0	585		E
Nickel	6010C	4.3	0.711	1.0	15.0		
Potassium	6010C	215	10.3	1.0	2210		
Selenium	6010C	1.1	0.581	1.0	1.1	U	
Silver	6010C	1.1	0.076	1.0	1.1	U	
Sodium	6010C	108	56.0	1.0	223		
Thallium	6010C	1.1	0.700	1.0	1.8		
Vanadium	6010C	5.4	0.764	1.0	22.5		
Zinc	6010C	2.2	1.5	1.0	67.3		

% Solids: 89.3

Comments:

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Leader Professional Services, In
Service Request: SB8 1-2
Project No.: R1911947
Date Collected: 12/5/2019
Project Name:
Date Received: 12/5/2019
Matrix: SOIL
Units: mg/Kg
Basis:

Sample Name: SB10 12-14
Lab Code: R1911947-009

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	21.7	13.0	1.0	8960		
Antimony	6010C	6.5	0.585	1.0	6.5	U	N
Arsenic	6010C	1.1	0.758	1.0	4.4		
Barium	6010C	2.2	1.1	1.0	138		
Beryllium	6010C	0.325	0.031	1.0	0.433		
Cadmium	6010C	0.542	0.079	1.0	0.238	J	
Mercury	7471B	0.035	0.006	1.0	0.007	J	
Calcium	6010C	1080	347	10.0	57600		
Chromium	6010C	1.1	0.379	1.0	13.3		
Cobalt	6010C	5.4	0.206	1.0	8.7		
Copper	6010C	2.2	0.682	1.0	17.0		
Iron	6010C	217	141	10.0	18800		
Lead	6010C	5.4	0.433	1.0	15.6		
Magnesium	6010C	108	14.1	1.0	16700		
Manganese	6010C	2.2	1.6	1.0	663		E
Nickel	6010C	4.3	0.715	1.0	12.9		
Potassium	6010C	217	10.4	1.0	2180		
Selenium	6010C	1.1	0.585	1.0	1.1	U	
Silver	6010C	1.1	0.077	1.0	1.1	U	
Sodium	6010C	108	56.3	1.0	162		
Thallium	6010C	1.1	0.704	1.0	1.7		
Vanadium	6010C	5.4	0.769	1.0	20.0		
Zinc	6010C	2.2	1.5	1.0	62.3		

% Solids: 90.5

Comments:

General Chemistry

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 09:15
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB8 1-2	**Basis:**	Dry
Lab Code:	R1911947-001		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	0.25 U	mg/Kg	0.25	0.05	1	12/13/19 17:56	12/12/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 09:15
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB8 1-2	**Basis:**	As Received
Lab Code:	R1911947-001		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Total Solids	ALS SOP	**84.1**	Percent	-	-	1	12/11/19 08:45	NA	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 09:40
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB8 6-8	**Basis:**	Dry
Lab Code:	R1911947-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	**0.25 BJ**	mg/Kg	0.27	0.05	1	12/13/19 17:57	12/12/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 09:40
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB8 6-8	**Basis:**	As Received
Lab Code:	R1911947-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Total Solids	ALS SOP	**88.0**	Percent	-	-	1	12/11/19 08:45	NA	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB11 1-2	**Basis:**	Dry
Lab Code:	R1911947-003		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	0.33 U	mg/Kg	0.33	0.05	1	12/13/19 17:58	12/12/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB11 1-2	**Basis:**	As Received
Lab Code:	R1911947-003		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Total Solids	ALS SOP	**79.5**	Percent	-	-	1	12/11/19 08:45	NA	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB11 6-8	**Basis:**	Dry
Lab Code:	R1911947-004		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	0.31 U	mg/Kg	0.31	0.05	1	12/13/19 19:37	12/12/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB11 6-8	**Basis:**	As Received
Lab Code:	R1911947-004		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Total Solids	ALS SOP	**88.8**	Percent	-	-	1	12/11/19 08:45	NA	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB11 6-8 Dup	**Basis:**	Dry
Lab Code:	R1911947-005		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	0.22 U	mg/Kg	0.22	0.05	1	12/13/19 18:31	12/12/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB11 6-8 Dup	**Basis:**	As Received
Lab Code:	R1911947-005		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Total Solids	ALS SOP	**89.4**	Percent	-	-	1	12/11/19 08:45	NA	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 11:40
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB9 2-4	**Basis:**	Dry
Lab Code:	R1911947-006		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	0.27 U	mg/Kg	0.27	0.05	1	12/13/19 18:32	12/12/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 11:40
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB9 2-4	**Basis:**	As Received
Lab Code:	R1911947-006		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Total Solids	ALS SOP	**87.7**	Percent	-	-	1	12/11/19 08:45	NA	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 11:50
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB9 11-13	**Basis:**	Dry
Lab Code:	R1911947-007		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	0.26 U	mg/Kg	0.26	0.05	1	12/13/19 18:33	12/12/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 11:50
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB9 11-13	**Basis:**	As Received
Lab Code:	R1911947-007		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Total Solids	ALS SOP	**88.5**	Percent	-	-	1	12/11/19 08:45	NA	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 12:30
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB10 2-4	**Basis:**	Dry
Lab Code:	R1911947-008		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	0.28 U	mg/Kg	0.28	0.05	1	12/13/19 18:34	12/12/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 12:30
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB10 2-4	**Basis:**	As Received
Lab Code:	R1911947-008		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Total Solids	ALS SOP	**89.3**	Percent	-	-	1	12/11/19 08:45	NA	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 12:30
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB10 12-14	**Basis:**	Dry
Lab Code:	R1911947-009		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	0.22 U	mg/Kg	0.22	0.05	1	12/13/19 18:34	12/12/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 12:30
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB10 12-14	**Basis:**	As Received
Lab Code:	R1911947-009		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Total Solids	ALS SOP	**90.5**	Percent	-	-	1	12/11/19 08:45	NA	

QC Summary Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
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Volatile Organic Compounds by GC/MS

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1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Leader Professional Services, Inc. **Service Request:** R1911947
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Sample Name	Lab Code	4-Bromofluorobenzene 31-154	Dibromofluoromethane 63-138	Toluene-d8 66-138
SB8 6-8 DL	R1911947-002	89	85	94
SB11 1-2 DL	R1911947-003	99	83	97
SB10 12-14 DL	R1911947-009	93	82	96
Method Blank	RQ1914665-04	90	88	96
Lab Control Sample	RQ1914665-03	97	94	97
SB8 1-2	R1911947-001	79	95	96
SB8 6-8	R1911947-002	94	92	98
SB11 1-2	R1911947-003	79	93	98
SB11 6-8	R1911947-004	92	93	99
SB11 6-8 Dup	R1911947-005	86	93	97
SB9 2-4	R1911947-006	95	92	95
SB9 11-13	R1911947-007	87	91	96
SB10 2-4	R1911947-008	91	92	96
SB10 12-14	R1911947-009	94	91	99
Method Blank	RQ1914502-04	98	93	96
Lab Control Sample	RQ1914502-03	97	95	95
SB11 6-8 MS	RQ1914502-05	101	97	99
SB11 6-8 DMS	RQ1914502-06	88	97	96

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19
		Date Analyzed:	12/12/19

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name:	SB11 6-8	**Units:**	ug/Kg
Lab Code:	R1911947-004	**Basis:**	Dry
Analysis Method:	8260C		

		Matrix Spike			Duplicate Matrix Spike					
		RQ1914502-05			RQ1914502-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,1,1-Trichloroethane (TCA)	4.7 U	50.8	47.3	107	54.2	50.7	107	44-124	<1	30
1,1,2,2-Tetrachloroethane	4.7 U	37.0	47.3	78	48.1	50.7	95	41-155	20	30
1,1,2-Trichloroethane	4.7 U	39.8	47.3	84	45.8	50.7	90	48-124	7	30
1,1,2-Trichloro-1,2,2-trifluoroethane	4.7 U	58.1	47.3	123 *	58.4	50.7	115	40-117	7	30
1,1-Dichloroethane (1,1-DCA)	4.7 U	47.7	47.3	101	52.5	50.7	104	41-138	3	30
1,1-Dichloroethene (1,1-DCE)	4.7 U	52.0	47.3	110	54.9	50.7	108	46-124	2	30
1,2,3-Trichlorobenzene	4.7 U	23.1	47.3	49	33.2	50.7	66	10-169	30	30
1,2,4-Trichlorobenzene	4.7 U	23.9	47.3	50	35.7	50.7	70	10-169	33*	30
1,2-Dibromo-3-chloropropane (DBCP)	4.7 U	38.5	47.3	81	47.1	50.7	93	30-136	14	30
1,2-Dibromoethane	4.7 U	36.4	47.3	77	46.3	50.7	91	38-129	17	30
1,2-Dichlorobenzene	4.7 U	29.9	47.3	63	43.0	50.7	85	11-152	30	30
1,2-Dichloroethane	4.7 U	37.9	47.3	80	44.4	50.7	88	49-119	10	30
1,2-Dichloropropane	4.7 U	44.0	47.3	93	51.2	50.7	101	60-126	8	30
1,3-Dichlorobenzene	4.7 U	30.3	47.3	64	44.0	50.7	87	13-151	30	30
1,4-Dichlorobenzene	4.7 U	29.0	47.3	61	42.6	50.7	84	10-151	32*	30
1,4-Dioxane	95 U	2990	946	316 *	1990	1010	196 *	49-188	47*	30
2-Butanone (MEK)	4.7 U	56.8	47.3	120	63.7	50.7	126	13-176	5	30
2-Hexanone	4.7 U	51.0	47.3	108	53.3	50.7	105	12-163	3	30
4-Methyl-2-pentanone	4.7 U	47.8	47.3	101	49.7	50.7	98	38-148	3	30
Acetone	6.7	81.9	47.3	159	467 E	50.7	908 *	11-183	140*	30
Benzene	4.7 U	48.6	47.3	103	53.9	50.7	106	51-123	3	30
Bromochloromethane	4.7 U	40.5	47.3	86	48.0	50.7	95	46-129	10	30
Bromodichloromethane	4.7 U	39.8	47.3	84	47.6	50.7	94	39-122	11	30
Bromoform	4.7 U	34.9	47.3	74	43.5	50.7	86	16-135	15	30
Bromomethane	4.7 U	24.8	47.3	52	23.6	50.7	47	10-150	10	30
Carbon Disulfide	4.7 U	43.9	47.3	93	48.1	50.7	95	44-139	2	30
Carbon Tetrachloride	4.7 U	50.8	47.3	107	55.8	50.7	110	46-137	3	30
Chlorobenzene	4.7 U	38.0	47.3	80	48.9	50.7	97	25-129	19	30
Chloroethane	4.7 U	47.2	47.3	100	32.0	50.7	63	10-166	45*	30
Chloroform	4.7 U	45.2	47.3	96	50.8	50.7	100	55-118	4	30
Chloromethane	4.7 U	50.0	47.3	106	48.0	50.7	95	10-139	11	30
Cyclohexane	4.7 U	57.3	47.3	121	59.3	50.7	117	28-126	3	30
Dibromochloromethane	4.7 U	36.7	47.3	78	46.5	50.7	92	36-125	16	30
Dichlorodifluoromethane (CFC 12)	4.7 U	42.7	47.3	90	41.2	50.7	81	51-144	11	30
Dichloromethane	4.7 U	42.4	47.3	90	47.4	50.7	93	49-125	3	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19
		Date Analyzed:	12/12/19

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name:	SB11 6-8	**Units:**	ug/Kg
Lab Code:	R1911947-004	**Basis:**	Dry
Analysis Method:	8260C		

		Matrix Spike RQ1914502-05			Duplicate Matrix Spike RQ1914502-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Ethylbenzene	4.7 U	43.5	47.3	92	53.6	50.7	106	23-132	14	30
Isopropylbenzene (Cumene)	4.7 U	43.7	47.3	92	53.6	50.7	106	18-133	14	30
Methyl Acetate	4.7 U	75.6	47.3	160	200	50.7	395 *	10-200	85*	30
Methyl tert-Butyl Ether	4.7 U	40.0	47.3	85	48.4	50.7	95	62-130	11	30
Methylcyclohexane	4.7 U	59.8	47.3	126	61.1	50.7	121	12-134	4	30
Styrene	4.7 U	36.7	47.3	78	48.1	50.7	95	15-160	20	30
Tetrachloroethene (PCE)	4.7 U	45.8	47.3	97	55.6	50.7	110	21-137	13	30
Toluene	0.22 J	45.9	47.3	97	52.7	50.7	103	11-152	6	30
Trichloroethene (TCE)	4.7 U	46.2	47.3	98	52.6	50.7	104	23-140	6	30
Trichlorofluoromethane (CFC 11)	4.7 U	53.6	47.3	113	52.9	50.7	104	47-129	8	30
Vinyl Chloride	4.7 U	48.0	47.3	102	47.9	50.7	95	59-153	7	30
cis-1,2-Dichloroethene	4.7 U	45.6	47.3	96	51.2	50.7	101	42-129	5	30
cis-1,3-Dichloropropene	4.7 U	38.6	47.3	82	47.0	50.7	93	14-139	13	30
m,p-Xylenes	9.5 U	83.5	94.6	88	105	101	103	20-135	16	30
o-Xylene	4.7 U	40.7	47.3	86	51.3	50.7	101	26-137	16	30
trans-1,2-Dichloroethene	4.7 U	48.6	47.3	103	52.5	50.7	104	34-128	<1	30
trans-1,3-Dichloropropene	4.7 U	35.1	47.3	74	44.3	50.7	87	17-155	16	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Leader Professional Services, Inc. **Service Request:** R1911947
Project: Tonawanda Bisonite Paint **Date Analyzed:** 12/12/19 12:50
Sample Matrix: Soil

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name: Method Blank **Instrument ID:**R-MS-14
Lab Code: RQ1914502-04 **File ID:**I:\ACQUDATA\MSVOA14\Data\121219\N2349.D\

Analysis Method: 8260C **Analysis Lot:**663067

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1914502-03	I:\ACQUDATA\MSVOA14\Data\121219 \N2347.D\	12/12/19 12:01
SB8 1-2	R1911947-001	I:\ACQUDATA\MSVOA14\Data\121219 \N2361.D\	12/12/19 17:33
SB8 6-8	R1911947-002	I:\ACQUDATA\MSVOA14\Data\121219 \N2362.D\	12/12/19 17:56
SB11 1-2	R1911947-003	I:\ACQUDATA\MSVOA14\Data\121219 \N2363.D\	12/12/19 18:19
SB11 6-8	R1911947-004	I:\ACQUDATA\MSVOA14\Data\121219 \N2364.D\	12/12/19 18:42
SB11 6-8 Dup	R1911947-005	I:\ACQUDATA\MSVOA14\Data\121219 \N2365.D\	12/12/19 19:05
SB9 2-4	R1911947-006	I:\ACQUDATA\MSVOA14\Data\121219 \N2366.D\	12/12/19 19:28
SB9 11-13	R1911947-007	I:\ACQUDATA\MSVOA14\Data\121219 \N2367.D\	12/12/19 19:51
SB10 2-4	R1911947-008	I:\ACQUDATA\MSVOA14\Data\121219 \N2368.D\	12/12/19 20:14
SB10 12-14	R1911947-009	I:\ACQUDATA\MSVOA14\Data\121219 \N2369.D\	12/12/19 20:37
SB11 6-8MS	RQ1914502-05	I:\ACQUDATA\MSVOA14\Data\121219 \N2370.D\	12/12/19 21:00
SB11 6-8DMS	RQ1914502-06	I:\ACQUDATA\MSVOA14\Data\121219 \N2371.D\	12/12/19 21:23

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Analyzed:**	12/16/19 14:07
Sample Matrix:	Soil	**Date Extracted:**	

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name: Method Blank **Instrument ID:** R-MS-14
Lab Code: RQ1914665-04 **File ID:** I:\ACQUDATA\MSVOA14\Data\121619\N2463.D\

Analysis Method: 8260C **Analysis Lot:** 663501
Prep Method: EPA 5035A

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1914665-03	I:\ACQUDATA\MSVOA14\Data\121619 \N2460.D\	12/16/19 12:52
SB8 6-8	R1911947-002	I:\ACQUDATA\MSVOA14\Data\121619 \N2464.D\	12/16/19 14:43
SB11 1-2	R1911947-003	I:\ACQUDATA\MSVOA14\Data\121619 \N2465.D\	12/16/19 15:05
SB10 12-14	R1911947-009	I:\ACQUDATA\MSVOA14\Data\121619 \N2466.D\	12/16/19 15:27

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914502-04	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.20	1	12/12/19 12:50	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.20	1	12/12/19 12:50	
1,1,2-Trichloroethane	5.0 U	5.0	0.20	1	12/12/19 12:50	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	0.20	1	12/12/19 12:50	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.20	1	12/12/19 12:50	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.29	1	12/12/19 12:50	
1,2,3-Trichlorobenzene	5.0 U	5.0	0.52	1	12/12/19 12:50	
1,2,4-Trichlorobenzene	5.0 U	5.0	0.42	1	12/12/19 12:50	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	0.29	1	12/12/19 12:50	
1,2-Dibromoethane	5.0 U	5.0	0.20	1	12/12/19 12:50	
1,2-Dichlorobenzene	5.0 U	5.0	0.20	1	12/12/19 12:50	
1,2-Dichloroethane	5.0 U	5.0	0.20	1	12/12/19 12:50	
1,2-Dichloropropane	5.0 U	5.0	0.20	1	12/12/19 12:50	
1,3-Dichlorobenzene	5.0 U	5.0	0.20	1	12/12/19 12:50	
1,4-Dichlorobenzene	5.0 U	5.0	0.22	1	12/12/19 12:50	
1,4-Dioxane	100 U	100	20	1	12/12/19 12:50	
2-Butanone (MEK)	5.0 U	5.0	2.0	1	12/12/19 12:50	
2-Hexanone	5.0 U	5.0	0.36	1	12/12/19 12:50	
4-Methyl-2-pentanone	5.0 U	5.0	0.23	1	12/12/19 12:50	
Acetone	5.0 U	5.0	4.7	1	12/12/19 12:50	
Benzene	5.0 U	5.0	0.20	1	12/12/19 12:50	
Bromochloromethane	5.0 U	5.0	0.20	1	12/12/19 12:50	
Bromodichloromethane	5.0 U	5.0	0.20	1	12/12/19 12:50	
Bromoform	5.0 U	5.0	0.50	1	12/12/19 12:50	
Bromomethane	5.0 U	5.0	2.1	1	12/12/19 12:50	
Carbon Disulfide	5.0 U	5.0	0.29	1	12/12/19 12:50	
Carbon Tetrachloride	5.0 U	5.0	0.26	1	12/12/19 12:50	
Chlorobenzene	5.0 U	5.0	0.20	1	12/12/19 12:50	
Chloroethane	5.0 U	5.0	0.20	1	12/12/19 12:50	
Chloroform	5.0 U	5.0	0.20	1	12/12/19 12:50	
Chloromethane	5.0 U	5.0	1.4	1	12/12/19 12:50	
Cyclohexane	5.0 U	5.0	0.26	1	12/12/19 12:50	
Dibromochloromethane	5.0 U	5.0	0.20	1	12/12/19 12:50	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	0.33	1	12/12/19 12:50	
Dichloromethane	5.0 U	5.0	2.8	1	12/12/19 12:50	
Ethylbenzene	5.0 U	5.0	0.20	1	12/12/19 12:50	
Isopropylbenzene (Cumene)	5.0 U	5.0	0.20	1	12/12/19 12:50	
Methyl Acetate	5.0 U	5.0	0.84	1	12/12/19 12:50	
Methyl tert-Butyl Ether	5.0 U	5.0	0.20	1	12/12/19 12:50	
Methylcyclohexane	5.0 U	5.0	0.31	1	12/12/19 12:50	
Styrene	5.0 U	5.0	0.20	1	12/12/19 12:50	
Tetrachloroethene (PCE)	5.0 U	5.0	0.23	1	12/12/19 12:50	
Toluene	5.0 U	5.0	0.20	1	12/12/19 12:50	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914502-04	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	0.22	1	12/12/19 12:50	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	0.26	1	12/12/19 12:50	
Vinyl Chloride	5.0 U	5.0	0.46	1	12/12/19 12:50	
cis-1,2-Dichloroethene	5.0 U	5.0	0.20	1	12/12/19 12:50	
cis-1,3-Dichloropropene	5.0 U	5.0	0.20	1	12/12/19 12:50	
m,p-Xylenes	10 U	10	0.37	1	12/12/19 12:50	
o-Xylene	5.0 U	5.0	0.20	1	12/12/19 12:50	
trans-1,2-Dichloroethene	5.0 U	5.0	0.20	1	12/12/19 12:50	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	12/12/19 12:50	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	31 - 154	12/12/19 12:50	
Dibromofluoromethane	93	63 - 138	12/12/19 12:50	
Toluene-d8	96	66 - 138	12/12/19 12:50	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914665-04	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	250 U	250	10	50	12/16/19 14:07	
1,1,2,2-Tetrachloroethane	250 U	250	10	50	12/16/19 14:07	
1,1,2-Trichloroethane	250 U	250	10	50	12/16/19 14:07	
1,1,2-Trichloro-1,2,2-trifluoroethane	250 U	250	10	50	12/16/19 14:07	
1,1-Dichloroethane (1,1-DCA)	250 U	250	10	50	12/16/19 14:07	
1,1-Dichloroethene (1,1-DCE)	250 U	250	15	50	12/16/19 14:07	
1,2,3-Trichlorobenzene	250 U	250	26	50	12/16/19 14:07	
1,2,4-Trichlorobenzene	250 U	250	21	50	12/16/19 14:07	
1,2-Dibromo-3-chloropropane (DBCP)	250 U	250	15	50	12/16/19 14:07	
1,2-Dibromoethane	250 U	250	10	50	12/16/19 14:07	
1,2-Dichlorobenzene	250 U	250	10	50	12/16/19 14:07	
1,2-Dichloroethane	250 U	250	10	50	12/16/19 14:07	
1,2-Dichloropropane	250 U	250	10	50	12/16/19 14:07	
1,3-Dichlorobenzene	250 U	250	10	50	12/16/19 14:07	
1,4-Dichlorobenzene	250 U	250	11	50	12/16/19 14:07	
1,4-Dioxane	5000 U	5000	1000	50	12/16/19 14:07	
2-Butanone (MEK)	250 U	250	100	50	12/16/19 14:07	
2-Hexanone	250 U	250	18	50	12/16/19 14:07	
4-Methyl-2-pentanone	250 U	250	12	50	12/16/19 14:07	
Acetone	250 U	250	240	50	12/16/19 14:07	
Benzene	250 U	250	10	50	12/16/19 14:07	
Bromochloromethane	250 U	250	10	50	12/16/19 14:07	
Bromodichloromethane	250 U	250	10	50	12/16/19 14:07	
Bromoform	250 U	250	25	50	12/16/19 14:07	
Bromomethane	250 U	250	110	50	12/16/19 14:07	
Carbon Disulfide	250 U	250	15	50	12/16/19 14:07	
Carbon Tetrachloride	250 U	250	13	50	12/16/19 14:07	
Chlorobenzene	250 U	250	10	50	12/16/19 14:07	
Chloroethane	250 U	250	10	50	12/16/19 14:07	
Chloroform	250 U	250	10	50	12/16/19 14:07	
Chloromethane	250 U	250	70	50	12/16/19 14:07	
Cyclohexane	250 U	250	13	50	12/16/19 14:07	
Dibromochloromethane	250 U	250	10	50	12/16/19 14:07	
Dichlorodifluoromethane (CFC 12)	250 U	250	17	50	12/16/19 14:07	
Dichloromethane	250 U	250	140	50	12/16/19 14:07	
Ethylbenzene	250 U	250	10	50	12/16/19 14:07	
Isopropylbenzene (Cumene)	250 U	250	10	50	12/16/19 14:07	
Methyl Acetate	250 U	250	42	50	12/16/19 14:07	
Methyl tert-Butyl Ether	250 U	250	10	50	12/16/19 14:07	
Methylcyclohexane	250 U	250	16	50	12/16/19 14:07	
Styrene	250 U	250	10	50	12/16/19 14:07	
Tetrachloroethene (PCE)	250 U	250	12	50	12/16/19 14:07	
Toluene	250 U	250	10	50	12/16/19 14:07	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914665-04	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	250 U	250	11	50	12/16/19 14:07	
Trichlorofluoromethane (CFC 11)	250 U	250	13	50	12/16/19 14:07	
Vinyl Chloride	250 U	250	23	50	12/16/19 14:07	
cis-1,2-Dichloroethene	250 U	250	10	50	12/16/19 14:07	
cis-1,3-Dichloropropene	250 U	250	10	50	12/16/19 14:07	
m,p-Xylenes	500 U	500	19	50	12/16/19 14:07	
o-Xylene	250 U	250	10	50	12/16/19 14:07	
trans-1,2-Dichloroethene	250 U	250	10	50	12/16/19 14:07	
trans-1,3-Dichloropropene	250 U	250	10	50	12/16/19 14:07	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	31 - 154	12/16/19 14:07	
Dibromofluoromethane	88	63 - 138	12/16/19 14:07	
Toluene-d8	96	66 - 138	12/16/19 14:07	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

Client: Leader Professional Services, Inc. **Service Request:** R1911947
Project: Tonawanda Bisonite Paint **Date Analyzed:** 12/12/19 12:01
Sample Matrix: Soil

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample **Instrument ID:**R-MS-14
Lab Code: RQ1914502-03 **File ID:**I:\ACQUDATA\MSVOA14\Data\121219\N2347.D\

Analysis Method: 8260C **Analysis Lot:**663067

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ1914502-04	I:\ACQUDATA\MSVOA14\Data\121219 \N2349.D\	12/12/19 12:50
SB8 1-2	R1911947-001	I:\ACQUDATA\MSVOA14\Data\121219 \N2361.D\	12/12/19 17:33
SB8 6-8	R1911947-002	I:\ACQUDATA\MSVOA14\Data\121219 \N2362.D\	12/12/19 17:56
SB11 1-2	R1911947-003	I:\ACQUDATA\MSVOA14\Data\121219 \N2363.D\	12/12/19 18:19
SB11 6-8	R1911947-004	I:\ACQUDATA\MSVOA14\Data\121219 \N2364.D\	12/12/19 18:42
SB11 6-8 Dup	R1911947-005	I:\ACQUDATA\MSVOA14\Data\121219 \N2365.D\	12/12/19 19:05
SB9 2-4	R1911947-006	I:\ACQUDATA\MSVOA14\Data\121219 \N2366.D\	12/12/19 19:28
SB9 11-13	R1911947-007	I:\ACQUDATA\MSVOA14\Data\121219 \N2367.D\	12/12/19 19:51
SB10 2-4	R1911947-008	I:\ACQUDATA\MSVOA14\Data\121219 \N2368.D\	12/12/19 20:14
SB10 12-14	R1911947-009	I:\ACQUDATA\MSVOA14\Data\121219 \N2369.D\	12/12/19 20:37
SB11 6-8MS	RQ1914502-05	I:\ACQUDATA\MSVOA14\Data\121219 \N2370.D\	12/12/19 21:00
SB11 6-8DMS	RQ1914502-06	I:\ACQUDATA\MSVOA14\Data\121219 \N2371.D\	12/12/19 21:23

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Analyzed:**	12/16/19 12:52
Sample Matrix:	Soil	**Date Extracted:**	

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Lab Control Sample	**Instrument ID:**	R-MS-14
Lab Code:	RQ1914665-03	**File ID:**	I:\ACQUDATA\MSVOA14\Data\121619\N2460.D\
Analysis Method:	8260C	**Analysis Lot:**	663501
Prep Method:	EPA 5035A		

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ1914665-04	I:\ACQUDATA\MSVOA14\Data\121619 \N2463.D\	12/16/19 14:07
SB8 6-8	R1911947-002	I:\ACQUDATA\MSVOA14\Data\121619 \N2464.D\	12/16/19 14:43
SB11 1-2	R1911947-003	I:\ACQUDATA\MSVOA14\Data\121619 \N2465.D\	12/16/19 15:05
SB10 12-14	R1911947-009	I:\ACQUDATA\MSVOA14\Data\121619 \N2466.D\	12/16/19 15:27

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

Service Request: R1911947
Date Analyzed: 12/12/19

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/Kg
Basis: Dry

Lab Control Sample
RQ1914502-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	18.2	20.0	91	68-123
1,1,2,2-Tetrachloroethane	8260C	19.2	20.0	96	78-121
1,1,2-Trichloroethane	8260C	19.9	20.0	100	84-117
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	18.4	20.0	92	54-121
1,1-Dichloroethane (1,1-DCA)	8260C	19.0	20.0	95	76-123
1,1-Dichloroethene (1,1-DCE)	8260C	17.7	20.0	88	65-115
1,2,3-Trichlorobenzene	8260C	20.1	20.0	101	60-128
1,2,4-Trichlorobenzene	8260C	20.7	20.0	104	62-130
1,2-Dibromo-3-chloropropane (DBCP)	8260C	19.8	20.0	99	54-135
1,2-Dibromoethane	8260C	19.7	20.0	99	77-117
1,2-Dichlorobenzene	8260C	19.8	20.0	99	75-116
1,2-Dichloroethane	8260C	18.8	20.0	94	74-116
1,2-Dichloropropane	8260C	20.0	20.0	100	79-112
1,3-Dichlorobenzene	8260C	19.5	20.0	97	72-118
1,4-Dichlorobenzene	8260C	19.2	20.0	96	72-117
1,4-Dioxane	8260C	384	400	96	59-147
2-Butanone (MEK)	8260C	17.5	20.0	88	67-129
2-Hexanone	8260C	19.2	20.0	96	68-118
4-Methyl-2-pentanone	8260C	19.3	20.0	96	64-123
Acetone	8260C	18.1	20.0	90	32-154
Benzene	8260C	19.9	20.0	99	77-114
Bromochloromethane	8260C	19.4	20.0	97	78-117
Bromodichloromethane	8260C	19.7	20.0	98	72-118
Bromoform	8260C	19.8	20.0	99	55-134
Bromomethane	8260C	13.2	20.0	66	10-150
Carbon Disulfide	8260C	12.8	20.0	64	44-139
Carbon Tetrachloride	8260C	18.4	20.0	92	51-123
Chlorobenzene	8260C	19.3	20.0	96	79-115
Chloroethane	8260C	17.9	20.0	89	10-140
Chloroform	8260C	19.3	20.0	97	76-115
Chloromethane	8260C	21.7	20.0	108	10-131
Cyclohexane	8260C	18.7	20.0	93	67-122
Dibromochloromethane	8260C	20.2	20.0	101	68-121

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

Service Request: R1911947
Date Analyzed: 12/12/19

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/Kg
Basis: Dry

Lab Control Sample
RQ1914502-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	8260C	18.7	20.0	94	51-144
Dichloromethane	8260C	17.2	20.0	86	72-118
Ethylbenzene	8260C	19.1	20.0	96	64-118
Isopropylbenzene (Cumene)	8260C	19.4	20.0	97	60-123
Methyl Acetate	8260C	18.1	20.0	90	31-122
Methyl tert-Butyl Ether	8260C	19.7	20.0	99	76-118
Methylcyclohexane	8260C	20.1	20.0	100	70-124
Styrene	8260C	19.4	20.0	97	74-117
Tetrachloroethene (PCE)	8260C	18.1	20.0	91	58-124
Toluene	8260C	19.8	20.0	99	72-116
Trichloroethene (TCE)	8260C	18.2	20.0	91	69-118
Trichlorofluoromethane (CFC 11)	8260C	17.9	20.0	90	52-127
Vinyl Chloride	8260C	18.3	20.0	92	59-153
cis-1,2-Dichloroethene	8260C	19.5	20.0	98	79-113
cis-1,3-Dichloropropene	8260C	19.9	20.0	99	66-117
m,p-Xylenes	8260C	39.0	40.0	97	68-118
o-Xylene	8260C	19.8	20.0	99	71-116
trans-1,2-Dichloroethene	8260C	18.3	20.0	92	73-114
trans-1,3-Dichloropropene	8260C	20.0	20.0	100	57-135

Client: Leader Professional Services, Inc. **Service Request:** R1911947
Project: Tonawanda Bisonite Paint **Date Analyzed:** 12/16/19
Sample Matrix: Soil

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/Kg
Basis: Dry

Lab Control Sample
RQ1914665-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	17.7	20.0	89	68-123
1,1,2,2-Tetrachloroethane	8260C	20.7	20.0	103	78-121
1,1,2-Trichloroethane	8260C	20.5	20.0	102	84-117
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	18.6	20.0	93	54-121
1,1-Dichloroethane (1,1-DCA)	8260C	19.6	20.0	98	76-123
1,1-Dichloroethene (1,1-DCE)	8260C	19.0	20.0	95	65-115
1,2,3-Trichlorobenzene	8260C	22.0	20.0	110	60-128
1,2,4-Trichlorobenzene	8260C	22.7	20.0	114	62-130
1,2-Dibromo-3-chloropropane (DBCP)	8260C	19.2	20.0	96	54-135
1,2-Dibromoethane	8260C	20.1	20.0	100	77-117
1,2-Dichlorobenzene	8260C	21.1	20.0	106	75-116
1,2-Dichloroethane	8260C	18.1	20.0	91	74-116
1,2-Dichloropropane	8260C	21.1	20.0	105	79-112
1,3-Dichlorobenzene	8260C	20.5	20.0	102	72-118
1,4-Dichlorobenzene	8260C	19.8	20.0	99	72-117
1,4-Dioxane	8260C	399	400	100	59-147
2-Butanone (MEK)	8260C	18.3	20.0	91	67-129
2-Hexanone	8260C	17.8	20.0	89	68-118
4-Methyl-2-pentanone	8260C	17.8	20.0	89	64-123
Acetone	8260C	17.2	20.0	86	32-154
Benzene	8260C	20.5	20.0	102	77-114
Bromochloromethane	8260C	20.1	20.0	100	78-117
Bromodichloromethane	8260C	17.9	20.0	90	72-118
Bromoform	8260C	19.5	20.0	97	55-134
Bromomethane	8260C	9.12	20.0	46	10-150
Carbon Disulfide	8260C	17.2	20.0	86	44-139
Carbon Tetrachloride	8260C	16.9	20.0	84	51-123
Chlorobenzene	8260C	19.8	20.0	99	79-115
Chloroethane	8260C	11.4	20.0	57	10-140
Chloroform	8260C	18.9	20.0	94	76-115
Chloromethane	8260C	21.9	20.0	109	10-131
Cyclohexane	8260C	19.6	20.0	98	67-122
Dibromochloromethane	8260C	18.8	20.0	94	68-121

Client: Leader Professional Services, Inc. **Service Request:** R1911947
Project: Tonawanda Bisonite Paint **Date Analyzed:** 12/16/19
Sample Matrix: Soil

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/Kg
Basis: Dry

Lab Control Sample
RQ1914665-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	8260C	20.6	20.0	103	51-144
Dichloromethane	8260C	19.6	20.0	98	72-118
Ethylbenzene	8260C	19.5	20.0	97	64-118
Isopropylbenzene (Cumene)	8260C	19.1	20.0	96	60-123
Methyl Acetate	8260C	18.7	20.0	93	31-122
Methyl tert-Butyl Ether	8260C	20.0	20.0	100	76-118
Methylcyclohexane	8260C	21.7	20.0	108	70-124
Styrene	8260C	20.3	20.0	101	74-117
Tetrachloroethene (PCE)	8260C	19.3	20.0	97	58-124
Toluene	8260C	19.8	20.0	99	72-116
Trichloroethene (TCE)	8260C	18.6	20.0	93	69-118
Trichlorofluoromethane (CFC 11)	8260C	17.3	20.0	87	52-127
Vinyl Chloride	8260C	19.9	20.0	99	59-153
cis-1,2-Dichloroethene	8260C	20.5	20.0	103	79-113
cis-1,3-Dichloropropene	8260C	19.5	20.0	98	66-117
m,p-Xylenes	8260C	39.8	40.0	99	68-118
o-Xylene	8260C	20.3	20.0	102	71-116
trans-1,2-Dichloroethene	8260C	19.7	20.0	98	73-114
trans-1,3-Dichloropropene	8260C	19.4	20.0	97	57-135

Client: Leader Professional Services, Inc. **Service Request:**R1911947
Project: Tonawanda Bisonite Paint **Date Analyzed:**12/12/19 10:47

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA14\Data\121219\N2345.D\ **Analytical Method:** 8260C
Instrument ID: R-MS-14 **Analysis Lot:** 663067

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	20.82	41099	Pass
75	95	30	60	50.22	99136	Pass
95	95	100	100	100.00	197419	Pass
96	95	5	9	7.14	14091	Pass
173	174	0	2	0.46	777	Pass
174	95	50	120	85.36	168507	Pass
175	174	5	9	7.52	12676	Pass
176	174	95	101	96.97	163397	Pass
177	176	5	9	6.46	10563	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1914502-02	I:\ACQUDATA\MSVOA14\Data\121219\N2346.D\	12/12/19 11:21	
Lab Control Sample	RQ1914502-03	I:\ACQUDATA\MSVOA14\Data\121219\N2347.D\	12/12/19 12:01	
Method Blank	RQ1914502-04	I:\ACQUDATA\MSVOA14\Data\121219\N2349.D\	12/12/19 12:50	
SB8 1-2	R1911947-001	I:\ACQUDATA\MSVOA14\Data\121219\N2361.D\	12/12/19 17:33	
SB8 6-8	R1911947-002	I:\ACQUDATA\MSVOA14\Data\121219\N2362.D\	12/12/19 17:56	
SB11 1-2	R1911947-003	I:\ACQUDATA\MSVOA14\Data\121219\N2363.D\	12/12/19 18:19	
SB11 6-8	R1911947-004	I:\ACQUDATA\MSVOA14\Data\121219\N2364.D\	12/12/19 18:42	
SB11 6-8 Dup	R1911947-005	I:\ACQUDATA\MSVOA14\Data\121219\N2365.D\	12/12/19 19:05	
SB9 2-4	R1911947-006	I:\ACQUDATA\MSVOA14\Data\121219\N2366.D\	12/12/19 19:28	
SB9 11-13	R1911947-007	I:\ACQUDATA\MSVOA14\Data\121219\N2367.D\	12/12/19 19:51	
SB10 2-4	R1911947-008	I:\ACQUDATA\MSVOA14\Data\121219\N2368.D\	12/12/19 20:14	
SB10 12-14	R1911947-009	I:\ACQUDATA\MSVOA14\Data\121219\N2369.D\	12/12/19 20:37	
SB11 6-8	RQ1914502-05	I:\ACQUDATA\MSVOA14\Data\121219\N2370.D\	12/12/19 21:00	
SB11 6-8	RQ1914502-06	I:\ACQUDATA\MSVOA14\Data\121219\N2371.D\	12/12/19 21:23	

Client: Leader Professional Services, Inc. **Service Request:**R1911947
Project: Tonawanda Bisonite Paint **Date Analyzed:**12/16/19 09:52

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA14\Data\121619\N2456.D\ **Analytical Method:** 8260C
Instrument ID: R-MS-14 **Analysis Lot:** 663501

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	19.83	38667	Pass
75	95	30	60	50.28	98024	Pass
95	95	100	100	100.00	194954	Pass
96	95	5	9	6.77	13196	Pass
173	174	0	2	0.25	416	Pass
174	95	50	120	84.39	164517	Pass
175	174	5	9	7.82	12863	Pass
176	174	95	101	96.49	158749	Pass
177	176	5	9	6.61	10487	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1914665-02	I:\ACQUDATA\MSVOA14\Data\121619\N2457.D\	12/16/19 10:28	
Lab Control Sample	RQ1914665-03	I:\ACQUDATA\MSVOA14\Data\121619\N2460.D\	12/16/19 12:52	
Method Blank	RQ1914665-04	I:\ACQUDATA\MSVOA14\Data\121619\N2463.D\	12/16/19 14:07	
SB8 6-8	R1911947-002	I:\ACQUDATA\MSVOA14\Data\121619\N2464.D\	12/16/19 14:43	
SB11 1-2	R1911947-003	I:\ACQUDATA\MSVOA14\Data\121619\N2465.D\	12/16/19 15:05	
SB10 12-14	R1911947-009	I:\ACQUDATA\MSVOA14\Data\121619\N2466.D\	12/16/19 15:27	

Client: Leader Professional Services, Inc. **Service Request:** R1911947
Project: Tonawanda Bisonite Paint **Date Analyzed:** 12/12/19 11:21

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA14\Data\121219\N2346.D\ **Lab Code:** RQ1914502-02
Instrument ID: R-MS-14 **Analysis Lot:** 663067
Analysis Method: 8260C **Signal ID:** 1

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	350,684	11.73	703,483	5.93	626,975	9.58
	Upper Limit ==>	701,368	12.23	1,406,966	6.43	1,253,950	10.08
	Lower Limit ==>	175,342	11.23	351,742	5.43	313,488	9.08
Associated Analyses							
Lab Control Sample	RQ1914502-03	348608	11.73	691766	5.93	618290	9.58
Method Blank	RQ1914502-04	355800	11.73	711316	5.94	641805	9.58
SB8 1-2	R1911947-001	233594	11.73	630467	5.93	524576	9.58
SB8 6-8	R1911947-002	275887	11.73	567433	5.94	504532	9.58
SB11 1-2	R1911947-003	228702	11.73	667817	5.93	554494	9.58
SB11 6-8	R1911947-004	277164	11.73	615555	5.93	546698	9.58
SB11 6-8 Dup	R1911947-005	260016	11.73	613219	5.93	524969	9.58
SB9 2-4	R1911947-006	293166	11.73	601868	5.94	535108	9.58
SB9 11-13	R1911947-007	262111	11.73	629237	5.93	543033	9.58
SB10 2-4	R1911947-008	268769	11.73	569962	5.93	509126	9.58
SB10 12-14	R1911947-009	269860	11.73	559484	5.93	499037	9.58
SB11 6-8MS	RQ1914502-05	293429	11.73	557259	5.93	502994	9.58
SB11 6-8DMS	RQ1914502-06	286344	11.73	655775	5.93	557665	9.58

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Leader Professional Services, Inc. **Service Request:**R1911947
Project: Tonawanda Bisonite Paint **Date Analyzed:**12/12/19 11:21

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA14\Data\121219\N2346.D\ **Lab Code:**RQ1914502-02
Instrument ID: R-MS-14 **Analysis Lot:**663067
Analysis Method: 8260C **Signal ID:**1

		Pentafluorobenzene	
		Area	**RT**
	Result ==>	470,081	4.68
	Upper Limit ==>	940,162	5.18
	Lower Limit ==>	235,041	4.18
Associated Analyses			
Lab Control Sample	RQ1914502-03	471394	4.68
Method Blank	RQ1914502-04	477780	4.68
SB8 1-2	R1911947-001	433387	4.68
SB8 6-8	R1911947-002	381769	4.68
SB11 1-2	R1911947-003	455783	4.68
SB11 6-8	R1911947-004	421130	4.68
SB11 6-8 Dup	R1911947-005	419881	4.68
SB9 2-4	R1911947-006	406847	4.68
SB9 11-13	R1911947-007	421711	4.68
SB10 2-4	R1911947-008	378944	4.68
SB10 12-14	R1911947-009	379537	4.68
SB11 6-8MS	RQ1914502-05	374476	4.68
SB11 6-8DMS	RQ1914502-06	444335	4.68

Client: Leader Professional Services, Inc. **Service Request:** R1911947
Project: Tonawanda Bisonite Paint **Date Analyzed:** 12/16/19 10:28

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA14\Data\121619\N2457.D\ **Lab Code:** RQ1914665-02
Instrument ID: R-MS-14 **Analysis Lot:** 663501
Analysis Method: 8260C **Signal ID:** 1

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	377,823	11.73	727,932	5.93	658,801	9.58
	Upper Limit ==>	755,646	12.23	1,455,864	6.43	1,317,602	10.08
	Lower Limit ==>	188,912	11.23	363,966	5.43	329,401	9.08
Associated Analyses							
Lab Control Sample	RQ1914665-03	357903	11.74	758162	5.92	663884	9.58
Method Blank	RQ1914665-04	315443	11.74	702690	5.93	582531	9.58
SB8 6-8	R1911947-002	335630	11.74	732610	5.93	627857	9.58
SB11 1-2	R1911947-003	319819	11.74	634186	5.93	558773	9.58
SB10 12-14	R1911947-009	320457	11.74	686027	5.93	586755	9.58

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Leader Professional Services, Inc. **Service Request:** R1911947
Project: Tonawanda Bisonite Paint **Date Analyzed:** 12/16/19 10:28

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA14\Data\121619\N2457.D\ **Lab Code:** RQ1914665-02
Instrument ID: R-MS-14 **Analysis Lot:** 663501
Analysis Method: 8260C **Signal ID:** 1

		Pentafluorobenzene	
		Area	**RT**
	Result ==>	491,313	4.67
	Upper Limit ==>	982,626	5.17
	Lower Limit ==>	245,657	4.17
Associated Analyses			
Lab Control Sample	RQ1914665-03	517010	4.67
Method Blank	RQ1914665-04	475982	4.68
SB8 6-8	R1911947-002	503137	4.67
SB11 1-2	R1911947-003	434447	4.68
SB10 12-14	R1911947-009	467669	4.68

Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Leader Professional Services, Inc. **Service Request:** R1911947
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3541

Sample Name	Lab Code	2,4,6-Tribromophenol 10-109	2-Fluorobiphenyl 10-102	2-Fluorophenol 10-88
SB8 1-2	R1911947-001	83	61	50
SB8 6-8	R1911947-002	87	63	56
SB11 1-2	R1911947-003	92	54	46
SB11 6-8	R1911947-004	85	60	52
SB11 6-8 Dup	R1911947-005	68	54	47
SB9 2-4	R1911947-006	64	54	47
SB9 11-13	R1911947-007	8*	30	6*
SB10 2-4	R1911947-008	62	36	28
SB10 12-14	R1911947-009	62	49	40
Method Blank	RQ1914484-01	67	57	46
Lab Control Sample	RQ1914484-02	75	58	50
Duplicate Lab Control Sample	RQ1914484-03	77	53	48
SB11 6-8 MS	RQ1914484-04	82	62	52
SB11 6-8 DMS	RQ1914484-05	81	60	49

Client: Leader Professional Services, Inc. **Service Request:** R1911947
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3541

Sample Name	Lab Code	Nitrobenzene-d5 10-95	Phenol-d6 10-145	Terphenyl-d14 10-106
SB8 1-2	R1911947-001	52	49	89
SB8 6-8	R1911947-002	64	55	96
SB11 1-2	R1911947-003	48	47	95
SB11 6-8	R1911947-004	57	53	87
SB11 6-8 Dup	R1911947-005	48	46	83
SB9 2-4	R1911947-006	50	48	86
SB9 11-13	R1911947-007	24	26	67
SB10 2-4	R1911947-008	30	29	87
SB10 12-14	R1911947-009	43	42	80
Method Blank	RQ1914484-01	48	50	82
Lab Control Sample	RQ1914484-02	53	50	84
Duplicate Lab Control Sample	RQ1914484-03	50	48	86
SB11 6-8 MS	RQ1914484-04	58	52	92
SB11 6-8 DMS	RQ1914484-05	55	50	83

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19
		Date Analyzed:	12/23/19
		Date Extracted:	12/12/19

Duplicate Matrix Spike Summary
Semivolatile Organic Compounds by GC/MS

Sample Name:	SB11 6-8	**Units:**	ug/Kg
Lab Code:	R1911947-004	**Basis:**	Dry
Analysis Method:	8270D		
Prep Method:	EPA 3541		

		Matrix Spike			Duplicate Matrix Spike					
		RQ1914484-04			RQ1914484-05					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,2,4,5-Tetrachlorobenzene	360 U	1350	1840	73	1220	1850	66	10-115	10	30
2,3,4,6-Tetrachlorophenol	360 U	1300	1840	71	1220	1850	66	10-123	7	30
2,4,5-Trichlorophenol	360 U	1410	1840	77	1290	1850	70	12-109	10	30
2,4,6-Trichlorophenol	360 U	1350	1840	74	1290	1850	70	13-149	6	30
2,4-Dichlorophenol	360 U	1380	1840	75	1330	1850	72	16-98	4	30
2,4-Dimethylphenol	360 U	1100	1840	60	1020	1850	55	10-98	9	30
2,4-Dinitrophenol	1900 U	1420 J	1840	77	1180 J	1850	64	10-129	18	30
2,4-Dinitrotoluene	360 U	1540	1840	84	1440	1850	78	10-124	7	30
2,6-Dinitrotoluene	360 U	1440	1840	78	1370	1850	74	13-112	5	30
2-Chloronaphthalene	360 U	1230	1840	67	1170	1850	63	10-94	6	30
2-Chlorophenol	360 U	1080	1840	59	998	1850	54	14-99	9	30
2-Methylnaphthalene	360 U	1220	1840	66	1140	1850	62	10-90	6	30
2-Methylphenol	360 U	1090	1840	59	1010	1850	54	10-86	9	30
2-Nitroaniline	1900 U	1150 J	1840	63	1110 J	1850	60	10-109	5	30
2-Nitrophenol	360 U	1400	1840	76	1250	1850	67	10-90	13	30
3,3'-Dichlorobenzidine	360 U	1420	1840	77	1280	1850	69	10-118	11	30
3- and 4-Methylphenol Coelution	360 U	1140	1840	62	1060	1850	58	11-101	7	30
3-Nitroaniline	1900 U	1190 J	1840	65	1070 J	1850	58	10-104	11	30
4,6-Dinitro-2-methylphenol	1900 U	1540 J	1840	84	1340 J	1850	73	10-123	14	30
4-Bromophenyl Phenyl Ether	360 U	1250	1840	68	1160	1850	63	10-99	8	30
4-Chloro-3-methylphenol	360 U	1210	1840	66	1170	1850	63	10-108	5	30
4-Chloroaniline	360 U	855	1840	47	684	1850	37	10-91	24	30
4-Chlorophenyl Phenyl Ether	360 U	1170	1840	64	1130	1850	61	10-95	5	30
4-Nitroaniline	1900 U	1430 J	1840	78	1350 J	1850	73	10-137	7	30
4-Nitrophenol	1900 U	1050 J	1840	57	1010 J	1850	55	10-130	4	30
Acenaphthene	360 U	1250	1840	68	1200	1850	65	10-100	5	30
Acenaphthylene	360 U	1280	1840	70	1230	1850	66	10-102	6	30
Acetophenone	360 U	2010	3670	55	1840	3690	50	12-99	10	30
Anthracene	140 J	1330	1840	65	1240	1850	60	10-129	8	30
Atrazine	360 U	1700	1840	92	1550	1850	84	15-133	9	30
Benz(a)anthracene	620	1550	1840	51	1500	1850	48	10-122	6	30
Benzaldehyde	1900 U	940 J	1840	51	887 J	1850	48	10-103	6	30
Benzo(a)pyrene	580	1810	1840	67	1730	1850	62	10-122	8	30
Benzo(b)fluoranthene	790	1710	1840	50	1650	1850	46	10-112	8	30
Benzo(g,h,i)perylene	410	1840	1840	78	1690	1850	70	10-136	11	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19
		Date Analyzed:	12/23/19
		Date Extracted:	12/12/19

Duplicate Matrix Spike Summary
Semivolatile Organic Compounds by GC/MS

Sample Name:	SB11 6-8	**Units:**	ug/Kg
Lab Code:	R1911947-004	**Basis:**	Dry
Analysis Method:	8270D		
Prep Method:	EPA 3541		

		Matrix Spike			Duplicate Matrix Spike					
		RQ1914484-04			RQ1914484-05					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Benzo(k)fluoranthene	310 J	1730	1840	77	1620	1850	71	10-112	8	30
Biphenyl	360 U	1150	1840	63	1090	1850	59	10-99	7	30
2,2'-Oxybis(1-chloropropane)	360 U	846	1840	46	761	1850	41	10-87	11	30
Bis(2-chloroethoxy)methane	360 U	1060	1840	58	964	1850	52	16-93	11	30
Bis(2-chloroethyl) Ether	360 U	903	1840	49	833	1850	45	10-79	9	30
Bis(2-ethylhexyl) Phthalate	550 U	1460	1840	79	1310	1850	71	10-116	11	30
Butyl Benzyl Phthalate	360 U	1520	1840	83	1370	1850	74	10-128	11	30
Caprolactam	360 U	1230	1840	67	1130	1850	61	10-112	9	30
Carbazole	160 J	1400	1840	68	1340	1850	64	10-138	6	30
Chrysene	640	1580	1840	51	1520	1850	48	10-113	6	30
Di-n-butyl Phthalate	360 U	1310	1840	71	1230	1850	67	10-119	6	30
Di-n-octyl Phthalate	360 U	1460	1840	79	1320	1850	72	10-121	9	30
Dibenz(a,h)anthracene	360 U	1100	1840	60	1020	1850	55	10-130	9	30
Dibenzofuran	360 U	1290	1840	70	1250	1850	68	10-102	3	30
Diethyl Phthalate	360 U	1270	1840	69	1190	1850	64	10-101	8	30
Dimethyl Phthalate	360 U	1270	1840	69	1190	1850	64	10-113	8	30
Fluoranthene	1300	1540	1840	15	1550	1850	16	10-125	6	30
Fluorene	360 U	1280	1840	70	1260	1850	68	10-109	3	30
Hexachlorobenzene	360 U	1480	1840	80	1430	1850	77	10-106	4	30
Hexachlorobutadiene	360 U	1360	1840	74	1270	1850	69	10-142	7	30
Hexachlorocyclopentadiene	360 U	1050	1840	57	957	1850	52	10-133	9	30
Hexachloroethane	360 U	907	1840	49	821	1850	44	10-129	11	30
Indeno(1,2,3-cd)pyrene	440	1870	1840	78	1750	1850	71	10-124	9	30
Isophorone	360 U	925	1840	50	853	1850	46	10-81	8	30
N-Nitrosodi-n-propylamine	360 U	960	1840	52	877	1850	47	10-76	10	30
N-Nitrosodiphenylamine	360 U	1570	1840	85	1460	1850	79	10-114	7	30
Naphthalene	360 U	1160	1840	63	1080	1850	59	10-89	7	30
Nitrobenzene	360 U	1030	1840	56	957	1850	52	10-77	7	30
Pentachlorophenol (PCP)	1900 U	1380 J	1840	75	1190 J	1850	64	10-118	16	30
Phenanthrene	650	1410	1840	41	1330	1850	37	10-137	10	30
Phenol	360 U	1150	1840	63	1050	1850	57	10-144	10	30
Pyrene	1300	1770	1840	28	1750	1850	26	10-118	7	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Analyzed:**	12/20/19 15:33
Sample Matrix:	Soil	**Date Extracted:**	12/12/19

Method Blank Summary
Semivolatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Instrument ID:**	R-MS-51
Lab Code:	RQ1914484-01	**File ID:**	I:\ACQUDATA\5973A\DATA\122019\DU948.D\
Analysis Method:	8270D	**Analysis Lot:**	664503,664504
Prep Method:	EPA 3541	**Extraction Lot:**	350331

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Duplicate Lab Control Sample	RQ1914484-03	I:\ACQUDATA\5973A\DATA\122019\DU944.D\	12/20/19 13:38
Lab Control Sample	RQ1914484-02	I:\ACQUDATA\5973A\DATA\122019\DU949.D\	12/20/19 16:01
SB8 1-2	R1911947-001	I:\ACQUDATA\5973A\DATA\122319\DU971.D\	12/23/19 12:24
SB8 6-8	R1911947-002	I:\ACQUDATA\5973A\DATA\122319\DU972.D\	12/23/19 12:52
SB11 1-2	R1911947-003	I:\ACQUDATA\5973A\DATA\122319\DU973.D\	12/23/19 13:20
SB11 6-8	R1911947-004	I:\ACQUDATA\5973A\DATA\122319\DU974.D\	12/23/19 13:48
SB11 6-8MS	RQ1914484-04	I:\ACQUDATA\5973A\DATA\122319\DU975.D\	12/23/19 14:16
SB11 6-8DMS	RQ1914484-05	I:\ACQUDATA\5973A\DATA\122319\DU976.D\	12/23/19 14:45
SB11 6-8 Dup	R1911947-005	I:\ACQUDATA\5973A\DATA\122319\DU977.D\	12/23/19 15:14
SB9 2-4	R1911947-006	I:\ACQUDATA\5973A\DATA\122319\DU978.D\	12/23/19 15:42
SB9 11-13	R1911947-007	I:\ACQUDATA\5973A\DATA\122319\DU979.D\	12/23/19 16:11
SB10 2-4	R1911947-008	I:\ACQUDATA\5973A\DATA\122319\DU980.D\	12/23/19 16:39
SB10 12-14	R1911947-009	I:\ACQUDATA\5973A\DATA\122319\DU981.D\	12/23/19 17:08

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914484-01	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	320 U	320	78	1	12/20/19 15:33	12/12/19	
2,3,4,6-Tetrachlorophenol	320 U	320	69	1	12/20/19 15:33	12/12/19	
2,4,5-Trichlorophenol	320 U	320	280	1	12/20/19 15:33	12/12/19	
2,4,6-Trichlorophenol	320 U	320	58	1	12/20/19 15:33	12/12/19	
2,4-Dichlorophenol	320 U	320	70	1	12/20/19 15:33	12/12/19	
2,4-Dimethylphenol	320 U	320	72	1	12/20/19 15:33	12/12/19	
2,4-Dinitrophenol	1700 U	1700	120	1	12/20/19 15:33	12/12/19	
2,4-Dinitrotoluene	320 U	320	130	1	12/20/19 15:33	12/12/19	
2,6-Dinitrotoluene	320 U	320	96	1	12/20/19 15:33	12/12/19	
2-Chloronaphthalene	320 U	320	79	1	12/20/19 15:33	12/12/19	
2-Chlorophenol	320 U	320	81	1	12/20/19 15:33	12/12/19	
2-Methylnaphthalene	320 U	320	72	1	12/20/19 15:33	12/12/19	
2-Methylphenol	320 U	320	71	1	12/20/19 15:33	12/12/19	
2-Nitroaniline	1700 U	1700	98	1	12/20/19 15:33	12/12/19	
2-Nitrophenol	320 U	320	95	1	12/20/19 15:33	12/12/19	
3,3'-Dichlorobenzidine	320 U	320	69	1	12/20/19 15:33	12/12/19	
3- and 4-Methylphenol Coelution	320 U	320	63	1	12/20/19 15:33	12/12/19	
3-Nitroaniline	1700 U	1700	70	1	12/20/19 15:33	12/12/19	
4,6-Dinitro-2-methylphenol	1700 U	1700	140	1	12/20/19 15:33	12/12/19	
4-Bromophenyl Phenyl Ether	320 U	320	120	1	12/20/19 15:33	12/12/19	
4-Chloro-3-methylphenol	320 U	320	72	1	12/20/19 15:33	12/12/19	
4-Chloroaniline	320 U	320	78	1	12/20/19 15:33	12/12/19	
4-Chlorophenyl Phenyl Ether	320 U	320	79	1	12/20/19 15:33	12/12/19	
4-Nitroaniline	1700 U	1700	70	1	12/20/19 15:33	12/12/19	
4-Nitrophenol	1700 U	1700	110	1	12/20/19 15:33	12/12/19	
Acenaphthene	320 U	320	74	1	12/20/19 15:33	12/12/19	
Acenaphthylene	320 U	320	87	1	12/20/19 15:33	12/12/19	
Acetophenone	320 U	320	75	1	12/20/19 15:33	12/12/19	
Anthracene	320 U	320	92	1	12/20/19 15:33	12/12/19	
Atrazine	320 U	320	130	1	12/20/19 15:33	12/12/19	
Benz(a)anthracene	320 U	320	97	1	12/20/19 15:33	12/12/19	
Benzaldehyde	1700 U	1700	65	1	12/20/19 15:33	12/12/19	
Benzo(a)pyrene	320 U	320	120	1	12/20/19 15:33	12/12/19	
Benzo(b)fluoranthene	320 U	320	110	1	12/20/19 15:33	12/12/19	
Benzo(g,h,i)perylene	320 U	320	87	1	12/20/19 15:33	12/12/19	
Benzo(k)fluoranthene	320 U	320	120	1	12/20/19 15:33	12/12/19	
Biphenyl	320 U	320	81	1	12/20/19 15:33	12/12/19	
2,2'-Oxybis(1-chloropropane)	320 U	320	130	1	12/20/19 15:33	12/12/19	
Bis(2-chloroethoxy)methane	320 U	320	88	1	12/20/19 15:33	12/12/19	
Bis(2-chloroethyl) Ether	320 U	320	86	1	12/20/19 15:33	12/12/19	
Bis(2-ethylhexyl) Phthalate	490 U	490	88	1	12/20/19 15:33	12/12/19	
Butyl Benzyl Phthalate	320 U	320	82	1	12/20/19 15:33	12/12/19	
Caprolactam	320 U	320	86	1	12/20/19 15:33	12/12/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914484-01	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	320 U	320	95	1	12/20/19 15:33	12/12/19	
Chrysene	320 U	320	120	1	12/20/19 15:33	12/12/19	
Di-n-butyl Phthalate	320 U	320	100	1	12/20/19 15:33	12/12/19	
Di-n-octyl Phthalate	320 U	320	97	1	12/20/19 15:33	12/12/19	
Dibenz(a,h)anthracene	320 U	320	98	1	12/20/19 15:33	12/12/19	
Dibenzofuran	320 U	320	65	1	12/20/19 15:33	12/12/19	
Diethyl Phthalate	320 U	320	70	1	12/20/19 15:33	12/12/19	
Dimethyl Phthalate	320 U	320	74	1	12/20/19 15:33	12/12/19	
Fluoranthene	320 U	320	120	1	12/20/19 15:33	12/12/19	
Fluorene	320 U	320	76	1	12/20/19 15:33	12/12/19	
Hexachlorobenzene	320 U	320	100	1	12/20/19 15:33	12/12/19	
Hexachlorobutadiene	320 U	320	80	1	12/20/19 15:33	12/12/19	
Hexachlorocyclopentadiene	320 U	320	72	1	12/20/19 15:33	12/12/19	
Hexachloroethane	320 U	320	85	1	12/20/19 15:33	12/12/19	
Indeno(1,2,3-cd)pyrene	320 U	320	110	1	12/20/19 15:33	12/12/19	
Isophorone	320 U	320	90	1	12/20/19 15:33	12/12/19	
N-Nitrosodi-n-propylamine	320 U	320	88	1	12/20/19 15:33	12/12/19	
N-Nitrosodiphenylamine	320 U	320	220	1	12/20/19 15:33	12/12/19	
Naphthalene	320 U	320	85	1	12/20/19 15:33	12/12/19	
Nitrobenzene	320 U	320	85	1	12/20/19 15:33	12/12/19	
Pentachlorophenol (PCP)	1700 U	1700	110	1	12/20/19 15:33	12/12/19	
Phenanthrene	320 U	320	96	1	12/20/19 15:33	12/12/19	
Phenol	320 U	320	78	1	12/20/19 15:33	12/12/19	
Pyrene	320 U	320	130	1	12/20/19 15:33	12/12/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	67	10 - 109	12/20/19 15:33	
2-Fluorobiphenyl	57	10 - 102	12/20/19 15:33	
2-Fluorophenol	46	10 - 88	12/20/19 15:33	
Nitrobenzene-d5	48	10 - 95	12/20/19 15:33	
Phenol-d6	50	10 - 145	12/20/19 15:33	
Terphenyl-d14	82	10 - 106	12/20/19 15:33	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
000763-93-9	3-Hexen-2-one	3.10	1300	JN
	unknown	3.52	45000	J
	unknown	5.52	1100	J

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Analyzed:**	12/20/19 16:01
Sample Matrix:	Soil	**Date Extracted:**	12/12/19

Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Sample Name:	Lab Control Sample	**Instrument ID:**	R-MS-51
Lab Code:	RQ1914484-02	**File ID:**	I:\ACQUDATA\5973A\DATA\122019\DU949.D\
Analysis Method:	8270D	**Analysis Lot:**	664503,664504
Prep Method:	EPA 3541	**Extraction Lot:**	350331

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Duplicate Lab Control Sample	RQ1914484-03	I:\ACQUDATA\5973A\DATA\122019\DU944.D\	12/20/19 13:38
Method Blank	RQ1914484-01	I:\ACQUDATA\5973A\DATA\122019\DU948.D\	12/20/19 15:33
SB8 1-2	R1911947-001	I:\ACQUDATA\5973A\DATA\122319\DU971.D\	12/23/19 12:24
SB8 6-8	R1911947-002	I:\ACQUDATA\5973A\DATA\122319\DU972.D\	12/23/19 12:52
SB11 1-2	R1911947-003	I:\ACQUDATA\5973A\DATA\122319\DU973.D\	12/23/19 13:20
SB11 6-8	R1911947-004	I:\ACQUDATA\5973A\DATA\122319\DU974.D\	12/23/19 13:48
SB11 6-8MS	RQ1914484-04	I:\ACQUDATA\5973A\DATA\122319\DU975.D\	12/23/19 14:16
SB11 6-8DMS	RQ1914484-05	I:\ACQUDATA\5973A\DATA\122319\DU976.D\	12/23/19 14:45
SB11 6-8 Dup	R1911947-005	I:\ACQUDATA\5973A\DATA\122319\DU977.D\	12/23/19 15:14
SB9 2-4	R1911947-006	I:\ACQUDATA\5973A\DATA\122319\DU978.D\	12/23/19 15:42
SB9 11-13	R1911947-007	I:\ACQUDATA\5973A\DATA\122319\DU979.D\	12/23/19 16:11
SB10 2-4	R1911947-008	I:\ACQUDATA\5973A\DATA\122319\DU980.D\	12/23/19 16:39
SB10 12-14	R1911947-009	I:\ACQUDATA\5973A\DATA\122319\DU981.D\	12/23/19 17:08

Client: Leader Professional Services, Inc. **Service Request:** R1911947
Project: Tonawanda Bisonite Paint **Date Analyzed:** 12/20/19
Sample Matrix: Soil

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/Kg
Basis: Dry

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ1914484-02			RQ1914484-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,2,4,5-Tetrachlorobenzene	8270D	1080	1670	65	962	1660	58	10-115	11	30
2,3,4,6-Tetrachlorophenol	8270D	1120	1660	67	1170	1660	71	29-100	6	30
2,4,5-Trichlorophenol	8270D	1060	1660	64	1080	1660	65	29-97	2	30
2,4,6-Trichlorophenol	8270D	1110	1660	67	1090	1660	66	26-97	2	30
2,4-Dichlorophenol	8270D	1090	1660	66	1010	1660	61	25-90	8	30
2,4-Dimethylphenol	8270D	958	1660	58	890	1660	54	26-89	7	30
2,4-Dinitrophenol	8270D	583 J	1660	35	588 J	1660	35	10-128	<1	30
2,4-Dinitrotoluene	8270D	1280	1660	77	1370	1660	82	30-111	6	30
2,6-Dinitrotoluene	8270D	1220	1660	73	1220	1660	73	28-105	<1	30
2-Chloronaphthalene	8270D	1010	1660	61	960	1660	58	21-88	5	30
2-Chlorophenol	8270D	876	1660	53	878	1660	53	18-87	<1	30
2-Methylnaphthalene	8270D	978	1660	59	932	1660	56	21-83	5	30
2-Methylphenol	8270D	902	1660	54	881	1660	53	22-86	2	30
2-Nitroaniline	8270D	988 J	1660	59	1050 J	1660	63	27-105	7	30
2-Nitrophenol	8270D	1080	1660	65	1020	1660	62	20-88	5	30
3- and 4-Methylphenol Coelution	8270D	967	1660	58	925	1660	56	27-92	4	30
3-Nitroaniline	8270D	805 J	1660	48	953 J	1660	57	27-98	17	30
4,6-Dinitro-2-methylphenol	8270D	913 J	1660	55	922 J	1660	56	11-96	2	30
4-Bromophenyl Phenyl Ether	8270D	968	1660	58	978	1660	59	25-96	2	30
4-Chloro-3-methylphenol	8270D	998	1660	60	1020	1660	61	29-92	2	30
4-Chloroaniline	8270D	500	1660	30	564	1660	34	21-72	13	30
4-Chlorophenyl Phenyl Ether	8270D	990	1660	60	1000	1660	60	25-92	<1	30
4-Nitroaniline	8270D	1270 J	1660	76	1360 J	1660	82	27-102	8	30
4-Nitrophenol	8270D	948 J	1660	57	1000 J	1660	60	10-130	5	30
Acenaphthene	8270D	1040	1660	63	1030	1660	62	25-92	2	30
Acenaphthylene	8270D	1090	1660	66	1090	1660	66	27-93	<1	30
Acetophenone	8270D	1690	3320	51	1650	3320	50	23-87	2	30
Anthracene	8270D	1090	1660	66	1160	1660	70	32-106	6	30
Benz(a)anthracene	8270D	1210	1660	73	1310	1660	79	33-109	8	30
Benzo(a)pyrene	8270D	1410	1660	85	1550	1660	93	34-115	9	30
Benzo(b)fluoranthene	8270D	1280	1660	77	1410	1660	85	31-107	10	30
Benzo(g,h,i)perylene	8270D	1460	1660	88	1530	1660	92	30-127	4	30
Benzo(k)fluoranthene	8270D	1360	1660	82	1500	1660	90	34-111	9	30

Client: Leader Professional Services, Inc. **Service Request:** R1911947
Project: Tonawanda Bisonite Paint **Date Analyzed:** 12/20/19
Sample Matrix: Soil

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/Kg
Basis: Dry

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ1914484-02			RQ1914484-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Biphenyl	8270D	974	1660	59	892	1660	54	26-88	9	30
2,2'-Oxybis(1-chloropropane)	8270D	719	1660	43	723	1660	44	10-82	2	30
Bis(2-chloroethoxy)methane	8270D	865	1660	52	833	1660	50	17-85	4	30
Bis(2-chloroethyl) Ether	8270D	757	1660	46	756	1660	46	10-79	<1	30
Bis(2-ethylhexyl) Phthalate	8270D	1210	1660	73	1320	1660	80	31-115	9	30
Butyl Benzyl Phthalate	8270D	1290	1660	77	1370	1660	83	31-115	8	30
Caprolactam	8270D	1140	1660	69	1140	1660	69	28-99	<1	30
Carbazole	8270D	1190	1660	72	1280	1660	77	23-129	7	30
Chrysene	8270D	1240	1660	74	1320	1660	80	34-108	8	30
Di-n-butyl Phthalate	8270D	1110	1660	67	1210	1660	73	33-114	9	30
Di-n-octyl Phthalate	8270D	1260	1660	76	1410	1660	85	32-116	11	30
Dibenz(a,h)anthracene	8270D	919	1660	55	1040	1660	63	23-122	14	30
Dibenzofuran	8270D	1100	1660	66	1100	1660	66	27-94	<1	30
Diethyl Phthalate	8270D	1070	1660	65	1150	1660	70	26-101	7	30
Dimethyl Phthalate	8270D	1070	1660	64	1120	1660	68	27-98	6	30
Fluoranthene	8270D	1140	1660	69	1230	1660	74	34-111	7	30
Fluorene	8270D	1110	1660	67	1140	1660	69	27-95	3	30
Hexachlorobenzene	8270D	1160	1660	70	1210	1660	73	30-104	4	30
Hexachlorobutadiene	8270D	1030	1660	62	1000	1660	61	10-142	2	30
Hexachlorocyclopentadiene	8270D	976	1660	59	940	1660	57	10-133	3	30
Hexachloroethane	8270D	754	1660	45	763	1660	46	10-129	2	30
Indeno(1,2,3-cd)pyrene	8270D	1470	1660	89	1540	1660	93	33-121	4	30
Isophorone	8270D	766	1660	46	743	1660	45	21-79	2	30
N-Nitrosodi-n-propylamine	8270D	804	1660	48	795	1660	48	15-78	<1	30
N-Nitrosodiphenylamine	8270D	1270	1660	77	1340	1660	81	29-108	5	30
Naphthalene	8270D	948	1660	57	921	1660	56	18-81	2	30
Nitrobenzene	8270D	850	1660	51	829	1660	50	14-80	2	30
Pentachlorophenol (PCP)	8270D	1110 J	1660	67	1150 J	1660	70	13-117	4	30
Phenanthrene	8270D	1100	1660	66	1170	1660	70	33-103	6	30
Phenol	8270D	961	1660	58	939	1660	57	10-144	2	30
Pyrene	8270D	1300	1660	78	1400	1660	84	33-111	7	30

Client: Leader Professional Services, Inc. **Service Request:**R1911947
Project: Tonawanda Bisonite Paint **Date Analyzed:**12/20/19 11:18

Tune Summary
Semivolatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\5973A\DATA\122019\DU939.D\ **Analytical Method:** 8270D
Instrument ID: R-MS-51 **Analysis Lot:** 664503

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
51	198	10	80	32.34	180504	Pass
68	69	0.00	2	0.36	763	Pass
69	198	0.00	100	38.17	213025	Pass
70	69	0.00	2	0.66	1396	Pass
127	198	10	80	49.92	278629	Pass
197	198	0.00	2	0.00	0	Pass
198	198	100	100	100.00	558101	Pass
199	198	5	9	6.85	38212	Pass
275	198	10	60	27.76	154909	Pass
365	198	1	100	4.08	22753	Pass
441	442	0.01	24	16.14	127448	Pass
442	442	100	100	100.00	789440	Pass
443	442	15	24	19.87	156899	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1914965-04	I:\ACQUDATA\5973A\DATA\122019\DU940.D\	12/20/19 11:43	
Duplicate Lab Control Sample	RQ1914484-03	I:\ACQUDATA\5973A\DATA\122019\DU944.D\	12/20/19 13:38	
Method Blank	RQ1914484-01	I:\ACQUDATA\5973A\DATA\122019\DU948.D\	12/20/19 15:33	
Lab Control Sample	RQ1914484-02	I:\ACQUDATA\5973A\DATA\122019\DU949.D\	12/20/19 16:01	

Client: Leader Professional Services, Inc. **Service Request:**R1911947
Project: Tonawanda Bisonite Paint **Date Analyzed:**12/23/19 11:16

Tune Summary
Semivolatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\5973A\DATA\122319\DU969.D\ **Analytical Method:** 8270D
Instrument ID: R-MS-51 **Analysis Lot:** 664504

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
51	198	10	80	29.66	175419	Pass
68	69	0.00	2	0.00	0	Pass
69	198	0.00	100	34.95	206751	Pass
70	69	0.00	2	0.30	628	Pass
127	198	10	80	46.91	277496	Pass
197	198	0.00	2	0.00	0	Pass
198	198	100	100	100.00	591509	Pass
199	198	5	9	7.03	41555	Pass
275	198	10	60	28.41	168045	Pass
365	198	1	100	4.22	24961	Pass
441	442	0.01	24	16.12	148747	Pass
442	442	100	100	100.00	922859	Pass
443	442	15	24	20.48	188979	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1915053-02	I:\ACQUDATA\5973A\DATA\122319\DU970.D\	12/23/19 11:56	
SB8 1-2	R1911947-001	I:\ACQUDATA\5973A\DATA\122319\DU971.D\	12/23/19 12:24	
SB8 6-8	R1911947-002	I:\ACQUDATA\5973A\DATA\122319\DU972.D\	12/23/19 12:52	
SB11 1-2	R1911947-003	I:\ACQUDATA\5973A\DATA\122319\DU973.D\	12/23/19 13:20	
SB11 6-8	R1911947-004	I:\ACQUDATA\5973A\DATA\122319\DU974.D\	12/23/19 13:48	
SB11 6-8	RQ1914484-04	I:\ACQUDATA\5973A\DATA\122319\DU975.D\	12/23/19 14:16	
SB11 6-8	RQ1914484-05	I:\ACQUDATA\5973A\DATA\122319\DU976.D\	12/23/19 14:45	
SB11 6-8 Dup	R1911947-005	I:\ACQUDATA\5973A\DATA\122319\DU977.D\	12/23/19 15:14	
SB9 2-4	R1911947-006	I:\ACQUDATA\5973A\DATA\122319\DU978.D\	12/23/19 15:42	
SB9 11-13	R1911947-007	I:\ACQUDATA\5973A\DATA\122319\DU979.D\	12/23/19 16:11	
SB10 2-4	R1911947-008	I:\ACQUDATA\5973A\DATA\122319\DU980.D\	12/23/19 16:39	
SB10 12-14	R1911947-009	I:\ACQUDATA\5973A\DATA\122319\DU981.D\	12/23/19 17:08	

Client: Leader Professional Services, Inc. **Service Request:** R1911947
Project: Tonawanda Bisonite Paint **Date Analyzed:** 12/20/19 11:43

Internal Standard Area and RT SUMMARY
Semivolatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\5973A\DATA\122019\DU940.D\ **Lab Code:** RQ1914965-04
Instrument ID: R-MS-51 **Analysis Lot:** 664503
Analysis Method: 8270D **Signal ID:** 1

		1,4-Dichlorobenzene-d4		Acenaphthene-d10		Chrysene-d12	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	701,043	4.70	1,376,304	7.57	2,498,079	12.23
	Upper Limit ==>	1,402,086	5.20	2,752,608	8.07	4,996,158	12.73
	Lower Limit ==>	350,522	4.20	688,152	7.07	1,249,040	11.73
Associated Analyses							
Duplicate Lab Control Sample	RQ1914484-03	698007	4.71	1354609	7.57	2487899	12.22
Method Blank	RQ1914484-01	725285	4.71	1373375	7.56	2616453	12.21
Lab Control Sample	RQ1914484-02	725667	4.71	1404445	7.56	2481769	12.22

Client: Leader Professional Services, Inc. **Service Request:** R1911947
Project: Tonawanda Bisonite Paint **Date Analyzed:** 12/20/19 11:43

Internal Standard Area and RT SUMMARY
Semivolatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\5973A\DATA\122019\DU940.D\ **Lab Code:** RQ1914965-04
Instrument ID: R-MS-51 **Analysis Lot:** 664503
Analysis Method: 8270D **Signal ID:** 1

		Naphthalene-d8		Perylene-d12		Phenanthrene-d10	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	2,220,223	5.86	2,873,618	15.08	2,245,540	9.03
	Upper Limit ==>	4,440,446	6.36	5,747,236	15.58	4,491,080	9.53
	Lower Limit ==>	1,110,112	5.36	1,436,809	14.58	1,122,770	8.53
Associated Analyses							
Duplicate Lab Control Sample	RQ1914484-03	2272184	5.86	2735548	15.07	2235027	9.02
Method Blank	RQ1914484-01	2358664	5.86	2925875	15.07	2318427	9.02
Lab Control Sample	RQ1914484-02	2352065	5.86	2761449	15.07	2284325	9.02

Client: Leader Professional Services, Inc. **Service Request:** R1911947
Project: Tonawanda Bisonite Paint **Date Analyzed:** 12/23/19 11:56

Internal Standard Area and RT SUMMARY
Semivolatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\5973A\DATA\122319\DU970.D\ **Lab Code:** RQ1915053-02
Instrument ID: R-MS-51 **Analysis Lot:** 664504
Analysis Method: 8270D **Signal ID:** 1

		1,4-Dichlorobenzene-d4		Acenaphthene-d10		Chrysene-d12	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	882,089	4.71	1,665,145	7.57	2,937,932	12.24
	Upper Limit ==>	1,764,178	5.21	3,330,290	8.07	5,875,864	12.74
	Lower Limit ==>	441,045	4.21	832,573	7.07	1,468,966	11.74
Associated Analyses							
SB8 1-2	R1911947-001	782943	4.71	1546359	7.57	2658646	12.23
SB8 6-8	R1911947-002	781535	4.71	1577950	7.57	2872120	12.23
SB11 1-2	R1911947-003	766640	4.71	1579761	7.56	2726181	12.23
SB11 6-8	R1911947-004	757757	4.71	1582560	7.57	2730171	12.24
SB11 6-8MS	RQ1914484-04	747262	4.71	1477106	7.57	2468654	12.24
SB11 6-8DMS	RQ1914484-05	748243	4.71	1470603	7.57	2615552	12.24
SB11 6-8 Dup	R1911947-005	741327	4.71	1505930	7.57	2662699	12.23
SB9 2-4	R1911947-006	762746	4.71	1594032	7.57	2822500	12.23
SB9 11-13	R1911947-007	617392	4.75	1544426	7.57	2810186	12.23
SB10 2-4	R1911947-008	787655	4.71	1598379	7.57	2727438	12.23
SB10 12-14	R1911947-009	743949	4.71	1512720	7.57	2595103	12.23

QA/QC Report

Client: Leader Professional Services, Inc. **Service Request:**R1911947
Project: Tonawanda Bisonite Paint **Date Analyzed:**12/23/19 11:56

Internal Standard Area and RT SUMMARY
Semivolatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\5973A\DATA\122319\DU970.D\ **Lab Code:**RQ1915053-02
Instrument ID: R-MS-51 **Analysis Lot:**664504
Analysis Method: 8270D **Signal ID:**1

		Naphthalene-d8		Perylene-d12		Phenanthrene-d10	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	2,698,536	5.87	3,209,441	15.10	2,724,223	9.04
	Upper Limit ==>	5,397,072	6.37	6,418,882	15.60	5,448,446	9.54
	Lower Limit ==>	1,349,268	5.37	1,604,721	14.60	1,362,112	8.54
Associated Analyses							
SB8 1-2	R1911947-001	2460266	5.86	3056413	15.09	2475497	9.03
SB8 6-8	R1911947-002	2451445	5.86	3210338	15.09	2519492	9.03
SB11 1-2	R1911947-003	2453626	5.86	3024870	15.10	2523405	9.03
SB11 6-8	R1911947-004	2455825	5.86	3108627	15.10	2561990	9.03
SB11 6-8MS	RQ1914484-04	2382594	5.86	2800219	15.09	2337736	9.03
SB11 6-8DMS	RQ1914484-05	2348553	5.86	3004812	15.10	2371776	9.03
SB11 6-8 Dup	R1911947-005	2421866	5.86	3034812	15.09	2411252	9.03
SB9 2-4	R1911947-006	2477376	5.86	3198556	15.09	2517730	9.03
SB9 11-13	R1911947-007	2260189	5.90	3131633	15.11	2528910	9.03
SB10 2-4	R1911947-008	2506639	5.87	3100712	15.10	2524049	9.03
SB10 12-14	R1911947-009	2391295	5.87	2987981	15.10	2407585	9.04

Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Leader Professional Services, Inc. **Service Request:** R1911947
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY
Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Extraction Method: EPA 3541

Sample Name	Lab Code	Decachlorobiphenyl 10-145	Tetrachloro-m-xylene 10-123
SB8 1-2	R1911947-001	72	60
SB8 6-8	R1911947-002	69	35
SB11 1-2	R1911947-003	120	106
SB11 6-8	R1911947-004	108	54
SB11 6-8 Dup	R1911947-005	100	67
SB9 2-4	R1911947-006	98	59
SB9 11-13	R1911947-007	114	106
SB10 2-4	R1911947-008	84	52
SB10 12-14	R1911947-009	90	33
Method Blank	RQ1914443-01	47	55
Method Blank	RQ1914443-01	66	59
Method Blank	RQ1914487-05	96	72
Lab Control Sample	RQ1914443-02	54	62
Lab Control Sample	RQ1914443-02	74	65
Duplicate Lab Control Sample	RQ1914443-03	58	70
Duplicate Lab Control Sample	RQ1914443-03	74	67
Lab Control Sample	RQ1914487-06	69	57
Duplicate Lab Control Sample	RQ1914487-07	90	73
SB11 6-8 MS	RQ1914487-01	107	48
SB11 6-8 DMS	RQ1914487-02	117	66

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19
		Date Analyzed:	01/3/20
		Date Extracted:	12/12/19

Duplicate Matrix Spike Summary
Organochlorine Pesticides by Gas Chromatography

Sample Name:	SB11 6-8	**Units:**	ug/Kg
Lab Code:	R1911947-004	**Basis:**	Dry
Analysis Method:	8081B		
Prep Method:	EPA 3541		

		Matrix Spike RQ1914487-01			Duplicate Matrix Spike RQ1914487-02					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
4,4'-DDD	9.7 U	8.92 J	7.63	117	9.75	7.46	131	10-165	9	30
4,4'-DDE	9.7 U	7.26 J	7.63	95	8.27 J	7.46	111	10-200	13	30
4,4'-DDT	9.7 U	8.65 J	7.63	113	9.83	7.46	132	10-200	13	30
Aldrin	9.7 U	5.26 J	7.63	69	6.64 J	7.46	89	10-171	23	30
Dieldrin	9.7 U	10.9	7.63	142	8.45 J	7.46	113	10-200	25	30
Endosulfan I	9.7 U	6.84 J	7.63	90	7.83 J	7.46	105	10-174	14	30
Endosulfan II	9.7 U	7.83 J	7.63	103	8.57 J	7.46	115	10-185	9	30
Endosulfan Sulfate	9.7 U	8.13 J	7.63	106	8.96 J	7.46	120	10-155	10	30
Endrin	9.7 U	8.75 J	7.63	115	9.83	7.46	132	10-200	12	30
Endrin Aldehyde	9.7 U	9.7 U	7.63	0 *	9.5 U	7.46	0 *	10-148	NC	30
Endrin Ketone	9.7 U	7.66 J	7.63	100	9.57	7.46	128	10-197	22	30
Heptachlor	9.7 U	5.29 J	7.63	69	6.86 J	7.46	92	12-160	26	30
Heptachlor Epoxide	9.7 U	7.13 J	7.63	93	8.17 J	7.46	109	10-180	14	30
Methoxychlor	9.7 U	13.2	7.63	172	15.3	7.46	205 *	10-200	15	30
alpha-BHC	9.7 U	9.7 U	7.63	0 *	5.79 J	7.46	78	10-149	NC	30
alpha-Chlordane	9.7 U	7.24 J	7.63	95	8.28 J	7.46	111	10-175	13	30
beta-BHC	9.7 U	8.14 J	7.63	107	9.14 J	7.46	122	10-162	12	30
delta-BHC	9.7 U	7.40 J	7.63	97	8.61 J	7.46	115	10-157	15	30
gamma-BHC (Lindane)	9.7 U	5.55 J	7.63	73	6.89 J	7.46	92	10-170	21	30
gamma-Chlordane	9.7 U	7.67 J	7.63	100	8.40 J	7.46	113	10-176	9	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Leader Professional Services, Inc. **Service Request:** R1911947
Project: Tonawanda Bisonite Paint **Date Analyzed:** NA
Sample Matrix: Soil

Method Blank Summary
Organochlorine Pesticides by Gas Chromatography

Sample Name: **Instrument ID:**
Lab Code: **File ID:**

Analysis Method: 8081B **Analysis Lot:**663140,664434,665578,665596

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Performance Evaluation	RQ1914526-03	I:\ACQUDATA\7890N.net\data\121119\ae7687.D\	12/12/19 02:23
Performance Evaluation	RQ2000082-01	I:\ACQUDATA\7890m\DATA\010320\az3117.D\	01/03/20 10:37
Performance Evaluation	RQ2000099-08	I:\ACQUDATA\7890m\DATA\010420\az3184.D\	01/04/20 20:41

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Analyzed:**	12/12/19 02:58
Sample Matrix:	Soil	**Date Extracted:**	12/11/19

Method Blank Summary
Organochlorine Pesticides by Gas Chromatography

Sample Name:	Method Blank	**Instrument ID:**	R-GC-63
Lab Code:	RQ1914443-01	**File ID:**	I:\ACQUDATA\7890N.net\data\121119\ae7689.D\
Analysis Method:	8081B	**Analysis Lot:**	663140,664434,665578,665596
Prep Method:	EPA 3541	**Extraction Lot:**	350243

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1914443-02	I:\ACQUDATA\7890N.net\data\121119\ae7690.D\	12/12/19 03:16
Duplicate Lab Control Sample	RQ1914443-03	I:\ACQUDATA\7890N.net\data\121119\ae7691.D\	12/12/19 03:33
Lab Control Sample	RQ1914443-02	I:\ACQUDATA\7890m\DATA\010420\az3192.D\	01/04/20 23:14
Duplicate Lab Control Sample	RQ1914443-03	I:\ACQUDATA\7890m\DATA\010420\az3193.D\	01/04/20 23:33
SB8 1-2	R1911947-001	I:\ACQUDATA\7890m\DATA\010420\az3198.D\	01/05/20 01:09
SB8 6-8	R1911947-002	I:\ACQUDATA\7890m\DATA\010420\az3199.D\	01/05/20 01:28

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Analyzed:**	12/20/19 23:29
Sample Matrix:	Soil	**Date Extracted:**	12/12/19

Method Blank Summary
Organochlorine Pesticides by Gas Chromatography

Sample Name:	Method Blank	**Instrument ID:**	R-GC-62
Lab Code:	RQ1914487-05	**File ID:**	I:\ACQUDATA\7890m\DATA\122019\az2810.D\
Analysis Method:	8081B	**Analysis Lot:**	663140,664434,665578,665596
Prep Method:	EPA 3541	**Extraction Lot:**	350334

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1914487-06	I:\ACQUDATA\7890m\DATA\122019\az2811.D\	12/20/19 23:48
Duplicate Lab Control Sample	RQ1914487-07	I:\ACQUDATA\7890m\DATA\122019\az2812.D\	12/21/19 00:07
SB11 1-2	R1911947-003	I:\ACQUDATA\7890m\DATA\010320\az3120.D\	01/03/20 12:19
SB11 6-8	R1911947-004	I:\ACQUDATA\7890m\DATA\010320\az3121.D\	01/03/20 12:38
SB11 6-8MS	RQ1914487-01	I:\ACQUDATA\7890m\DATA\010320\az3122.D\	01/03/20 12:57
SB11 6-8DMS	RQ1914487-02	I:\ACQUDATA\7890m\DATA\010320\az3123.D\	01/03/20 13:17
SB11 6-8 Dup	R1911947-005	I:\ACQUDATA\7890m\DATA\010320\az3124.D\	01/03/20 13:36
SB9 2-4	R1911947-006	I:\ACQUDATA\7890m\DATA\010320\az3125.D\	01/03/20 13:55
SB9 11-13	R1911947-007	I:\ACQUDATA\7890m\DATA\010320\az3126.D\	01/03/20 14:14
SB10 2-4	R1911947-008	I:\ACQUDATA\7890m\DATA\010320\az3127.D\	01/03/20 14:33
SB10 12-14	R1911947-009	I:\ACQUDATA\7890m\DATA\010320\az3128.D\	01/03/20 14:52

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914443-01	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	1.7 U	1.7	0.84	1	12/12/19 02:58	12/11/19	
4,4'-DDE	1.7 U	1.7	0.84	1	12/12/19 02:58	12/11/19	
4,4'-DDT	1.7 U	1.7	0.84	1	12/12/19 02:58	12/11/19	
Aldrin	1.7 U	1.7	0.84	1	12/12/19 02:58	12/11/19	
Dieldrin	1.7 U	1.7	0.84	1	12/12/19 02:58	12/11/19	
Endosulfan I	1.7 U	1.7	0.84	1	12/12/19 02:58	12/11/19	
Endosulfan II	1.7 U	1.7	0.84	1	12/12/19 02:58	12/11/19	
Endosulfan Sulfate	1.7 U	1.7	0.84	1	12/12/19 02:58	12/11/19	
Endrin	1.7 U	1.7	0.84	1	12/12/19 02:58	12/11/19	
Endrin Aldehyde	1.7 U	1.7	0.84	1	12/12/19 02:58	12/11/19	
Endrin Ketone	1.7 U	1.7	0.84	1	12/12/19 02:58	12/11/19	
Heptachlor	1.7 U	1.7	0.84	1	12/12/19 02:58	12/11/19	
Heptachlor Epoxide	1.7 U	1.7	0.84	1	12/12/19 02:58	12/11/19	
Methoxychlor	1.7 U	1.7	0.84	1	12/12/19 02:58	12/11/19	
Toxaphene	33 U	33	19	1	12/12/19 02:58	12/11/19	
alpha-BHC	1.7 U	1.7	0.84	1	12/12/19 02:58	12/11/19	
alpha-Chlordane	1.7 U	1.7	0.84	1	12/12/19 02:58	12/11/19	
beta-BHC	1.7 U	1.7	0.84	1	12/12/19 02:58	12/11/19	
delta-BHC	1.7 U	1.7	0.84	1	12/12/19 02:58	12/11/19	
gamma-BHC (Lindane)	1.7 U	1.7	0.84	1	12/12/19 02:58	12/11/19	
gamma-Chlordane	1.7 U	1.7	0.84	1	12/12/19 02:58	12/11/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914443-01	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	47	10 - 145	12/12/19 02:58	
Tetrachloro-m-xylene	55	10 - 123	12/12/19 02:58	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914443-01	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	1.7 U	1.7	0.84	1	01/04/20 22:55	12/11/19	
4,4'-DDE	1.7 U	1.7	0.84	1	01/04/20 22:55	12/11/19	
4,4'-DDT	1.7 U	1.7	0.84	1	01/04/20 22:55	12/11/19	
Aldrin	1.7 U	1.7	0.84	1	01/04/20 22:55	12/11/19	
Dieldrin	1.7 U	1.7	0.84	1	01/04/20 22:55	12/11/19	
Endosulfan I	1.7 U	1.7	0.84	1	01/04/20 22:55	12/11/19	
Endosulfan II	1.7 U	1.7	0.84	1	01/04/20 22:55	12/11/19	
Endosulfan Sulfate	1.7 U	1.7	0.84	1	01/04/20 22:55	12/11/19	
Endrin	1.7 U	1.7	0.84	1	01/04/20 22:55	12/11/19	
Endrin Aldehyde	1.7 U	1.7	0.84	1	01/04/20 22:55	12/11/19	
Endrin Ketone	1.7 U	1.7	0.84	1	01/04/20 22:55	12/11/19	
Heptachlor	1.7 U	1.7	0.84	1	01/04/20 22:55	12/11/19	
Heptachlor Epoxide	1.7 U	1.7	0.84	1	01/04/20 22:55	12/11/19	
Methoxychlor	1.7 U	1.7	0.84	1	01/04/20 22:55	12/11/19	
Toxaphene	33 U	33	19	1	01/04/20 22:55	12/11/19	
alpha-BHC	1.7 U	1.7	0.84	1	01/04/20 22:55	12/11/19	
alpha-Chlordane	1.7 U	1.7	0.84	1	01/04/20 22:55	12/11/19	
beta-BHC	1.7 U	1.7	0.84	1	01/04/20 22:55	12/11/19	
delta-BHC	1.7 U	1.7	0.84	1	01/04/20 22:55	12/11/19	
gamma-BHC (Lindane)	1.7 U	1.7	0.84	1	01/04/20 22:55	12/11/19	
gamma-Chlordane	1.7 U	1.7	0.84	1	01/04/20 22:55	12/11/19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914443-01	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	66	10 - 145	01/04/20 22:55	
Tetrachloro-m-xylene	59	10 - 123	01/04/20 22:55	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914487-05	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	1.7 U	1.7	0.85	1	12/20/19 23:29	12/12/19	
4,4'-DDE	1.7 U	1.7	0.85	1	12/20/19 23:29	12/12/19	
4,4'-DDT	1.7 U	1.7	0.85	1	12/20/19 23:29	12/12/19	
Aldrin	1.7 U	1.7	0.85	1	12/20/19 23:29	12/12/19	
Dieldrin	1.7 U	1.7	0.85	1	12/20/19 23:29	12/12/19	
Endosulfan I	1.7 U	1.7	0.85	1	12/20/19 23:29	12/12/19	
Endosulfan II	1.7 U	1.7	0.85	1	12/20/19 23:29	12/12/19	
Endosulfan Sulfate	1.7 U	1.7	0.85	1	12/20/19 23:29	12/12/19	
Endrin	1.7 U	1.7	0.85	1	12/20/19 23:29	12/12/19	
Endrin Aldehyde	1.7 U	1.7	0.85	1	12/20/19 23:29	12/12/19	
Endrin Ketone	1.7 U	1.7	0.85	1	12/20/19 23:29	12/12/19	
Heptachlor	1.7 U	1.7	0.85	1	12/20/19 23:29	12/12/19	
Heptachlor Epoxide	1.7 U	1.7	0.85	1	12/20/19 23:29	12/12/19	
Methoxychlor	1.7 U	1.7	0.85	1	12/20/19 23:29	12/12/19	
Toxaphene	33 U	33	20	1	12/20/19 23:29	12/12/19	
alpha-BHC	1.7 U	1.7	0.85	1	12/20/19 23:29	12/12/19	
alpha-Chlordane	1.7 U	1.7	0.85	1	12/20/19 23:29	12/12/19	
beta-BHC	1.7 U	1.7	0.85	1	12/20/19 23:29	12/12/19	
delta-BHC	1.7 U	1.7	0.85	1	12/20/19 23:29	12/12/19	
gamma-BHC (Lindane)	1.7 U	1.7	0.85	1	12/20/19 23:29	12/12/19	
gamma-Chlordane	1.7 U	1.7	0.85	1	12/20/19 23:29	12/12/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	96	10 - 145	12/20/19 23:29	
Tetrachloro-m-xylene	72	10 - 123	12/20/19 23:29	

Client: Leader Professional Services, Inc. **Service Request:** R1911947
Project: Tonawanda Bisonite Paint **Date Analyzed:** NA
Sample Matrix: Soil

Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography

Sample Name: **Instrument ID:**
Lab Code: **File ID:**

Analysis Method: 8081B **Analysis Lot:**663140,664434,665578,665596

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Performance Evaluation	RQ1914526-03	I:\ACQUDATA\7890N.net\data\121119\ae7687.D\	12/12/19 02:23
Performance Evaluation	RQ2000082-01	I:\ACQUDATA\7890m\DATA\010320\az3117.D\	01/03/20 10:37
Performance Evaluation	RQ2000099-08	I:\ACQUDATA\7890m\DATA\010420\az3184.D\	01/04/20 20:41

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Analyzed:**	12/12/19 03:16
Sample Matrix:	Soil	**Date Extracted:**	12/11/19

Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography

Sample Name:	Lab Control Sample	**Instrument ID:**	R-GC-63
Lab Code:	RQ1914443-02	**File ID:**	I:\ACQUDATA\7890N.net\data\121119\ae7690.D\
Analysis Method:	8081B	**Analysis Lot:**	663140,664434,665578,665596
Prep Method:	EPA 3541	**Extraction Lot:**	350243

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ1914443-01	I:\ACQUDATA\7890N.net\data\121119\ae7689.D\	12/12/19 02:58
Duplicate Lab Control Sample	RQ1914443-03	I:\ACQUDATA\7890N.net\data\121119\ae7691.D\	12/12/19 03:33
Method Blank	RQ1914443-01	I:\ACQUDATA\7890m\DATA\010420\az3191.D\	01/04/20 22:55
Duplicate Lab Control Sample	RQ1914443-03	I:\ACQUDATA\7890m\DATA\010420\az3193.D\	01/04/20 23:33
SB8 1-2	R1911947-001	I:\ACQUDATA\7890m\DATA\010420\az3198.D\	01/05/20 01:09
SB8 6-8	R1911947-002	I:\ACQUDATA\7890m\DATA\010420\az3199.D\	01/05/20 01:28

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Analyzed:**	12/20/19 23:48
Sample Matrix:	Soil	**Date Extracted:**	12/12/19

Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography

Sample Name:	Lab Control Sample	**Instrument ID:**	R-GC-62
Lab Code:	RQ1914487-06	**File ID:**	I:\ACQUDATA\7890m\DATA\122019\az2811.D\
Analysis Method:	8081B	**Analysis Lot:**	663140,664434,665578,665596
Prep Method:	EPA 3541	**Extraction Lot:**	350334

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ1914487-05	I:\ACQUDATA\7890m\DATA\122019\az2810.D\	12/20/19 23:29
Duplicate Lab Control Sample	RQ1914487-07	I:\ACQUDATA\7890m\DATA\122019\az2812.D\	12/21/19 00:07
SB11 1-2	R1911947-003	I:\ACQUDATA\7890m\DATA\010320\az3120.D\	01/03/20 12:19
SB11 6-8	R1911947-004	I:\ACQUDATA\7890m\DATA\010320\az3121.D\	01/03/20 12:38
SB11 6-8MS	RQ1914487-01	I:\ACQUDATA\7890m\DATA\010320\az3122.D\	01/03/20 12:57
SB11 6-8DMS	RQ1914487-02	I:\ACQUDATA\7890m\DATA\010320\az3123.D\	01/03/20 13:17
SB11 6-8 Dup	R1911947-005	I:\ACQUDATA\7890m\DATA\010320\az3124.D\	01/03/20 13:36
SB9 2-4	R1911947-006	I:\ACQUDATA\7890m\DATA\010320\az3125.D\	01/03/20 13:55
SB9 11-13	R1911947-007	I:\ACQUDATA\7890m\DATA\010320\az3126.D\	01/03/20 14:14
SB10 2-4	R1911947-008	I:\ACQUDATA\7890m\DATA\010320\az3127.D\	01/03/20 14:33
SB10 12-14	R1911947-009	I:\ACQUDATA\7890m\DATA\010320\az3128.D\	01/03/20 14:52

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

Service Request: R1911947
Date Analyzed: 01/04/20

Duplicate Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography

Units:ug/Kg
Basis: Dry

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ1914443-02			RQ1914443-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
4,4'-DDD	8081B	5.91	6.87	86	5.69	6.48	88	33-149	4	30
4,4'-DDE	8081B	5.37	6.87	78	5.38	6.48	83	38-147	<1	30
4,4'-DDT	8081B	5.46	6.87	79	5.21	6.48	80	37-146	5	30
Aldrin	8081B	4.76	6.87	69	4.89	6.48	75	25-146	3	30
Dieldrin	8081B	5.07	6.87	74	5.03	6.48	78	40-140	<1	30
Endosulfan I	8081B	4.89	6.87	71	4.87	6.48	75	35-116	<1	30
Endosulfan II	8081B	5.09	6.87	74	4.97	6.48	77	39-122	3	30
Endosulfan Sulfate	8081B	4.94	6.87	72	4.90	6.48	76	31-132	<1	30
Endrin	8081B	5.34	6.87	78	5.27	6.48	81	40-144	1	30
Endrin Aldehyde	8081B	1.8 U	6.87	0 *	0.84 U	6.48	0 *	10-109	NC	30
Endrin Ketone	8081B	5.08	6.87	74	5.07	6.48	78	38-122	<1	30
Heptachlor	8081B	4.89	6.87	71	4.96	6.48	76	34-142	1	30
Heptachlor Epoxide	8081B	4.96	6.87	72	4.97	6.48	77	37-113	<1	30
Methoxychlor	8081B	5.33	6.87	78	5.29	6.48	82	41-152	<1	30
alpha-BHC	8081B	4.99	6.87	73	5.06	6.48	78	28-145	2	30
alpha-Chlordane	8081B	5.04	6.87	73	5.05	6.48	78	37-114	<1	30
beta-BHC	8081B	4.91	6.87	72	4.95	6.48	76	38-144	<1	30
delta-BHC	8081B	5.20	6.87	76	5.23	6.48	81	30-153	<1	30
gamma-BHC (Lindane)	8081B	4.94	6.87	72	5.04	6.48	78	32-145	2	30
gamma-Chlordane	8081B	5.06	6.87	74	5.13	6.48	79	34-123	1	30

Client: Leader Professional Services, Inc. **Service Request:** R1911947
Project: Tonawanda Bisonite Paint **Date Analyzed:** 12/20/19
Sample Matrix: Soil

Duplicate Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography

Units:ug/Kg
Basis: Dry

			Lab Control Sample			Duplicate Lab Control Sample				
			RQ1914487-06			RQ1914487-07				
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
4,4'-DDD	8081B	4.93	6.65	74	6.58	6.66	99	33-149	29	30
4,4'-DDE	8081B	4.46	6.65	67	5.99	6.66	90	38-147	29	30
4,4'-DDT	8081B	4.75	6.65	71	6.03	6.66	91	37-146	24	30
Aldrin	8081B	3.91	6.65	59	5.17	6.66	78	25-146	28	30
Dieldrin	8081B	4.29	6.65	65	5.76	6.66	87	40-140	29	30
Endosulfan I	8081B	4.00	6.65	60	5.45	6.66	82	35-116	31*	30
Endosulfan II	8081B	4.48	6.65	67	5.85	6.66	88	39-122	26	30
Endosulfan Sulfate	8081B	4.41	6.65	66	5.72	6.66	86	31-132	26	30
Endrin	8081B	4.87	6.65	73	6.55	6.66	98	40-144	29	30
Endrin Aldehyde	8081B	0.880 J	6.65	13	1.32 J	6.66	20	10-109	40*	30
Endrin Ketone	8081B	4.35	6.65	65	5.71	6.66	86	38-122	27	30
Heptachlor	8081B	4.02	6.65	60	5.31	6.66	80	34-142	28	30
Heptachlor Epoxide	8081B	4.15	6.65	62	5.61	6.66	84	37-113	30	30
Methoxychlor	8081B	5.54	6.65	83	6.88	6.66	103	41-152	22	30
alpha-BHC	8081B	4.03	6.65	61	5.33	6.66	80	28-145	28	30
alpha-Chlordane	8081B	4.23	6.65	64	5.72	6.66	86	37-114	30	30
beta-BHC	8081B	4.29	6.65	65	5.60	6.66	84	38-144	26	30
delta-BHC	8081B	4.35	6.65	65	5.92	6.66	89	30-153	31*	30
gamma-BHC (Lindane)	8081B	4.05	6.65	61	5.41	6.66	81	32-145	29	30
gamma-Chlordane	8081B	4.25	6.65	64	5.69	6.66	86	34-123	29	30

Confirmation Results

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
SRM Matrix: Soil

Service Request: R1911947
Date Collected: 12/05/19 09:15
Date Received: 12/5/19

Sample Name: SB8 1-2
Lab Code: R1911947-001

Units: ug/Kg
Basis: Dry
Percent Solids: 84.1

Organochlorine Pesticides by Gas Chromatography

Analytical Method: 8081B
Prep Method: EPA 3541

LOQ	LOQ	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDE		1.1	1.5	1.7	12	J	1	01/05/20 01:09
gamma-Chlordane		1.1	1.3	1.5	14	J	1	01/05/20 01:09

Confirmation Results

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
SRM Matrix: Soil

Service Request: R1911947
Date Collected: 12/05/19
Date Received: 12/5/19

Sample Name: SB11 1-2
Lab Code: R1911947-003

Units: ug/Kg
Basis: Dry
Percent Solids: 79.5

Organochlorine Pesticides by Gas Chromatography

Analytical Method: 8081B
Prep Method: EPA 3541

LOQ	LOQ	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDE		5.4	7.4	8.7	16	J	5	01/03/20 12:19
gamma-Chlordane		5.4	5.9	6.3	7	J	5	01/03/20 12:19

Confirmation Results

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
SRM Matrix: Soil

Service Request: R1911947
Date Collected: NA
Date Received:

Sample Name: Lab Control Sample
Lab Code: RQ1914443-02

Units: ug/Kg
Basis: Dry

Organochlorine Pesticides by Gas Chromatography

Analytical Method: 8081B
Prep Method: EPA 3541

LOQ	LOQ	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDD		0.87	5.91	6.57	11		1	01/04/20 23:14
4,4'-DDE		0.87	5.37	5.80	8		1	01/04/20 23:14
4,4'-DDT		0.87	5.46	6.18	12		1	01/04/20 23:14
Aldrin		0.87	4.76	5.13	7		1	01/04/20 23:14
Dieldrin		0.87	5.07	5.43	7		1	01/04/20 23:14
Endosulfan I		0.87	4.89	5.29	8		1	01/04/20 23:14
Endosulfan II		0.87	5.09	5.83	14		1	01/04/20 23:14
Endosulfan Sulfate		0.87	4.94	5.41	9		1	01/04/20 23:14
Endrin		0.87	5.34	5.81	8		1	01/04/20 23:14
Endrin Ketone		0.87	5.08	5.79	13		1	01/04/20 23:14
Heptachlor		0.87	4.89	5.31	8		1	01/04/20 23:14
Heptachlor Epoxide		0.87	4.96	5.38	8		1	01/04/20 23:14
Methoxychlor		0.87	5.33	6.83	25		1	01/04/20 23:14
alpha-BHC		0.87	4.99	5.29	6		1	01/04/20 23:14
alpha-Chlordane		0.87	5.04	5.29	5		1	01/04/20 23:14
beta-BHC		0.87	4.91	5.53	12		1	01/04/20 23:14
delta-BHC		0.87	5.20	5.65	8		1	01/04/20 23:14
gamma-BHC (Lindane)		0.87	4.94	5.29	7		1	01/04/20 23:14
gamma-Chlordane		0.87	5.06	5.37	6		1	01/04/20 23:14
4,4'-DDD		0.87	4.02	5.08	23		1	12/12/19 03:16
4,4'-DDE		0.87	4.02	4.29	6		1	12/12/19 03:16
4,4'-DDT		0.87	4.02	4.36	8		1	12/12/19 03:16
Aldrin		0.87	3.62	4.09	12		1	12/12/19 03:16
Dieldrin		0.87	4.08	4.31	5		1	12/12/19 03:16
Endosulfan I		0.87	3.95	4.26	8		1	12/12/19 03:16
Endosulfan II		0.87	3.97	4.27	7		1	12/12/19 03:16
Endosulfan Sulfate		0.87	4.05	4.11	1		1	12/12/19 03:16
Endrin		0.87	4.28	4.60	7		1	12/12/19 03:16

Endrin Ketone	0.87	4.18	4.35	4	1	12/12/19 03:16
Heptachlor	0.87	3.81	4.21	10	1	12/12/19 03:16
Heptachlor Epoxide	0.87	4.02	4.35	8	1	12/12/19 03:16
Methoxychlor	0.87	4.23	4.29	1	1	12/12/19 03:16
alpha-BHC	0.87	3.71	4.24	13	1	12/12/19 03:16
alpha-Chlordane	0.87	3.99	4.30	7	1	12/12/19 03:16
beta-BHC	0.87	4.02	4.48	11	1	12/12/19 03:16
delta-BHC	0.87	3.91	4.36	11	1	12/12/19 03:16
gamma-BHC (Lindane)	0.87	3.79	4.20	10	1	12/12/19 03:16
gamma-Chlordane	0.87	3.89	4.26	9	1	12/12/19 03:16

Confirmation Results

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
SRM Matrix: Soil

Service Request: R1911947
Date Collected: NA
Date Received:

Sample Name: Duplicate Lab Control Sample
Lab Code: RQ1914443-03

Units: ug/Kg
Basis: Dry

Organochlorine Pesticides by Gas Chromatography

Analytical Method: 8081B
Prep Method: EPA 3541

LOQ	LOQ	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDD		0.84	5.69	6.52	14		1	01/04/20 23:33
4,4'-DDE		0.84	5.38	5.87	9		1	01/04/20 23:33
4,4'-DDT		0.84	5.21	5.89	12		1	01/04/20 23:33
Aldrin		0.84	4.89	5.26	7		1	01/04/20 23:33
Dieldrin		0.84	5.03	5.41	7		1	01/04/20 23:33
Endosulfan I		0.84	4.87	5.42	11		1	01/04/20 23:33
Endosulfan II		0.84	4.97	5.72	14		1	01/04/20 23:33
Endosulfan Sulfate		0.84	4.90	5.39	10		1	01/04/20 23:33
Endrin		0.84	5.27	5.75	9		1	01/04/20 23:33
Endrin Ketone		0.84	5.07	5.72	12		1	01/04/20 23:33
Heptachlor		0.84	4.96	5.38	8		1	01/04/20 23:33
Heptachlor Epoxide		0.84	4.97	5.39	8		1	01/04/20 23:33
Methoxychlor		0.84	5.29	6.78	25		1	01/04/20 23:33
alpha-BHC		0.84	5.06	5.32	5		1	01/04/20 23:33
alpha-Chlordane		0.84	5.05	5.33	5		1	01/04/20 23:33
beta-BHC		0.84	4.95	5.49	10		1	01/04/20 23:33
delta-BHC		0.84	5.23	5.66	8		1	01/04/20 23:33
gamma-BHC (Lindane)		0.84	5.04	5.39	7		1	01/04/20 23:33
gamma-Chlordane		0.84	5.13	5.43	6		1	01/04/20 23:33
4,4'-DDD		0.84	4.50	5.44	19		1	12/12/19 03:33
4,4'-DDE		0.84	4.63	5.05	9		1	12/12/19 03:33
4,4'-DDT		0.84	4.37	5.06	15		1	12/12/19 03:33
Aldrin		0.84	4.24	4.76	12		1	12/12/19 03:33
Dieldrin		0.84	4.52	4.87	7		1	12/12/19 03:33
Endosulfan I		0.84	4.44	4.83	8		1	12/12/19 03:33
Endosulfan II		0.84	4.36	4.75	9		1	12/12/19 03:33
Endosulfan Sulfate		0.84	4.40	4.57	4		1	12/12/19 03:33
Endrin		0.84	4.78	5.17	8		1	12/12/19 03:33

Endrin Aldehyde	0.84	0.972	1.12	14	J	1	12/12/19 03:33
Endrin Ketone	0.84	4.41	4.66	6		1	12/12/19 03:33
Heptachlor	0.84	4.40	4.85	10		1	12/12/19 03:33
Heptachlor Epoxide	0.84	4.57	4.94	8		1	12/12/19 03:33
Methoxychlor	0.84	4.61	4.73	3		1	12/12/19 03:33
alpha-BHC	0.84	4.30	4.84	12		1	12/12/19 03:33
alpha-Chlordane	0.84	4.52	4.89	8		1	12/12/19 03:33
beta-BHC	0.84	4.58	5.02	9		1	12/12/19 03:33
delta-BHC	0.84	4.48	4.96	10		1	12/12/19 03:33
gamma-BHC (Lindane)	0.84	4.38	4.83	10		1	12/12/19 03:33
gamma-Chlordane	0.84	4.41	4.84	9		1	12/12/19 03:33

ALS Group USA, Corp.
dba ALS Environmental

Confirmation Results

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
SRM Matrix: Soil

Service Request: R1911947
Date Collected: 12/05/19
Date Received: 12/5/19

Sample Name: SB11 6-8
Lab Code: RQ1914487-01

Units: ug/Kg
Basis: Dry
Percent Solids: 88.8

Organochlorine Pesticides by Gas Chromatography

Analytical Method: 8081B
Prep Method: EPA 3541

LOQ	LOQ	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDD		4.9	8.92	10.4	15	J	5	01/03/20 12:57
4,4'-DDE		4.9	7.26	8.36	14	J	5	01/03/20 12:57
4,4'-DDT		4.9	8.65	10.4	18	J	5	01/03/20 12:57
Aldrin		4.9	5.26	5.67	8	J	5	01/03/20 12:57
Dieldrin		4.9	10.9	12.7	15		5	01/03/20 12:57
Endosulfan I		4.9	6.84	7.97	15	J	5	01/03/20 12:57
Endosulfan II		4.9	7.83	9.89	23	J	5	01/03/20 12:57
Endosulfan Sulfate		4.9	8.13	8.49	4	J	5	01/03/20 12:57
Endrin		4.9	8.75	10.1	14	J	5	01/03/20 12:57
Endrin Ketone		4.9	7.66	10.3	29	J	5	01/03/20 12:57
Heptachlor		4.9	5.29	5.62	6	J	5	01/03/20 12:57
Heptachlor Epoxide		4.9	7.13	8.12	13	J	5	01/03/20 12:57
Methoxychlor		4.9	13.2	18.3	32		5	01/03/20 12:57
alpha-Chlordane		4.9	7.24	8.19	12	J	5	01/03/20 12:57
beta-BHC		4.9	8.14	9.97	20	J	5	01/03/20 12:57
delta-BHC		4.9	7.40	8.56	15	J	5	01/03/20 12:57
gamma-BHC (Lindane)		4.9	5.55	5.72	3	J	5	01/03/20 12:57
gamma-Chlordane		4.9	7.67	8.81	14	J	5	01/03/20 12:57

Confirmation Results

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
SRM Matrix: Soil

Service Request: R1911947
Date Collected: 12/05/19
Date Received: 12/5/19

Sample Name: SB11 6-8
Lab Code: RQ1914487-02

Units: ug/Kg
Basis: Dry
Percent Solids: 88.8

Organochlorine Pesticides by Gas Chromatography

Analytical Method: 8081B
Prep Method: EPA 3541

LOQ	LOQ	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDD		4.8	9.75	11.1	13		5	01/03/20 13:17
4,4'-DDE		4.8	8.27	9.26	11	J	5	01/03/20 13:17
4,4'-DDT		4.8	9.83	11.7	17		5	01/03/20 13:17
Aldrin		4.8	6.64	7.39	11	J	5	01/03/20 13:17
Dieldrin		4.8	8.45	9.28	9	J	5	01/03/20 13:17
Endosulfan I		4.8	7.83	9.18	16	J	5	01/03/20 13:17
Endosulfan II		4.8	8.57	10.5	20	J	5	01/03/20 13:17
Endosulfan Sulfate		4.8	8.96	9.80	9	J	5	01/03/20 13:17
Endrin		4.8	9.83	11.3	14		5	01/03/20 13:17
Endrin Ketone		4.8	9.57	11.7	20		5	01/03/20 13:17
Heptachlor		4.8	6.86	7.48	9	J	5	01/03/20 13:17
Heptachlor Epoxide		4.8	8.17	9.35	13	J	5	01/03/20 13:17
Methoxychlor		4.8	15.3	18.6	19		5	01/03/20 13:17
alpha-BHC		4.8	5.79	6.26	8	J	5	01/03/20 13:17
alpha-Chlordane		4.8	8.28	9.40	13	J	5	01/03/20 13:17
beta-BHC		4.8	9.14	11.0	18	J	5	01/03/20 13:17
delta-BHC		4.8	8.61	10.0	15	J	5	01/03/20 13:17
gamma-BHC (Lindane)		4.8	6.89	7.32	6	J	5	01/03/20 13:17
gamma-Chlordane		4.8	8.40	9.79	15	J	5	01/03/20 13:17

Confirmation Results

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
SRM Matrix: Soil

Service Request: R1911947
Date Collected: NA
Date Received:

Sample Name: Lab Control Sample
Lab Code: RQ1914487-06

Units: ug/Kg
Basis: Dry

Organochlorine Pesticides by Gas Chromatography

Analytical Method: 8081B
Prep Method: EPA 3541

LOQ	LOQ	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDD		0.84	4.93	6.66	30		1	12/20/19 23:48
4,4'-DDE		0.84	4.46	5.57	22		1	12/20/19 23:48
4,4'-DDT		0.84	4.75	6.07	24		1	12/20/19 23:48
Aldrin		0.84	3.91	4.91	23		1	12/20/19 23:48
Dieldrin		0.84	4.29	5.58	26		1	12/20/19 23:48
Endosulfan I		0.84	4.00	5.08	24		1	12/20/19 23:48
Endosulfan II		0.84	4.48	5.91	28		1	12/20/19 23:48
Endosulfan Sulfate		0.84	4.41	5.30	18		1	12/20/19 23:48
Endrin		0.84	4.87	6.37	27		1	12/20/19 23:48
Endrin Aldehyde		0.84	0.880	0.933	6	J	1	12/20/19 23:48
Endrin Ketone		0.84	4.35	5.70	27		1	12/20/19 23:48
Heptachlor		0.84	4.02	5.24	26		1	12/20/19 23:48
Heptachlor Epoxide		0.84	4.15	5.33	25		1	12/20/19 23:48
Methoxychlor		0.84	5.54	6.98	23		1	12/20/19 23:48
alpha-BHC		0.84	4.03	5.04	22		1	12/20/19 23:48
alpha-Chlordane		0.84	4.23	5.22	21		1	12/20/19 23:48
beta-BHC		0.84	4.29	5.08	17		1	12/20/19 23:48
delta-BHC		0.84	4.35	5.48	23		1	12/20/19 23:48
gamma-BHC (Lindane)		0.84	4.05	5.02	21		1	12/20/19 23:48
gamma-Chlordane		0.84	4.25	5.25	21		1	12/20/19 23:48

Confirmation Results

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
SRM Matrix: Soil

Service Request: R1911947
Date Collected: NA
Date Received:

Sample Name: Duplicate Lab Control Sample
Lab Code: RQ1914487-07

Units: ug/Kg
Basis: Dry

Organochlorine Pesticides by Gas Chromatography

Analytical Method: 8081B
Prep Method: EPA 3541

LOQ	LOQ	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDD		0.84	6.58	8.88	30		1	12/21/19 00:07
4,4'-DDE		0.84	5.99	7.58	23		1	12/21/19 00:07
4,4'-DDT		0.84	6.03	7.81	26		1	12/21/19 00:07
Aldrin		0.84	5.17	6.57	24		1	12/21/19 00:07
Dieldrin		0.84	5.76	7.39	25		1	12/21/19 00:07
Endosulfan I		0.84	5.45	7.01	25		1	12/21/19 00:07
Endosulfan II		0.84	5.85	7.77	28		1	12/21/19 00:07
Endosulfan Sulfate		0.84	5.72	7.11	22		1	12/21/19 00:07
Endrin		0.84	6.55	8.58	27		1	12/21/19 00:07
Endrin Aldehyde		0.84	1.32	1.45	9	J	1	12/21/19 00:07
Endrin Ketone		0.84	5.71	7.58	28		1	12/21/19 00:07
Heptachlor		0.84	5.31	7.11	29		1	12/21/19 00:07
Heptachlor Epoxide		0.84	5.61	7.27	26		1	12/21/19 00:07
Methoxychlor		0.84	6.88	9.38	31		1	12/21/19 00:07
alpha-BHC		0.84	5.33	6.80	24		1	12/21/19 00:07
alpha-Chlordane		0.84	5.72	7.07	21		1	12/21/19 00:07
beta-BHC		0.84	5.60	7.04	23		1	12/21/19 00:07
delta-BHC		0.84	5.92	7.59	25		1	12/21/19 00:07
gamma-BHC (Lindane)		0.84	5.41	6.82	23		1	12/21/19 00:07
gamma-Chlordane		0.84	5.69	7.12	22		1	12/21/19 00:07

Confirmation Results

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
SRM Matrix:	Soil	**Date Received:**	
Sample Name:	Performance Evaluation		
Lab Code:	RQ1914526-03	**Units:**	ug/Kg
		Basis:	Dry

Organochlorine Pesticides by Gas Chromatography

Prep Method: 8081B

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDT	0.84	34	27	23		1	12/12/19 02:23
Endrin	0.84	15	17	12		1	12/12/19 02:23
Methoxychlor	0.84	68	78	14	E	1	12/12/19 02:23
alpha-BHC	0.84	2.8	3.3	16		1	12/12/19 02:23
beta-BHC	0.84	2.9	3.3	13		1	12/12/19 02:23
gamma-BHC (Lindane)	0.84	2.9	3.3	13		1	12/12/19 02:23

Confirmation Results

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
SRM Matrix: Soil

Service Request: R1911947
Date Collected: NA
Date Received:

Sample Name: Performance Evaluation
Lab Code: RQ2000082-01

Units: ug/Kg
Basis: Dry

Organochlorine Pesticides by Gas Chromatography

Prep Method: 8081B

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDD	0.84	1.6	1.6	<1	J	1	01/03/20 10:37
4,4'-DDT	0.84	36	44	20		1	01/03/20 10:37
Endrin	0.84	18	23	24		1	01/03/20 10:37
Methoxychlor	0.84	76	110	37	E	1	01/03/20 10:37
alpha-BHC	0.84	4.0	4.8	18		1	01/03/20 10:37
beta-BHC	0.84	4.1	4.8	16		1	01/03/20 10:37
gamma-BHC (Lindane)	0.84	4.0	4.8	18		1	01/03/20 10:37

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Confirmation Results

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
SRM Matrix: Soil

Service Request: R1911947
Date Collected: NA
Date Received:

Sample Name: Performance Evaluation
Lab Code: RQ2000099-08

Units: ug/Kg
Basis: Dry

Organochlorine Pesticides by Gas Chromatography

Prep Method: 8081B

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDT	0.84	43	45	5		1	01/04/20 20:41
Endrin	0.84	20	23	14		1	01/04/20 20:41
Methoxychlor	0.84	99	130	27	E	1	01/04/20 20:41
alpha-BHC	0.84	4.6	4.9	6		1	01/04/20 20:41
beta-BHC	0.84	4.6	4.7	2		1	01/04/20 20:41
gamma-BHC (Lindane)	0.84	4.6	4.8	4		1	01/04/20 20:41

Client: Leader Professional Services, Inc. **Service Request:** R1911947
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY
Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Extraction Method: EPA 3541

Sample Name	Lab Code	Decachlorobiphenyl 22-128	Tetrachloro-m-xylene 14-119
SB8 1-2	R1911947-001	65	58
SB8 6-8	R1911947-002	56	30
SB11 1-2	R1911947-003	99	92
SB11 6-8	R1911947-004	90	40
SB11 6-8 Dup	R1911947-005	91	71
SB9 2-4	R1911947-006	83	59
SB9 11-13	R1911947-007	76	90
SB10 2-4	R1911947-008	72	53
SB10 12-14	R1911947-009	79	33
Method Blank	RQ1914443-01	64	59
Method Blank	RQ1914487-05	89	88
Lab Control Sample	RQ1914443-04	82	82
Duplicate Lab Control Sample	RQ1914443-05	87	87
Lab Control Sample	RQ1914487-08	83	91
Duplicate Lab Control Sample	RQ1914487-09	78	89
SB11 6-8 MS	RQ1914487-03	91	59
SB11 6-8 DMS	RQ1914487-04	87	39

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19
		Date Analyzed:	12/16/19
		Date Extracted:	12/12/19

Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs) by GC

Sample Name:	SB11 6-8	**Units:**	ug/Kg
Lab Code:	R1911947-004	**Basis:**	Dry
Analysis Method:	8082A		
Prep Method:	EPA 3541		

		Matrix Spike RQ1914487-03			Duplicate Matrix Spike RQ1914487-04					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	38 U	148	189	78	104	187	55	26-137	35*	30
Aroclor 1260	38 U	170	189	90	165	187	88	30-156	3	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Analyzed:**	12/12/19 18:59
Sample Matrix:	Soil	**Date Extracted:**	12/11/19

Method Blank Summary
Polychlorinated Biphenyls (PCBs) by GC

Sample Name:	Method Blank	**Instrument ID:**	R-GC-58
Lab Code:	RQ1914443-01	**File ID:**	I:\ACQUDATA\6890G\Data\121219\BJ780.D\
Analysis Method:	8082A	**Analysis Lot:**	663485,663700,663980
Prep Method:	EPA 3541	**Extraction Lot:**	350243

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1914443-04	I:\ACQUDATA\6890G\Data\121219\BJ781.D\	12/12/19 19:20
Duplicate Lab Control Sample	RQ1914443-05	I:\ACQUDATA\6890G\Data\121219\BJ782.D\	12/12/19 19:40
SB8 1-2	R1911947-001	I:\ACQUDATA\6890G\Data\121219\BJ791.D\	12/12/19 22:43
SB8 6-8	R1911947-002	I:\ACQUDATA\6890G\Data\121219\BJ792.D\	12/12/19 23:03

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QA/QC Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Analyzed:**	12/16/19 11:27
Sample Matrix:	Soil	**Date Extracted:**	12/12/19

Method Blank Summary
Polychlorinated Biphenyls (PCBs) by GC

Sample Name:	Method Blank	**Instrument ID:**	R-GC-58
Lab Code:	RQ1914487-05	**File ID:**	I:\ACQUDATA\6890G\Data\121619\BJ796.D\
Analysis Method:	8082A	**Analysis Lot:**	663485,663700,663980
Prep Method:	EPA 3541	**Extraction Lot:**	350334

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1914487-08	I:\ACQUDATA\6890G\Data\121619\BJ797.D\	12/16/19 11:48
Duplicate Lab Control Sample	RQ1914487-09	I:\ACQUDATA\6890G\Data\121619\BJ798.D\	12/16/19 12:08
SB11 6-8	R1911947-004	I:\ACQUDATA\6890G\Data\121619\BJ800.D\	12/16/19 12:49
SB11 6-8MS	RQ1914487-03	I:\ACQUDATA\6890G\Data\121619\BJ801.D\	12/16/19 13:09
SB11 6-8DMS	RQ1914487-04	I:\ACQUDATA\6890G\Data\121619\BJ802.D\	12/16/19 13:30
SB11 6-8 Dup	R1911947-005	I:\ACQUDATA\6890G\Data\121619\BJ803.D\	12/16/19 13:50
SB9 2-4	R1911947-006	I:\ACQUDATA\6890G\Data\121619\BJ804.D\	12/16/19 14:10
SB9 11-13	R1911947-007	I:\ACQUDATA\6890G\Data\121619\BJ805.D\	12/16/19 14:31
SB10 2-4	R1911947-008	I:\ACQUDATA\6890G\Data\121619\BJ807.D\	12/16/19 15:12
SB10 12-14	R1911947-009	I:\ACQUDATA\6890G\Data\121619\BJ808.D\	12/16/19 15:32
SB11 1-2	R1911947-003	I:\ACQUDATA\6890G\Data\121819\BJ899.D\	12/18/19 16:41

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914443-01	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	33 U	33	17	1	12/12/19 18:59	12/11/19	
Aroclor 1221	66 U	66	33	1	12/12/19 18:59	12/11/19	
Aroclor 1232	33 U	33	20	1	12/12/19 18:59	12/11/19	
Aroclor 1242	33 U	33	17	1	12/12/19 18:59	12/11/19	
Aroclor 1248	33 U	33	26	1	12/12/19 18:59	12/11/19	
Aroclor 1254	33 U	33	19	1	12/12/19 18:59	12/11/19	
Aroclor 1260	33 U	33	17	1	12/12/19 18:59	12/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	64	22 - 128	12/12/19 18:59	
Tetrachloro-m-xylene	59	14 - 119	12/12/19 18:59	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914487-05	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	33 U	33	18	1	12/16/19 11:27	12/12/19	
Aroclor 1221	67 U	67	34	1	12/16/19 11:27	12/12/19	
Aroclor 1232	33 U	33	20	1	12/16/19 11:27	12/12/19	
Aroclor 1242	33 U	33	18	1	12/16/19 11:27	12/12/19	
Aroclor 1248	33 U	33	26	1	12/16/19 11:27	12/12/19	
Aroclor 1254	33 U	33	19	1	12/16/19 11:27	12/12/19	
Aroclor 1260	33 U	33	18	1	12/16/19 11:27	12/12/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	89	22 - 128	12/16/19 11:27	
Tetrachloro-m-xylene	88	14 - 119	12/16/19 11:27	

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QA/QC Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Analyzed:**	12/12/19 19:20
Sample Matrix:	Soil	**Date Extracted:**	12/11/19

Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs) by GC

Sample Name:	Lab Control Sample	**Instrument ID:**	R-GC-58
Lab Code:	RQ1914443-04	**File ID:**	I:\ACQUDATA\6890G\Data\121219\BJ781.D\
Analysis Method:	8082A	**Analysis Lot:**	663485,663700,663980
Prep Method:	EPA 3541	**Extraction Lot:**	350243

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ1914443-01	I:\ACQUDATA\6890G\Data\121219\BJ780.D\	12/12/19 18:59
Duplicate Lab Control Sample	RQ1914443-05	I:\ACQUDATA\6890G\Data\121219\BJ782.D\	12/12/19 19:40
SB8 1-2	R1911947-001	I:\ACQUDATA\6890G\Data\121219\BJ791.D\	12/12/19 22:43
SB8 6-8	R1911947-002	I:\ACQUDATA\6890G\Data\121219\BJ792.D\	12/12/19 23:03

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QA/QC Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Analyzed:**	12/16/19 11:48
Sample Matrix:	Soil	**Date Extracted:**	12/12/19

Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs) by GC

Sample Name:	Lab Control Sample	**Instrument ID:**	R-GC-58
Lab Code:	RQ1914487-08	**File ID:**	I:\ACQUDATA\6890G\Data\121619\BJ797.D\
Analysis Method:	8082A	**Analysis Lot:**	663485,663700,663980
Prep Method:	EPA 3541	**Extraction Lot:**	350334

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ1914487-05	I:\ACQUDATA\6890G\Data\121619\BJ796.D\	12/16/19 11:27
Duplicate Lab Control Sample	RQ1914487-09	I:\ACQUDATA\6890G\Data\121619\BJ798.D\	12/16/19 12:08
SB11 6-8	R1911947-004	I:\ACQUDATA\6890G\Data\121619\BJ800.D\	12/16/19 12:49
SB11 6-8MS	RQ1914487-03	I:\ACQUDATA\6890G\Data\121619\BJ801.D\	12/16/19 13:09
SB11 6-8DMS	RQ1914487-04	I:\ACQUDATA\6890G\Data\121619\BJ802.D\	12/16/19 13:30
SB11 6-8 Dup	R1911947-005	I:\ACQUDATA\6890G\Data\121619\BJ803.D\	12/16/19 13:50
SB9 2-4	R1911947-006	I:\ACQUDATA\6890G\Data\121619\BJ804.D\	12/16/19 14:10
SB9 11-13	R1911947-007	I:\ACQUDATA\6890G\Data\121619\BJ805.D\	12/16/19 14:31
SB10 2-4	R1911947-008	I:\ACQUDATA\6890G\Data\121619\BJ807.D\	12/16/19 15:12
SB10 12-14	R1911947-009	I:\ACQUDATA\6890G\Data\121619\BJ808.D\	12/16/19 15:32
SB11 1-2	R1911947-003	I:\ACQUDATA\6890G\Data\121819\BJ899.D\	12/18/19 16:41

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QA/QC Report

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

Service Request: R1911947
Date Analyzed: 12/12/19

Duplicate Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs) by GC

Units:ug/Kg
Basis: Dry

			Lab Control Sample RQ1914443-04			Duplicate Lab Control Sample RQ1914443-05				
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	8082A	141	162	87	145	163	89	41-127	3	30
Aroclor 1260	8082A	134	162	82	140	163	86	49-135	5	30

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

Service Request: R1911947
Date Analyzed: 12/16/19

Duplicate Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs) by GC

Units:ug/Kg
Basis: Dry

			Lab Control Sample			Duplicate Lab Control Sample				
			RQ1914487-08			RQ1914487-09				
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	8082A	161	167	96	152	167	91	41-127	5	30
Aroclor 1260	8082A	146	167	88	141	167	84	49-135	4	30

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Confirmation Results

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
SRM Matrix: Soil

Service Request: R1911947
Date Collected: 12/05/19 09:15
Date Received: 12/5/19

Sample Name: SB8 1-2
Lab Code: R1911947-001

Units: ug/Kg
Basis: Dry
Percent Solids: 84.1

Polychlorinated Biphenyls (PCBs) by GC

Analytical Method: 8082A
Prep Method: EPA 3541

LOQ	LOQ	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Aroclor 1254		23	39	48	21	J	1	12/12/19 22:43

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Confirmation Results

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
SRM Matrix:	Soil	**Date Received:**	12/5/19
Sample Name:	SB11 1-2		
Lab Code:	R1911947-003	**Units:**	ug/Kg
		Basis:	Dry
		Percent Solids:	79.5

Polychlorinated Biphenyls (PCBs) by GC

Analytical Method: 8082A
Prep Method: EPA 3541

LOQ	LOQ	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Aroclor 1248		33	150	210	33		1	12/18/19 16:41
Aroclor 1254		23	110	150	31		1	12/18/19 16:41
Aroclor 1260		22	39	71	58	J	1	12/18/19 16:41

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Confirmation Results

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
SRM Matrix: Soil

Service Request: R1911947
Date Collected: NA
Date Received:

Sample Name: Lab Control Sample
Lab Code: RQ1914443-04

Units: ug/Kg
Basis: Dry

Polychlorinated Biphenyls (PCBs) by GC

Analytical Method: 8082A
Prep Method: EPA 3541

LOQ	LOQ	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Aroclor 1016		17	141	152	8		1	12/12/19 19:20
Aroclor 1260		17	134	159	17		1	12/12/19 19:20

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Confirmation Results

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
SRM Matrix: Soil

Service Request: R1911947
Date Collected: NA
Date Received:

Sample Name: Duplicate Lab Control Sample
Lab Code: RQ1914443-05

Units: ug/Kg
Basis: Dry

Polychlorinated Biphenyls (PCBs) by GC

Analytical Method: 8082A
Prep Method: EPA 3541

LOQ	LOQ	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Aroclor 1016		17	145	165	13		1	12/12/19 19:40
Aroclor 1260		17	140	169	19		1	12/12/19 19:40

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Confirmation Results

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
SRM Matrix:	Soil	**Date Received:**	12/5/19
Sample Name:	SB11 6-8		
Lab Code:	RQ1914487-03	**Units:**	ug/Kg
		Basis:	Dry
		Percent Solids:	88.8

Polychlorinated Biphenyls (PCBs) by GC

Analytical Method: 8082A
Prep Method: EPA 3541

LOQ	LOQ	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Aroclor 1016		20	148	149	<1		1	12/16/19 13:09
Aroclor 1260		20	170	194	13		1	12/16/19 13:09

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Confirmation Results

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
SRM Matrix: Soil

Service Request: R1911947
Date Collected: 12/05/19
Date Received: 12/5/19

Sample Name: SB11 6-8
Lab Code: RQ1914487-04

Units: ug/Kg
Basis: Dry
Percent Solids: 88.8

Polychlorinated Biphenyls (PCBs) by GC

Analytical Method: 8082A
Prep Method: EPA 3541

LOQ	LOQ	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Aroclor 1016		20	104	113	8		1	12/16/19 13:30
Aroclor 1260		20	165	189	14		1	12/16/19 13:30

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Confirmation Results

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
SRM Matrix:	Soil	**Date Received:**	
Sample Name:	Lab Control Sample		
Lab Code:	RQ1914487-08	**Units:**	ug/Kg
		Basis:	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analytical Method: 8082A
Prep Method: EPA 3541

LOQ	LOQ	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Aroclor 1016		18	161	178	10		1	12/16/19 11:48
Aroclor 1260		18	146	170	15		1	12/16/19 11:48

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Confirmation Results

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
SRM Matrix: Soil

Service Request: R1911947
Date Collected: NA
Date Received:

Sample Name: Duplicate Lab Control Sample
Lab Code: RQ1914487-09

Units: ug/Kg
Basis: Dry

Polychlorinated Biphenyls (PCBs) by GC

Analytical Method: 8082A
Prep Method: EPA 3541

LOQ	LOQ	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Aroclor 1016		18	152	170	11		1	12/16/19 12:08
Aroclor 1260		18	141	155	9		1	12/16/19 12:08

Client: Leader Professional Services, Inc. **Service Request:** R1911947
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY
Chlorinated Herbicides by GC

Analysis Method: 8151A
Extraction Method: Method

Sample Name	Lab Code	2,4-Dichlorophenylacetic Acid 10-151
SB8 1-2	R1911947-001	49
SB8 6-8	R1911947-002	53
SB11 1-2	R1911947-003	79
SB11 6-8	R1911947-004	54
SB11 6-8 Dup	R1911947-005	62
SB9 2-4	R1911947-006	55
SB9 11-13	R1911947-007	61
SB10 2-4	R1911947-008	55
SB10 12-14	R1911947-009	56
Method Blank	RQ1914622-01	47
Method Blank	RQ1914623-03	62
Lab Control Sample	RQ1914622-02	60
Duplicate Lab Control Sample	RQ1914622-03	59
Lab Control Sample	RQ1914623-04	60
Duplicate Lab Control Sample	RQ1914623-05	66
SB11 6-8 MS	RQ1914623-01	61
SB11 6-8 DMS	RQ1914623-02	66

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19
		Date Analyzed:	12/20/19
		Date Extracted:	12/16/19

Duplicate Matrix Spike Summary
Chlorinated Herbicides by GC

Sample Name:	SB11 6-8	**Units:**	ug/Kg
Lab Code:	R1911947-004	**Basis:**	Dry
Analysis Method:	8151A		
Prep Method:	Method		

		Matrix Spike RQ1914623-01			Duplicate Matrix Spike RQ1914623-02					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
2,4,5-T	11 U	26.2	56.6	46	31.5	56.3	56	19-127	18	30
2,4,5-TP	11 U	25.3	56.6	45	31.6	56.3	56	11-133	22	30
2,4-D	11 U	27.9	56.6	49	33.5	56.3	60	24-165	18	30
Dicamba	11 U	23.0	56.6	41	26.9	56.3	48	10-136	16	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Analyzed:**	12/17/19 22:41
Sample Matrix:	Soil	**Date Extracted:**	12/16/19

Method Blank Summary
Chlorinated Herbicides by GC

Sample Name:	Method Blank	**Instrument ID:**	R-GC-63
Lab Code:	RQ1914622-01	**File ID:**	I:\ACQUDATA\7890N.net\data\121719\ae7870.D\
Analysis Method:	8151A	**Analysis Lot:**	663801,664414
Prep Method:	Method	**Extraction Lot:**	350525

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Duplicate Lab Control Sample	RQ1914622-03	I:\ACQUDATA\7890N.net\data\121719\ae7872.D\	12/17/19 23:15
Lab Control Sample	RQ1914622-02	I:\ACQUDATA\7890N.net\data\121719\ae7874.D\	12/17/19 23:48
SB8 1-2	R1911947-001	I:\ACQUDATA\7890N.net\data\121719\ae7891.D\	12/18/19 04:33
SB8 6-8	R1911947-002	I:\ACQUDATA\7890N.net\data\121719\ae7892.D\	12/18/19 04:50
SB11 1-2	R1911947-003	I:\ACQUDATA\7890N.net\data\121719\ae7893.D\	12/18/19 05:07

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QA/QC Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Analyzed:**	12/20/19 15:57
Sample Matrix:	Soil	**Date Extracted:**	12/16/19

Method Blank Summary
Chlorinated Herbicides by GC

Sample Name:	Method Blank	**Instrument ID:**	R-GC-63
Lab Code:	RQ1914623-03	**File ID:**	I:\ACQUDATA\7890N.net\data\122019\ae7970.D\
Analysis Method:	8151A	**Analysis Lot:**	663801,664414
Prep Method:	Method	**Extraction Lot:**	350526

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1914623-04	I:\ACQUDATA\7890N.net\data\122019\ae7971.D\	12/20/19 16:14
Duplicate Lab Control Sample	RQ1914623-05	I:\ACQUDATA\7890N.net\data\122019\ae7972.D\	12/20/19 16:31
SB11 6-8	R1911947-004	I:\ACQUDATA\7890N.net\data\122019\ae7973.D\	12/20/19 16:47
SB11 6-8MS	RQ1914623-01	I:\ACQUDATA\7890N.net\data\122019\ae7974.D\	12/20/19 17:05
SB11 6-8DMS	RQ1914623-02	I:\ACQUDATA\7890N.net\data\122019\ae7975.D\	12/20/19 17:21
SB11 6-8 Dup	R1911947-005	I:\ACQUDATA\7890N.net\data\122019\ae7976.D\	12/20/19 17:38
SB9 2-4	R1911947-006	I:\ACQUDATA\7890N.net\data\122019\ae7977.D\	12/20/19 17:55
SB9 11-13	R1911947-007	I:\ACQUDATA\7890N.net\data\122019\ae7978.D\	12/20/19 18:12
SB10 2-4	R1911947-008	I:\ACQUDATA\7890N.net\data\122019\ae7979.D\	12/20/19 18:28
SB10 12-14	R1911947-009	I:\ACQUDATA\7890N.net\data\122019\ae7981.D\	12/20/19 19:02

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914622-01	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	10 U	10	3.7	1	12/17/19 22:41	12/16/19	
2,4,5-TP	10 U	10	3.5	1	12/17/19 22:41	12/16/19	
2,4-D	10 U	10	5.7	1	12/17/19 22:41	12/16/19	
Dicamba	10 U	10	3.7	1	12/17/19 22:41	12/16/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	47	10 - 151	12/17/19 22:41	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1914623-03	**Basis:**	Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	10 U	10	3.7	1	12/20/19 15:57	12/16/19	
2,4,5-TP	10 U	10	3.4	1	12/20/19 15:57	12/16/19	
2,4-D	10 U	10	5.7	1	12/20/19 15:57	12/16/19	
Dicamba	10 U	10	3.7	1	12/20/19 15:57	12/16/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	62	10 - 151	12/20/19 15:57	

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QA/QC Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Analyzed:**	12/17/19 23:48
Sample Matrix:	Soil	**Date Extracted:**	12/16/19

Lab Control Sample Summary
Chlorinated Herbicides by GC

Sample Name:	Lab Control Sample	**Instrument ID:**	R-GC-63
Lab Code:	RQ1914622-02	**File ID:**	I:\ACQUDATA\7890N.net\data\121719\ae7874.D\
Analysis Method:	8151A	**Analysis Lot:**	663801,664414
Prep Method:	Method	**Extraction Lot:**	350525

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ1914622-01	I:\ACQUDATA\7890N.net\data\121719\ae7870.D\	12/17/19 22:41
Duplicate Lab Control Sample	RQ1914622-03	I:\ACQUDATA\7890N.net\data\121719\ae7872.D\	12/17/19 23:15
SB8 1-2	R1911947-001	I:\ACQUDATA\7890N.net\data\121719\ae7891.D\	12/18/19 04:33
SB8 6-8	R1911947-002	I:\ACQUDATA\7890N.net\data\121719\ae7892.D\	12/18/19 04:50
SB11 1-2	R1911947-003	I:\ACQUDATA\7890N.net\data\121719\ae7893.D\	12/18/19 05:07

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QA/QC Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Analyzed:**	12/20/19 16:14
Sample Matrix:	Soil	**Date Extracted:**	12/16/19

Lab Control Sample Summary
Chlorinated Herbicides by GC

Sample Name:	Lab Control Sample	**Instrument ID:**	R-GC-63
Lab Code:	RQ1914623-04	**File ID:**	I:\ACQUDATA\7890N.net\data\122019\ae7971.D\
Analysis Method:	8151A	**Analysis Lot:**	663801,664414
Prep Method:	Method	**Extraction Lot:**	350526

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ1914623-03	I:\ACQUDATA\7890N.net\data\122019\ae7970.D\	12/20/19 15:57
Duplicate Lab Control Sample	RQ1914623-05	I:\ACQUDATA\7890N.net\data\122019\ae7972.D\	12/20/19 16:31
SB11 6-8	R1911947-004	I:\ACQUDATA\7890N.net\data\122019\ae7973.D\	12/20/19 16:47
SB11 6-8MS	RQ1914623-01	I:\ACQUDATA\7890N.net\data\122019\ae7974.D\	12/20/19 17:05
SB11 6-8DMS	RQ1914623-02	I:\ACQUDATA\7890N.net\data\122019\ae7975.D\	12/20/19 17:21
SB11 6-8 Dup	R1911947-005	I:\ACQUDATA\7890N.net\data\122019\ae7976.D\	12/20/19 17:38
SB9 2-4	R1911947-006	I:\ACQUDATA\7890N.net\data\122019\ae7977.D\	12/20/19 17:55
SB9 11-13	R1911947-007	I:\ACQUDATA\7890N.net\data\122019\ae7978.D\	12/20/19 18:12
SB10 2-4	R1911947-008	I:\ACQUDATA\7890N.net\data\122019\ae7979.D\	12/20/19 18:28
SB10 12-14	R1911947-009	I:\ACQUDATA\7890N.net\data\122019\ae7981.D\	12/20/19 19:02

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QA/QC Report

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

Service Request: R1911947
Date Analyzed: 12/17/19

Duplicate Lab Control Sample Summary
Chlorinated Herbicides by GC

Units:ug/Kg
Basis: Dry

			Lab Control Sample RQ1914622-02			Duplicate Lab Control Sample RQ1914622-03				
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
2,4,5-T	8151A	34.3	50.0	69	32.3	50.0	65	19-127	6	30
2,4,5-TP	8151A	31.1	50.0	62	28.0	50.0	56	18-122	10	30
2,4-D	8151A	31.2	50.0	62	29.2	50.0	58	24-165	7	30
Dicamba	8151A	26.9	50.0	54	24.2	50.0	48	26-128	10	30

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QA/QC Report

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

Service Request: R1911947
Date Analyzed: 12/20/19

Duplicate Lab Control Sample Summary
Chlorinated Herbicides by GC

Units:ug/Kg
Basis: Dry

			Lab Control Sample			Duplicate Lab Control Sample				
			RQ1914623-04			RQ1914623-05				
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
2,4,5-T	8151A	24.2	50.3	48	26.3	49.7	53	19-127	8	30
2,4,5-TP	8151A	24.3	50.3	48	25.7	49.7	52	18-122	6	30
2,4-D	8151A	25.8	50.3	51	27.9	49.7	56	24-165	8	30
Dicamba	8151A	23.0	50.3	46	24.0	49.7	48	26-128	4	30

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Confirmation Results

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
SRM Matrix: Soil

Service Request: R1911947
Date Collected: NA
Date Received:

Sample Name: Lab Control Sample
Lab Code: RQ1914622-02

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analytical Method: 8151A
Prep Method: Method

LOQ	LOQ	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-T		3.7	34.3	38.3	11		1	12/17/19 23:48
2,4,5-TP		3.4	31.1	36.7	17		1	12/17/19 23:48
2,4-D		5.7	31.2	37.4	18		1	12/17/19 23:48
Dicamba		3.7	26.9	30.1	11		1	12/17/19 23:48

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Confirmation Results

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
SRM Matrix: Soil

Service Request: R1911947
Date Collected: NA
Date Received:

Sample Name: Duplicate Lab Control Sample
Lab Code: RQ1914622-03

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analytical Method: 8151A
Prep Method: Method

LOQ	LOQ	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-T		3.7	32.3	35.5	9		1	12/17/19 23:15
2,4,5-TP		3.4	28.0	34.2	20		1	12/17/19 23:15
2,4-D		5.7	29.2	35.5	19		1	12/17/19 23:15
Dicamba		3.7	24.2	28.6	17		1	12/17/19 23:15

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Confirmation Results

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
SRM Matrix: Soil

Service Request: R1911947
Date Collected: 12/05/19
Date Received: 12/5/19

Sample Name: SB11 6-8
Lab Code: RQ1914623-01

Units: ug/Kg
Basis: Dry
Percent Solids: 88.8

Chlorinated Herbicides by GC

Analytical Method: 8151A
Prep Method: Method

LOQ	LOQ	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-T		4.1	26.2	29.4	12		1	12/20/19 17:05
2,4,5-TP		3.9	25.3	27.1	7		1	12/20/19 17:05
2,4-D		6.4	27.9	30.3	8		1	12/20/19 17:05
Dicamba		4.2	23.0	26.0	12		1	12/20/19 17:05

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Confirmation Results

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
SRM Matrix: Soil

Service Request: R1911947
Date Collected: 12/05/19
Date Received: 12/5/19

Sample Name: SB11 6-8
Lab Code: RQ1914623-02

Units: ug/Kg
Basis: Dry
Percent Solids: 88.8

Chlorinated Herbicides by GC

Analytical Method: 8151A
Prep Method: Method

LOQ	LOQ	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-T		4.1	31.5	34.9	10		1	12/20/19 17:21
2,4,5-TP		3.9	31.6	32.1	2		1	12/20/19 17:21
2,4-D		6.4	33.5	35.8	7		1	12/20/19 17:21
Dicamba		4.2	26.9	30.2	12		1	12/20/19 17:21

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Confirmation Results

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
SRM Matrix: Soil

Service Request: R1911947
Date Collected: NA
Date Received:

Sample Name: Lab Control Sample
Lab Code: RQ1914623-04

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analytical Method: 8151A
Prep Method: Method

LOQ	LOQ	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-T		3.7	24.2	27.4	12		1	12/20/19 16:14
2,4,5-TP		3.5	24.3	25.8	6		1	12/20/19 16:14
2,4-D		5.7	25.8	29.5	13		1	12/20/19 16:14
Dicamba		3.7	23.0	24.0	4		1	12/20/19 16:14

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Confirmation Results

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
SRM Matrix: Soil

Service Request: R1911947
Date Collected: NA
Date Received:

Sample Name: Duplicate Lab Control Sample
Lab Code: RQ1914623-05

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analytical Method: 8151A
Prep Method: Method

LOQ	LOQ	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-T		3.7	26.3	29.4	11		1	12/20/19 16:31
2,4,5-TP		3.4	25.7	27.4	6		1	12/20/19 16:31
2,4-D		5.7	27.9	31.2	11		1	12/20/19 16:31
Dicamba		3.7	24.0	25.4	6		1	12/20/19 16:31

Metals

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METALS

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: R1911947

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: SB8 1-2

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	10000	9810	98	10000	9910	99	9910	99	P
Antimony	5000	4870	97	5000	4830	97	4830	97	P
Arsenic	1000	1010	101	1000	965	96	964	96	P
Barium	10000	10200	102	10000	10100	101	10100	101	P
Beryllium	250	255	102	250	254	102	254	102	P
Cadmium	500	515	103	500	509	102	508	102	P
Mercury	3.00	3.02	101	3.00	3.18	106	3.23	108	CV
Calcium	25000	23900	96	25000	24100	96	24300	97	P
Chromium	500	512	102	500	500	100	499	100	P
Cobalt	2500	2590	104	2500	2600	104	2590	104	P
Copper	1250	1200	96	1250	1220	98	1220	98	P
Iron	5000	4870	97	5000	4870	97	4880	98	P
Lead	500	512	102	500	501	100	502	100	P
Magnesium	25000	24900	100	25000	24400	98	24400	98	P
Manganese	750	756	101	750	751	100	749	100	P
Nickel	2000	1990	100	2000	1920	96	1920	96	P
Potassium	25000	24600	98	25000	24900	100	24900	100	P
Selenium	500	497	99	500	528	106	531	106	P
Silver	500	495	99	500	497	99	497	99	P
Sodium	25000	24800	99	25000	24200	97	24100	96	P
Thallium	1000	1010	101	1000	1030	103	1030	103	P
Vanadium	2500	2540	102	2500	2520	101	2520	101	P
Zinc	1000	995	100	1000	961	96	958	96	P

Comments:

METALS

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: R1911947

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: SB8 1-2

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum				10000	9980	100	10000	100	P
Antimony				5000	4860	97	4860	97	P
Arsenic				1000	969	97	965	96	P
Barium				10000	10100	101	10100	101	P
Beryllium				250	255	102	257	103	P
Cadmium				500	513	103	512	102	P
Mercury				3.00	3.32	111	3.28	109	CV
Calcium				25000	24400	98	24500	98	P
Chromium				500	501	100	500	100	P
Cobalt				2500	2620	105	2620	105	P
Copper				1250	1230	98	1240	99	P
Iron				5000	4920	98	4930	99	P
Lead				500	502	100	501	100	P
Magnesium				25000	24500	98	24500	98	P
Manganese				750	755	101	755	101	P
Nickel				2000	1920	96	1910	96	P
Potassium				25000	25200	101	25300	101	P
Selenium				500	536	107	529	106	P
Silver				500	500	100	502	100	P
Sodium				25000	24000	96	24000	96	P
Thallium				1000	1040	104	1050	105	P
Vanadium				2500	2540	102	2540	102	P
Zinc				1000	962	96	959	96	P

Comments:

METALS

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: R1911947

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: SB8 1-2

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum				10000	10000	100	10000	100	P
Antimony				5000	4850	97	4850	97	P
Arsenic				1000	966	97	953	95	P
Barium				10000	10100	101	10100	101	P
Beryllium				250	255	102	256	102	P
Cadmium				500	510	102	509	102	P
Mercury				3.00	3.24	108			CV
Calcium				25000	24500	98	24600	98	P
Chromium				500	499	100	497	99	P
Cobalt				2500	2610	104	2620	105	P
Copper				1250	1240	99	1240	99	P
Iron				5000	4900	98	4900	98	P
Lead				500	496	99	497	99	P
Magnesium				25000	24400	98	24400	98	P
Manganese				750	753	100	752	100	P
Nickel				2000	1900	95	1890	94	P
Potassium				25000	25200	101	25400	102	P
Selenium				500	543	109	544	109	P
Silver				500	501	100	501	100	P
Sodium				25000	23800	95	23800	95	P
Thallium				1000	1040	104	1050	105	P
Vanadium				2500	2530	101	2540	102	P
Zinc				1000	955	96	949	95	P

Comments:

METALS

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: R1911947

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: SB8 1-2

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum				10000	10000	100	10000	100	P
Antimony				5000	4840	97	4850	97	P
Arsenic				1000	952	95	945	94	P
Barium				10000	10000	100	10000	100	P
Beryllium				250	256	102	256	102	P
Cadmium				500	509	102	510	102	P
Calcium				25000	24500	98	24600	98	P
Chromium				500	496	99	496	99	P
Cobalt				2500	2620	105	2620	105	P
Copper				1250	1240	99	1240	99	P
Iron				5000	4900	98	4900	98	P
Lead				500	494	99	492	98	P
Magnesium				25000	24300	97	24300	97	P
Manganese				750	751	100	752	100	P
Nickel				2000	1880	94	1880	94	P
Potassium				25000	25500	102	25500	102	P
Selenium				500	545	109	546	109	P
Silver				500	500	100	500	100	P
Sodium				25000	23700	95	23800	95	P
Thallium				1000	1050	105	1050	105	P
Vanadium				2500	2530	101	2540	102	P
Zinc				1000	946	95	945	94	P

Comments:

METALS

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: R1911947

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: SB8 1-2

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum				10000	10300	103			P
Antimony				5000	5000	100			P
Arsenic				1000	970	97			P
Barium				10000	10300	103			P
Beryllium				250	264	106			P
Cadmium				500	524	105			P
Calcium				25000	25400	102			P
Chromium				500	509	102			P
Cobalt				2500	2690	108			P
Copper				1250	1280	102			P
Iron				5000	5050	101			P
Lead				500	507	101			P
Magnesium				25000	25000	100			P
Manganese				750	770	103			P
Nickel				2000	1920	96			P
Potassium				25000	26300	105			P
Selenium				500	562	112			P
Silver				500	515	103			P
Sodium				25000	24400	98			P
Thallium				1000	1080	108			P
Vanadium				2500	2610	104			P
Zinc				1000	970	97			P

Comments:

METALS
-2B-
CRDL STANDARD FOR AA AND ICP

Contract: R1911947

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: SB8 1-2

AA CRDL Standard Source: ACCUSTANDARD

ICP CRDL Standard Source:

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Aluminum				200.0	195.00	98	194.90	97
Antimony				60.0	55.00	92	57.20	95
Arsenic				20.0	18.40	92	17.30	86
Barium				200.0	202.70	101	199.90	100
Beryllium				5.0	4.90	98	4.90	98
Cadmium				10.0	10.20	102	10.00	100
Mercury	0.200	0.215	108					
Calcium				1000.0	877.20	88	938.20	94
Chromium				10.0	10.10	101	10.00	100
Cobalt				50.0	50.00	100	49.90	100
Copper				25.0	23.90	96	24.00	96
Iron				100.0	100.60	101	100.90	101
Lead				10.0	8.20	82	7.40	74
Magnesium				1000.0	941.30	94	930.60	93
Manganese				15.0	15.20	101	15.20	101
Nickel				40.0	40.50	101	39.00	98
Potassium				1000.0	969.20	97	988.80	99
Selenium				10.0	9.10	91	11.60	116
Silver				10.0	10.00	100	10.10	101
Sodium				1000.0	996.20	100	972.30	97
Thallium				20.0	18.80	94	19.30	96
Vanadium				50.0	49.40	99	49.70	99
Zinc				20.0	19.20	96	19.10	96

Comments:

METALS
-2B-
CRDL STANDARD FOR AA AND ICP

Contract: R1911947

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: SB8 1-2

AA CRDL Standard Source: ACCUSTANDARD

ICP CRDL Standard Source:

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Mercury	0.200	0.220	110					

Comments:

METALS

-3-

BLANKS

Contract: R1911947

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: SB8 1-2

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): MG/KG

Analyte	Initial Calib. Blank ug/L	C	Continuing Calibration Blank ug/L 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum	120.00	U	120.00	U	120.00	U	120.00	U	12.000	U	P
Antimony	5.40	U	5.40	U	5.40	U	5.40	U	0.540	U	P
Arsenic	7.00	U	7.00	U	7.00	U	7.00	U	0.700	U	P
Barium	9.70	U	9.70	U	9.70	U	9.70	U	0.970	U	P
Beryllium	0.29	U	0.29	U	0.29	U	0.29	U	0.029	U	P
Cadmium	0.73	U	0.73	U	0.73	U	0.73	U	0.073	U	P
Mercury	0.035	U	0.035	U	0.035	U	0.035	U	0.006	U	CV
Calcium	320.00	U	320.00	U	320.00	U	320.00	U	32.000	U	P
Chromium	3.50	U	3.50	U	3.50	U	3.50	U	0.350	U	P
Cobalt	1.90	U	1.90	U	1.90	U	1.90	U	0.190	U	P
Copper	6.30	U	6.30	U	6.30	U	6.30	U	0.630	U	P
Iron	130.00	U	130.00	U	130.00	U	130.00	U	13.000	U	P
Lead	4.00	U	4.00	U	4.00	U	4.00	U	0.400	U	P
Magnesium	130.00	U	130.00	U	130.00	U	130.00	U	13.000	U	P
Manganese	15.00	U	15.00	U	15.00	U	15.00	U	1.500	U	P
Nickel	6.60	U	6.60	U	6.60	U	6.60	U	0.660	U	P
Potassium	96.00	U	96.00	U	96.00	U	96.00	U	9.600	U	P
Selenium	5.40	U	5.40	U	5.40	U	5.40	U	0.540	U	P
Silver	0.71	U	0.71	U	0.71	U	0.71	U	0.071	U	P
Sodium	520.00	U	520.00	U	520.00	U	520.00	U	52.000	U	P
Thallium	6.50	U	6.50	U	6.50	U	6.50	U	0.650	U	P
Vanadium	7.10	U	7.10	U	7.10	U	7.10	U	0.710	U	P
Zinc	14.00	U	14.00	U	14.00	U	14.00	U	1.400	U	P

Comments:

METALS

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BLANKS

Contract: R1911947

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: SB8 1-2

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	C	Continuing Calibration Blank ug/L 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum			120.00	U	120.00	U	120.00	U			P
Antimony			5.40	U	5.40	U	5.40	U			P
Arsenic			7.00	U	7.00	U	7.00	U			P
Barium			9.70	U	9.70	U	9.70	U			P
Beryllium			0.29	U	0.29	U	0.29	U			P
Cadmium			0.73	U	0.73	U	0.73	U			P
Mercury			0.035	U	0.035	U					CV
Calcium			320.00	U	320.00	U	320.00	U			P
Chromium			3.50	U	3.50	U	3.50	U			P
Cobalt			1.90	U	1.90	U	1.90	U			P
Copper			6.30	U	6.30	U	6.30	U			P
Iron			130.00	U	130.00	U	130.00	U			P
Lead			4.00	U	4.00	U	4.00	U			P
Magnesium			130.00	U	130.00	U	130.00	U			P
Manganese			15.00	U	15.00	U	15.00	U			P
Nickel			6.60	U	6.60	U	6.60	U			P
Potassium			96.00	U	96.00	U	96.00	U			P
Selenium			5.40	U	5.40	U	5.40	U			P
Silver			0.71	U	0.71	U	0.71	U			P
Sodium			520.00	U	520.00	U	520.00	U			P
Thallium			6.50	U	6.50	U	6.50	U			P
Vanadium			7.10	U	7.10	U	7.10	U			P
Zinc			14.00	U	14.00	U	14.00	U			P

Comments:

METALS

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BLANKS

Contract: R1911947

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: SB8 1-2

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	C	Continuing Calibration Blank ug/L 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum			120.00	U	120.00	U	120.00	U			P
Antimony			5.40	U	5.40	U	5.40	U			P
Arsenic			7.00	U	7.00	U	7.00	U			P
Barium			9.70	U	9.70	U	9.70	U			P
Beryllium			0.29	U	0.29	U	0.29	U			P
Cadmium			0.73	U	0.73	U	0.73	U			P
Calcium			320.00	U	320.00	U	320.00	U			P
Chromium			3.50	U	3.50	U	3.50	U			P
Cobalt			1.90	U	1.90	U	1.90	U			P
Copper			6.30	U	6.30	U	6.30	U			P
Iron			130.00	U	130.00	U	130.00	U			P
Lead			4.00	U	4.00	U	4.00	U			P
Magnesium			130.00	U	130.00	U	130.00	U			P
Manganese			15.00	U	15.00	U	15.00	U			P
Nickel			6.60	U	6.60	U	6.60	U			P
Potassium			96.00	U	96.00	U	96.00	U			P
Selenium			5.40	U	5.40	U	5.40	U			P
Silver			0.71	U	0.71	U	0.71	U			P
Sodium			520.00	U	520.00	U	520.00	U			P
Thallium			6.50	U	6.50	U	6.50	U			P
Vanadium			7.10	U	7.10	U	7.10	U			P
Zinc			14.00	U	14.00	U	14.00	U			P

Comments:

METALS

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ICP INTERFERENCE CHECK SAMPLE

Contract: R1911947

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: SB8 1-2

ICP ID Number: Agilent ICP ICS Source: PERKIN ELMER

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Aluminum	250000	250000	253000.0	253000	101	255000.0	255000	102
Antimony		600	-9.0	600	100	-7.6	601	100
Arsenic		100	-4.7	93	93	-2.2	92	92
Barium		500	0.7	514	103	0.7	510	102
Beryllium		500	-0.1	495	99	-0.1	495	99
Cadmium		1000	-1.5	955	96	-1.9	950	95
Calcium	250000	250000	264000.0	264000	106	267000.0	267000	107
Chromium		500	1.2	490	98	1.2	483	97
Cobalt		500	-2.4	497	99	-2.9	498	100
Copper		500	-0.2	539	108	-0.3	545	109
Iron	100000	100000	91300.0	90900	91	91100.0	91000	91
Lead		50	-3.3	47	94	-5.2	45	90
Magnesium	250000	250000	263000.0	263000	105	261000.0	262000	105
Manganese		500	2.0	495	99	1.9	491	98
Nickel		1000	0.5	940	94	0.5	915	92
Potassium			28.8	11		20.0	15	
Selenium		50	2.8	58	116	-4.9	49	98
Silver		200	0.7	214	107	0.9	214	107
Sodium			-2.0	-3		-9.1	-9	
Thallium		100	5.2	117	117	5.3	117	117
Vanadium		500	2.6	503	101	3.3	503	101
Zinc		1000	9.1	977	98	8.5	955	96

METALS

-5A-

SPIKE SAMPLE RECOVERY

SAMPLE NO.

SB11 6-8S

Contract: R1911947

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: SB8 1-2

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 88.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum		9640.00		8130.00		221.0	683		P
Antimony	75 - 125	29.70		0.57	U	55.2	54	N	P
Arsenic	75 - 125	6.51		2.50		4.4	91		P
Barium	75 - 125	327.00		109.00		221.0	99		P
Beryllium	75 - 125	4.99		0.38		5.5	84		P
Cadmium	75 - 125	4.55		0.27	J	5.5	78		P
Mercury	75 - 125	0.193		0.009	J	0.18	102		CV
Calcium		66100.00		102000.00		221.0	-16244		P
Chromium	75 - 125	32.10		12.20		22.1	90		P
Cobalt	75 - 125	52.30		6.92		55.2	82		P
Copper	75 - 125	42.40		17.10		27.6	92		P
Iron		18100.00		16700.00		110.0	1273		P
Lead	75 - 125	54.30		8.84		55.2	82		P
Magnesium		15700.00		42800.00		221.0	-12262		P
Manganese		683.00		672.00		55.2	20		P
Nickel	75 - 125	53.20		9.63		55.2	79		P
Potassium	75 - 125	4310.00		2030.00		2210.0	103		P
Selenium	75 - 125	92.60		0.57	U	112.0	83		P
Silver	75 - 125	4.87		0.08	U	5.5	89		P
Sodium	75 - 125	2230.00		190.00		2210.0	92		P
Thallium	75 - 125	207.00		3.27		221.0	92		P
Vanadium	75 - 125	65.80		18.10		55.2	86		P
Zinc	75 - 125	106.00		59.70		55.2	84		P

Comments: _____

METALS

-5A-

SPIKE SAMPLE RECOVERY

SAMPLE NO.

SB11 6-8SD

Contract: R1911947

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: SB8 1-2

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 88.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum		10000.00		8130.00		221.0	846		P
Antimony	75 - 125	29.60		0.57	U	55.2	54	N	P
Arsenic	75 - 125	6.85		2.50		4.4	99		P
Barium	75 - 125	343.00		109.00		221.0	106		P
Beryllium	75 - 125	5.44		0.38		5.5	92		P
Cadmium	75 - 125	5.02		0.27	J	5.5	86		P
Mercury	75 - 125	0.195		0.009	J	0.18	103		CV
Calcium		61700.00		102000.00		221.0	-18235		P
Chromium	75 - 125	34.20		12.20		22.1	100		P
Cobalt	75 - 125	59.80		6.92		55.2	96		P
Copper	75 - 125	48.60		17.10		27.6	114		P
Iron		19600.00		16700.00		110.0	2636		P
Lead	75 - 125	60.70		8.84		55.2	94		P
Magnesium		19200.00		42800.00		221.0	-10679		P
Manganese		621.00		672.00		55.2	-92		P
Nickel	75 - 125	60.50		9.63		55.2	92		P
Potassium	75 - 125	4360.00		2030.00		2210.0	105		P
Selenium	75 - 125	103.00		0.57	U	112.0	92		P
Silver	75 - 125	5.52		0.08	U	5.5	100		P
Sodium	75 - 125	2340.00		190.00		2210.0	97		P
Thallium	75 - 125	231.00		3.27		221.0	103		P
Vanadium	75 - 125	72.30		18.10		55.2	98		P
Zinc	75 - 125	121.00		59.70		55.2	111		P

Comments: _____

METALS
-5B-

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.: SB11 6-8A

Contract: R1911947

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: SB8 1-2

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added(SA)	%R	Q	M
Aluminum		76300.00		76500.00		2000.0	-10		P
Antimony		417.00		5.40	U	500.0	83		P
Arsenic		54.20		23.50		40.0	77		P
Barium		2760.00		1030.00		2000.0	86		P
Beryllium		46.10		3.60		50.0	85		P
Cadmium		42.40		2.50	J	50.0	80		P
Calcium		96300.00		96300.00		2000.0	0		P
Chromium		282.00		114.00		200.0	84		P
Cobalt		499.00		65.10		500.0	87		P
Copper		410.00		161.00		250.0	100		P
Iron		15900.00		15700.00		1000.0	20		P
Lead		512.00		83.20		500.0	86		P
Magnesium		392000.00		402000.00		2000.0	-500		P
Manganese		6560.00		6330.00		500.0	46		P
Nickel		490.00		90.60		500.0	80		P
Potassium		39100.00		19100.00		20000.0	100		P
Selenium		915.00		5.40	U	1010.0	91		P
Silver		49.20		0.71	U	50.0	98		P
Sodium		21100.00		1790.00		20000.0	97		P
Thallium		2100.00		30.80		2000.0	103		P
Vanadium		606.00		171.00		500.0	87		P
Zinc		965.00		562.00		500.0	81		P

Comments: _____

METALS
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DUPLICATES

SAMPLE NO.: SB11 6-8SD

Contract: R1911947

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: SB8 1-2

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 88.8 % Solids for Duplicate: 88.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		9640.00		10000.00		4		P
Antimony		29.70		29.60		0		P
Arsenic		6.51		6.85		5		P
Barium		327.00		343.00		5		P
Beryllium		4.99		5.44		9		P
Cadmium		4.55		5.02		10		P
Mercury		0.193		0.195		1		CV
Calcium		66100.00		61700.00		7		P
Chromium		32.10		34.20		6		P
Cobalt		52.30		59.80		13		P
Copper		42.40		48.60		14		P
Iron		18100.00		19600.00		8		P
Lead		54.30		60.70		11		P
Magnesium		15700.00		19200.00		20		P
Manganese		683.00		621.00		10		P
Nickel		53.20		60.50		13		P
Potassium		4310.00		4360.00		1		P
Selenium		92.60		103.00		11		P
Silver		4.87		5.52		13		P
Sodium		2230.00		2340.00		5		P
Thallium		207.00		231.00		11		P
Vanadium		65.80		72.30		9		P
Zinc		106.00		121.00		13		P

Comments:

METALS

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LABORATORY CONTROL SAMPLE

Contract: R1911947

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: SB8 1-2

Solid LCS Source: CPI

Aqueous LCS Source:

Analyte	Aqueous (ug/L			Solid (mg/K				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum				200	193.45		160 240	97
Antimony				50	46.37		40 60	93
Arsenic				4	3.52		3.2 4.8	88
Barium				200	203.69		160 240	102
Beryllium				5	4.93		4 6	99
Cadmium				5	5.00		4 6	100
Mercury				0.166	0.14		.133 .199	84
Calcium				200	182.59		160 240	91
Chromium				20	20.22		16 24	101
Cobalt				50	51.28		40 60	103
Copper				25	24.96		20 30	100
Iron				100	107.85		80 120	108
Lead				50	48.61		40 60	97
Magnesium				200	188.75		160 240	94
Manganese				50	49.58		40 60	99
Nickel				50	48.71		40 60	97
Potassium				2000	1943.53		1600 2400	97
Selenium				101	97.62		80.8 121	97
Silver				5	4.90		4 6	98
Sodium				2000	1921.25		1600 2400	96
Thallium				200	186.20		160 240	93
Vanadium				50	49.86		40 60	100
Zinc				50	47.45		40 60	95

Comments:

METALS

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ICP SERIAL DILUTIONS

SAMPLE NO.

SB11 6-8L

Contract: R1911947

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: SB8 1-2

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	76500.00		82700.00		8		P
Antimony	5.40	U	27.00	U			P
Arsenic	23.50		35.00	U	100.0		P
Barium	1030.00		1130.00		10		P
Beryllium	3.60		4.00	J	11		P
Cadmium	2.50	J	3.65	U	100.0		P
Calcium	96300.00		88400.00		8		P
Chromium	114.00		128.00		12		P
Cobalt	65.10		68.50	J	5		P
Copper	161.00		152.00		6		P
Iron	15700.00		15800.00		1		P
Lead	83.20		76.00	J	9		P
Magnesium	402000.00		402000.00		0		P
Manganese	6330.00		7000.00		11	E	P
Nickel	90.60		72.50	J	20		P
Potassium	19100.00		21000.00		10		P
Selenium	5.40	U	27.00	U			P
Silver	0.71	U	3.55	U			P
Sodium	1790.00		2600.00	U	100.0		P
Thallium	30.80		42.50	J	38		P
Vanadium	171.00		190.00	J	11		P
Zinc	562.00		598.00		6		P

Comments: _____

METALS

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DETECTION LIMITS

Contract: R1911947

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: SB8 1-2

ICP ID Number: _____ Date: 3/4/2019

Flame AA ID Number: PE FAA/CVAA

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	PQL ug/L	MDL ug/L	M
Mercury	253.70	BD	0.200	0.035	CV

Comments:

METALS

-10-

DETECTION LIMITS

Contract: R1911947

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: SB8 1-2

ICP ID Number: Agilent ICP Date: 3/4/2019

Flame AA ID Number: _____

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	PQL ug/L	MDL ug/L	M
Aluminum	237.312		200.0	120.00	P
Antimony	217.582		60.0	5.40	P
Arsenic	188.980		10.0	7.00	P
Barium	230.424		20.0	9.70	P
Beryllium	313.107		3.0	0.29	P
Cadmium	214.439		5.0	0.73	P
Calcium	227.547		1000.0	320.00	P
Chromium	267.716		10.0	3.50	P
Cobalt	230.786		50.0	1.90	P
Copper	327.395		20.0	6.30	P
Iron	234.350		200.0	130.00	P
Lead	220.353		50.0	4.00	P
Magnesium	279.078		1000.0	130.00	P
Manganese	257.610		20.0	15.00	P
Nickel	230.299		40.0	6.60	P
Potassium	766.491		2000.0	96.00	P
Selenium	196.026		10.0	5.40	P
Silver	328.068		10.0	0.71	P
Sodium	588.995		1000.0	520.00	P
Thallium	351.923		10.0	6.50	P
Vanadium	292.401		50.0	7.10	P
Zinc	213.857		20.0	14.00	P

Comments: _____

METALS
ICP LINEAR RANGES (QUARTERLY)
-12-

Contract: R1911947

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: SB8 1-2

ICP ID Number: Agilent ICP Date: 3/4/2019

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Aluminum	1.000	500000	P
Antimony	1.000	10000	P
Arsenic	1.000	4000	P
Barium	1.000	40000	P
Beryllium	1.000	1000	P
Cadmium	1.000	2000	P
Calcium	1.000	250000	P
Chromium	1.000	10000	P
Cobalt	1.000	10000	P
Copper	1.000	5000	P
Iron	1.000	50000	P
Lead	1.000	10000	P
Magnesium	1.000	500000	P
Manganese	1.000	10000	P
Nickel	1.000	8000	P
Potassium	1.000	150000	P
Selenium	1.000	2000	P
Silver	1.000	2000	P
Sodium	1.000	200000	P
Thallium	1.000	4000	P
Vanadium	1.000	10000	P
Zinc	1.000	4000	P

Comments: _____

METALS

-14-

ANALYSIS RUN LOG

Contract: R1911947

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: SB8 1-2

Instrument ID Number: Agilent ICP Method: P

Start Date: 12/13/2019 End Date: 12/14/2019

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
BLANK	1.00	16:38		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
STANDARD 1	1.00	16:41		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
STANDARD 2	1.00	16:44		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
STANDARD 3	1.00	16:48		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
STANDARD 4	1.00	16:51		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
STANDARD 5	1.00	16:54		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ICV1	1.00	16:58		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ICB1	1.00	17:01		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	17:04																									
ZZZZZZ	1.00	17:08																									
ZZZZZZ	1.00	17:11																									
ZZZZZZ	1.00	17:14																									
ZZZZZZ	1.00	17:17																									
ZZZZZZ	1.00	17:21																									
ZZZZZZ	1.00	17:24																									
ZZZZZZ	1.00	17:27																									
ZZZZZZ	1.00	17:30																									
ZZZZZZ	1.00	17:34																									
ZZZZZZ	1.00	17:37																									
ZZZZZZ	1.00	17:40																									
ZZZZZZ	1.00	17:43																									
ZZZZZZ	5.00	17:47																									
ZZZZZZ	1.00	17:50																									
ZZZZZZ	1.00	17:53																									
ZZZZZZ	1.00	17:56																									
ZZZZZZ	1.00	18:00																									
ZZZZZZ	1.00	18:03																									
ZZZZZZ	1.00	18:06																									
ZZZZZZ	1.00	18:10																									
ZZZZZZ	1.00	18:13																									
ZZZZZZ	1.00	18:16																									
ZZZZZZ	1.00	18:19																									
ZZZZZZ	1.00	18:23																									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS
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ANALYSIS RUN LOG

Contract: R1911947

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: SB8 1-2

Instrument ID Number: Agilent ICP Method: P

Start Date: 12/13/2019 End Date: 12/14/2019

Sample ID.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	5.00	18:26																												
ZZZZZZ	1.00	18:29																												
ZZZZZZ	1.00	18:32																												
ZZZZZZ	1.00	18:36																												
ZZZZZZ	1.00	18:39																												
ZZZZZZ	1.00	18:42																												
ZZZZZZ	1.00	18:45																												
ZZZZZZ	1.00	18:49																												
ZZZZZZ	1.00	18:52																												
ZZZZZZ	1.00	18:55																												
ZZZZZZ	1.00	18:58																												
ZZZZZZ	5.00	19:02																												
ZZZZZZ	1.00	19:05																												
ZZZZZZ	5.00	19:08																												
ZZZZZZ	1.00	19:11																												
ZZZZZZ	1.00	19:15																												
ZZZZZZ	10.00	19:18																												
ZZZZZZ	10.00	19:21																												
ZZZZZZ	1.00	19:24																												
ZZZZZZ	5.00	19:28																												
ZZZZZZ	1.00	19:31																												
ZZZZZZ	5.00	19:34																												
ZZZZZZ	1.00	19:37																												
ZZZZZZ	1.00	19:41																												
ZZZZZZ	1.00	19:44																												
ZZZZZZ	1.00	19:47																												
ZZZZZZ	1.00	19:50																												
ZZZZZZ	1.00	19:54																												
ZZZZZZ	1.00	19:57																												
ZZZZZZ	1.00	20:00																												
ZZZZZZ	1.00	20:03																												
ZZZZZZ	1.00	20:07																												
ZZZZZZ	1.00	20:10																												

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METALS
-14-

ANALYSIS RUN LOG

Contract: R1911947

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: SB8 1-2

Instrument ID Number: Agilent ICP Method: P

Start Date: 12/13/2019 End Date: 12/14/2019

Sample ID.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	20:13																												
ZZZZZZ	1.00	20:16																												
ZZZZZZ	1.00	20:20																												
ZZZZZZ	1.00	20:23																												
ZZZZZZ	1.00	20:26																												
ZZZZZZ	1.00	20:29																												
ZZZZZZ	1.00	20:33																												
ZZZZZZ	1.00	20:36																												
ZZZZZZ	1.00	20:39																												
ZZZZZZ	1.00	20:42																												
ZZZZZZ	1.00	20:46																												
ZZZZZZ	1.00	20:49																												
ZZZZZZ	1.00	20:52																												
ZZZZZZ	1.00	20:55																												
ZZZZZZ	1.00	20:59																												
ZZZZZZ	1.00	21:02																												
ZZZZZZ	1.00	21:05																												
ZZZZZZ	1.00	21:08																												
ZZZZZZ	1.00	21:12																												
ZZZZZZ	1.00	21:15																												
ZZZZZZ	1.00	21:18																												
ZZZZZZ	1.00	21:21																												
ZZZZZZ	1.00	21:25																												
ZZZZZZ	5.00	21:28																												
ZZZZZZ	1.00	21:31																												
ZZZZZZ	1.00	21:34																												
ZZZZZZ	1.00	21:38																												
ZZZZZZ	1.00	21:41																												
ZZZZZZ	1.00	21:44																												
ZZZZZZ	1.00	21:47																												
ZZZZZZ	1.00	21:51																												
ZZZZZZ	1.00	21:54																												
ZZZZZZ	1.00	21:57																												

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METALS
-14-

ANALYSIS RUN LOG

Contract: R1911947

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: SB8 1-2

Instrument ID Number: Agilent ICP Method: P

Start Date: 12/13/2019 End Date: 12/14/2019

Sample ID.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
ZZZZZZ	1.00	22:00																												
ZZZZZZ	1.00	22:04																												
ZZZZZZ	1.00	22:07																												
ZZZZZZ	1.00	22:10																												
ZZZZZZ	1.00	22:13																												
ZZZZZZ	1.00	22:17																												
ZZZZZZ	1.00	22:20																												
ZZZZZZ	1.00	22:23																												
ZZZZZZ	1.00	22:26																												
ZZZZZZ	1.00	22:30																												
ZZZZZZ	1.00	22:33																												
ZZZZZZ	1.00	22:36																												
ZZZZZZ	1.00	22:39																												
ZZZZZZ	1.00	22:43																												
ZZZZZZ	1.00	22:46																												
ZZZZZZ	1.00	22:49																												
ZZZZZZ	1.00	22:52																												
ZZZZZZ	1.00	22:56																												
ZZZZZZ	1.00	22:59																												
ZZZZZZ	5.00	23:02																												
ZZZZZZ	1.00	23:05																												
ZZZZZZ	1.00	23:09																												
ZZZZZZ	1.00	23:12																												
ZZZZZZ	1.00	23:15																												
ZZZZZZ	1.00	23:18																												
ZZZZZZ	1.00	23:22																												
ZZZZZZ	1.00	23:25																												
ZZZZZZ	1.00	23:28																												
ZZZZZZ	1.00	23:31																												
ZZZZZZ	1.00	23:35																												
ZZZZZZ	1.00	23:38																												
ZZZZZZ	5.00	23:41																												
ZZZZZZ	10.00	23:44																												

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METALS
-14-

ANALYSIS RUN LOG

Contract: R1911947

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: SB8 1-2

Instrument ID Number: Agilent ICP Method: P

Start Date: 12/13/2019 End Date: 12/14/2019

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	10.00	23:48																										
ZZZZZZ	10.00	23:51																										
ZZZZZZ	10.00	23:54																										
ZZZZZZ	10.00	23:57																										
ZZZZZZ	1.00	00:01																										
ZZZZZZ	1.00	00:04																										
ZZZZZZ	10.00	00:07																										
ZZZZZZ	10.00	00:10																										
ZZZZZZ	10.00	00:14																										
ZZZZZZ	1.00	00:17																										
ZZZZZZ	10.00	00:20																										
ZZZZZZ	10.00	00:23																										
ZZZZZZ	10.00	00:27																										
ZZZZZZ	10.00	00:30																										
ZZZZZZ	10.00	00:33																										
ZZZZZZ	10.00	00:36																										
ZZZZZZ	1.00	00:40																										
ZZZZZZ	1.00	00:43																										
ZZZZZZ	1.00	00:46																										
ZZZZZZ	10.00	00:49																										
ZZZZZZ	10.00	00:53																										
ZZZZZZ	10.00	00:56																										
ZZZZZZ	10.00	00:59																										
ZZZZZZ	10.00	01:02																										
ZZZZZZ	10.00	01:06																										
ZZZZZZ	10.00	01:09																										
CCV1	1.00	01:12		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB1	1.00	01:15		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CRDL1	1.00	01:19		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICS-A1	1.00	01:22		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICS-AB1	1.00	01:25		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV2	1.00	01:28		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB2	1.00	01:32		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	

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METALS
-14-

ANALYSIS RUN LOG

Contract: R1911947

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: SB8 1-2

Instrument ID Number: Agilent ICP Method: P

Start Date: 12/13/2019 End Date: 12/14/2019

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
PBS	1.00	01:35		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
LCSS	1.00	01:38		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	01:41																										
ZZZZZZ	1.00	01:44																										
ZZZZZZ	1.00	01:48																										
ZZZZZZ	1.00	01:51																										
ZZZZZZ	1.00	01:54																										
ZZZZZZ	1.00	01:57																										
ZZZZZZ	1.00	02:01																										
ZZZZZZ	1.00	02:04																										
CCV3	1.00	02:07		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB3	1.00	02:10		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	02:14																										
ZZZZZZ	1.00	02:17																										
ZZZZZZ	1.00	02:20																										
ZZZZZZ	5.00	02:23																										
SB8 1-2	1.00	02:27		X	X	X	X	X	X		X	X	X		X	X	X		X	X	X	X	X	X	X	X	
SB8 6-8	1.00	02:30		X	X	X	X	X	X		X	X	X		X	X	X		X	X	X	X	X	X	X	X	
SB11 1-2	1.00	02:33		X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X	X	X	X	X	
SB11 6-8	1.00	02:37		X	X	X	X	X	X		X	X	X		X	X	X		X	X	X	X	X	X	X	X	
SB11 6-8S	1.00	02:40		X	X	X	X	X	X		X	X	X		X	X	X		X	X	X	X	X	X	X	X	
SB11 6-8SD	1.00	02:43		X	X	X	X	X	X		X	X	X		X	X	X		X	X	X	X	X	X	X	X	
CCV4	1.00	02:46		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB4	1.00	02:50		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SB11 6-8A	1.00	02:53		X	X	X	X	X	X		X	X	X		X	X	X		X	X	X	X	X	X	X	X	
SB11 6-8L	5.00	02:56		X	X	X	X	X	X		X	X	X		X	X	X		X	X	X	X	X	X	X	X	
SB11 6-8 Dup	1.00	02:59		X	X		X	X	X		X	X	X		X	X	X		X	X	X	X	X	X	X	X	
SB9 2-4	1.00	03:03		X	X	X	X	X	X		X	X	X		X	X	X		X	X	X	X	X	X	X	X	
SB9 11-13	1.00	03:06		X	X	X	X	X	X		X	X	X		X	X	X		X	X	X	X	X	X	X	X	
SB10 2-4	1.00	03:09		X	X	X	X	X	X		X	X	X		X	X	X		X	X	X	X	X	X	X	X	
SB10 12-14	1.00	03:13		X	X	X	X	X	X		X	X	X		X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	10.00	03:16																										
ZZZZZZ	10.00	03:19																										

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METALS
-14-

ANALYSIS RUN LOG

Contract: R1911947

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: SB8 1-2

Instrument ID Number: Agilent ICP Method: P

Start Date: 12/13/2019 End Date: 12/14/2019

Sample ID.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	10.00	03:22																												
CCV5	1.00	03:26		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB5	1.00	03:29		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	10.00	03:32																												
ZZZZZZ	10.00	03:35																												
ZZZZZZ	10.00	03:39																												
ZZZZZZ	10.00	03:42																												
ZZZZZZ	10.00	03:45																												
ZZZZZZ	10.00	03:49																												
ZZZZZZ	10.00	03:52																												
ZZZZZZ	10.00	03:55																												
ZZZZZZ	10.00	03:58																												
SB8 1-2	10.00	04:02								X				X																
CCV6	1.00	04:05		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB6	1.00	04:08		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SB8 6-8	10.00	04:11								X				X																
SB11 1-2	10.00	04:15												X																
SB11 6-8	10.00	04:18								X				X																
SB11 6-8S	10.00	04:21								X				X																
SB11 6-8SD	10.00	04:24								X				X																
SB11 6-8A	10.00	04:28								X				X																
SB11 6-8L	10.00	04:31								X				X																
SB11 6-8 Dup	10.00	04:34				X				X				X																
SB9 2-4	10.00	04:38								X				X																
SB9 11-13	10.00	04:41								X				X																
CCV7	1.00	04:44		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB7	1.00	04:47		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SB10 2-4	10.00	04:51								X				X																
SB10 12-14	10.00	04:54								X				X																
CCV8	1.00	04:57		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB8	1.00	05:00		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CRDL2	1.00	05:04		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICS-A2	1.00	05:07		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS
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ANALYSIS RUN LOG

Contract: R1911947

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: SB8 1-2

Instrument ID Number: Agilent ICP Method: P

Start Date: 12/13/2019 End Date: 12/14/2019

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ICS-AB2	1.00	05:10		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV9	1.00	05:13		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB9	1.00	05:17		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	

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METALS
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ANALYSIS RUN LOG

Contract: R1911947

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: SB8 1-2

Instrument ID Number: PE FAA/CVAA Method: CV

Start Date: 12/12/2019 End Date: 12/12/2019

Sample ID.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
Calib Blank	1.00	10:23																X									
0.2ppb std	1.00	10:25																X									
0.5ppb std	1.00	10:28																X									
1.0ppb std	1.00	10:31																X									
2.0ppb std	1.00	10:33																X									
5.0ppb std	1.00	10:36																X									
10.0ppb std	1.00	10:38																X									
ICV1	1.00	10:41																X									
ICB1	1.00	10:43																X									
ZZZZZZ	1.00	10:46																									
ZZZZZZ	1.00	10:48																									
ZZZZZZ	1.00	10:51																									
ZZZZZZ	1.00	10:53																									
ZZZZZZ	1.00	10:56																									
ZZZZZZ	1.00	10:58																									
ZZZZZZ	1.00	11:01																									
ZZZZZZ	1.00	11:04																									
ZZZZZZ	1.00	11:06																									
ZZZZZZ	1.00	11:09																									
ZZZZZZ	1.00	11:11																									
ZZZZZZ	1.00	11:14																									
ZZZZZZ	1.00	11:16																									
ZZZZZZ	1.00	11:19																									
ZZZZZZ	1.00	11:21																									
ZZZZZZ	1.00	11:24																									
ZZZZZZ	1.00	11:26																									
ZZZZZZ	1.00	11:29																									
ZZZZZZ	1.00	11:32																									
ZZZZZZ	1.00	11:34																									
ZZZZZZ	1.00	11:37																									
ZZZZZZ	1.00	11:39																									
ZZZZZZ	1.00	11:42																									
ZZZZZZ	1.00	11:44																									

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METALS
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ANALYSIS RUN LOG

Contract: R1911947

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: SB8 1-2

Instrument ID Number: PE FAA/CVAA Method: CV

Start Date: 12/12/2019 End Date: 12/12/2019

Sample ID.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
ZZZZZZ	1.00	11:47																												
CCV1	1.00	11:49																X												
CCB1	1.00	11:52																X												
ZZZZZZ	1.00	11:54																												
ZZZZZZ	1.00	11:57																												
ZZZZZZ	1.00	12:00																												
ZZZZZZ	1.00	12:02																												
CRDL1	1.00	12:05																X												
CCV2	1.00	12:07																X												
CCB2	1.00	12:10																X												
PBS	1.00	12:12																X												
LCSS	1.00	12:15																X												
ZZZZZZ	1.00	12:17																												
ZZZZZZ	1.00	12:20																												
ZZZZZZ	1.00	12:22																												
ZZZZZZ	1.00	12:25																												
ZZZZZZ	1.00	12:28																												
ZZZZZZ	1.00	12:30																												
ZZZZZZ	1.00	12:33																												
ZZZZZZ	1.00	12:35																												
CCV3	1.00	12:38																X												
CCB3	1.00	12:40																X												
ZZZZZZ	1.00	12:43																												
ZZZZZZ	1.00	12:45																												
ZZZZZZ	1.00	12:48																												
SB8 1-2	1.00	12:51																X												
SB8 6-8	1.00	12:53																X												
SB11 1-2	1.00	12:56																X												
SB11 6-8	1.00	12:58																X												
SB11 6-8S	1.00	13:01																X												
SB11 6-8SD	1.00	13:03																X												
SB11 6-8 Dup	1.00	13:06																X												
CCV4	1.00	13:08																X												

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METALS
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ANALYSIS RUN LOG

Contract: R1911947

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: SB8 1-2

Instrument ID Number: PE FAA/CVAA Method: CV

Start Date: 12/12/2019 End Date: 12/12/2019

Sample ID.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCB4	1.00	13:11																X									
SB9 2-4	1.00	13:14																X									
SB9 11-13	1.00	13:16																X									
SB10 2-4	1.00	13:19																X									
SB10 12-14	1.00	13:21																X									
CRDL2	1.00	13:24																X									
CCV5	1.00	13:26																X									
CCB5	1.00	13:29																X									

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General Chemistry

ALS Environmental—Rochester Laboratory
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Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	Dry
Lab Code:	R1911947-MB		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	**0.11 J**	mg/Kg	0.30	0.05	1	12/13/19 17:49	12/12/19	

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19
		Date Analyzed:	12/13/19
		Date Extracted:	12/12/19

Duplicate Matrix Spike Summary
Cyanide, Total

Sample Name:	SB11 6-8	**Units:**	mg/Kg
Lab Code:	R1911947-004	**Basis:**	Dry
Analysis Method:	9012B		
Prep Method:	Method		

		Matrix Spike R1911947-004MS			Duplicate Matrix Spike R1911947-004DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Cyanide, Total	0.25 U	2.11	2.53	83	1.23	2.35	52	10-159	53*	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19
		Date Analyzed:	12/11/19

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	SB11 6-8	**Units:**	Percent
Lab Code:	R1911947-004	**Basis:**	As Received

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Sample R1911947-004DUP Result	Average	RPD	RPD Limit
Total Solids	ALS SOP	-	-	88.8	88.4	88.6	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

Service Request: R1911947
Date Analyzed: 12/13/19

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/Kg
Basis: Dry

Lab Control Sample
R1911947-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Cyanide, Total	9012B	2.76	3.00	92	85-115

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Soil

Service Request: R1911947
Date Analyzed: 12/13/19

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/Kg
Basis: Dry

Lab Control Sample
R1911947-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Cyanide, Total	9012B	16.1	18.0	89	85-115

Client: Leader Professional Services, Inc. **Service Request:**R1911947
Project: Tonawanda Bisonite Paint

Continuing Calibration Blank (CCB) Summary
Cyanide, Total

Analysis Method: 9012B **Units:**mg/Kg

	Analysis Lot	Lab Code	Date Analyzed	MRL	MDL	Result	Q
CCB1	663386	RQ1914599-02	12/13/19 17:43	0.30	0.05	0.30	U
CCB2	663386	RQ1914599-04	12/13/19 17:53	0.30	0.05	0.07	J
CCB3	663386	RQ1914599-06	12/13/19 18:02	0.30	0.05	0.30	U
CCB4	663386	RQ1914599-08	12/13/19 18:30	0.30	0.05	0.30	U
CCB5	663386	RQ1914599-09	12/13/19 18:40	0.30	0.05	0.30	U
CCB6	663386	RQ1914599-11	12/13/19 19:36	0.30	0.05	0.30	U
CCB7	663386	RQ1914599-13	12/13/19 19:40	0.30	0.05	0.30	U

Client: Leader Professional Services, Inc. **Service Request:** R1911947
Project: Tonawanda Bisonite Paint

Continuing Calibration Verification (CCV) Summary

Cyanide, Total

Analysis Method: 9012B **Units:** mg/L

	Analysis Lot	Lab Code	Date Analyzed	True Value	Measured Value	Percent Recovery	Acceptance Limits
CCV1	663386	RQ1914599-01	12/13/19 17:42	0.500	0.533	107	85-115
CCV2	663386	RQ1914599-03	12/13/19 17:52	0.500	0.526	105	85-115
CCV3	663386	RQ1914599-05	12/13/19 18:01	0.500	0.524	105	85-115
CCV4	663386	RQ1914599-07	12/13/19 18:30	0.500	0.542	108	85-115
CCV5	663386	RQ1914599-10	12/13/19 18:39	0.500	0.537	107	85-115
CCV6	663386	RQ1914599-12	12/13/19 19:35	0.500	0.459	92	85-115
CCV7	663386	RQ1914599-14	12/13/19 19:39	0.500	0.459	92	85-115

Raw Data

ALS Environmental—Rochester Laboratory
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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
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Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 09:15
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB8 1-2	**Units:**	ug/Kg
Lab Code:	R1911947-001	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	4.1 U	4.1	0.17	.69	12/12/19 17:33	
1,1,2,2-Tetrachloroethane	4.1 U	4.1	0.17	.69	12/12/19 17:33	
1,1,2-Trichloroethane	4.1 U	4.1	0.17	.69	12/12/19 17:33	
1,1,2-Trichloro-1,2,2-trifluoroethane	4.1 U	4.1	0.17	.69	12/12/19 17:33	
1,1-Dichloroethane (1,1-DCA)	4.1 U	4.1	0.17	.69	12/12/19 17:33	
1,1-Dichloroethene (1,1-DCE)	4.1 U	4.1	0.24	.69	12/12/19 17:33	
1,2,3-Trichlorobenzene	4.1 U	4.1	0.43	.69	12/12/19 17:33	
1,2,4-Trichlorobenzene	4.1 U	4.1	0.35	.69	12/12/19 17:33	
1,2-Dibromo-3-chloropropane (DBCP)	4.1 U	4.1	0.24	.69	12/12/19 17:33	
1,2-Dibromoethane	4.1 U	4.1	0.17	.69	12/12/19 17:33	
1,2-Dichlorobenzene	4.1 U	4.1	0.17	.69	12/12/19 17:33	
1,2-Dichloroethane	4.1 U	4.1	0.17	.69	12/12/19 17:33	
1,2-Dichloropropane	4.1 U	4.1	0.17	.69	12/12/19 17:33	
1,3-Dichlorobenzene	4.1 U	4.1	0.17	.69	12/12/19 17:33	
1,4-Dichlorobenzene	4.1 U	4.1	0.19	.69	12/12/19 17:33	
1,4-Dioxane	82 U	82	17	.69	12/12/19 17:33	
2-Butanone (MEK)	4.1 U	4.1	1.7	.69	12/12/19 17:33	
2-Hexanone	4.1 U	4.1	0.30	.69	12/12/19 17:33	
4-Methyl-2-pentanone	4.1 U	4.1	0.19	.69	12/12/19 17:33	
Acetone	**8.8**	4.1	3.9	.69	12/12/19 17:33	
Benzene	4.1 U	4.1	0.17	.69	12/12/19 17:33	
Bromochloromethane	4.1 U	4.1	0.17	.69	12/12/19 17:33	
Bromodichloromethane	4.1 U	4.1	0.17	.69	12/12/19 17:33	
Bromoform	4.1 U	4.1	0.42	.69	12/12/19 17:33	
Bromomethane	4.1 U	4.1	1.8	.69	12/12/19 17:33	
Carbon Disulfide	4.1 U	4.1	0.24	.69	12/12/19 17:33	
Carbon Tetrachloride	4.1 U	4.1	0.22	.69	12/12/19 17:33	
Chlorobenzene	4.1 U	4.1	0.17	.69	12/12/19 17:33	
Chloroethane	4.1 U	4.1	0.17	.69	12/12/19 17:33	
Chloroform	4.1 U	4.1	0.17	.69	12/12/19 17:33	
Chloromethane	4.1 U	4.1	1.2	.69	12/12/19 17:33	
Cyclohexane	4.1 U	4.1	0.22	.69	12/12/19 17:33	
Dibromochloromethane	4.1 U	4.1	0.17	.69	12/12/19 17:33	
Dichlorodifluoromethane (CFC 12)	4.1 U	4.1	0.28	.69	12/12/19 17:33	
Dichloromethane	4.1 U	4.1	2.3	.69	12/12/19 17:33	
Ethylbenzene	**0.37 J**	4.1	0.17	.69	12/12/19 17:33	
Isopropylbenzene (Cumene)	4.1 U	4.1	0.17	.69	12/12/19 17:33	
Methyl Acetate	**1.7 J**	4.1	0.69	.69	12/12/19 17:33	
Methyl tert-Butyl Ether	**0.22 J**	4.1	0.17	.69	12/12/19 17:33	
Methylcyclohexane	4.1 U	4.1	0.26	.69	12/12/19 17:33	
Styrene	4.1 U	4.1	0.17	.69	12/12/19 17:33	
Tetrachloroethene (PCE)	4.1 U	4.1	0.19	.69	12/12/19 17:33	
Toluene	**0.50 J**	4.1	0.17	.69	12/12/19 17:33	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 09:15
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB8 1-2	**Units:**	ug/Kg
Lab Code:	R1911947-001	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	4.1 U	4.1	0.19	.69	12/12/19 17:33	
Trichlorofluoromethane (CFC 11)	4.1 U	4.1	0.22	.69	12/12/19 17:33	
Vinyl Chloride	4.1 U	4.1	0.38	.69	12/12/19 17:33	
cis-1,2-Dichloroethene	4.1 U	4.1	0.17	.69	12/12/19 17:33	
cis-1,3-Dichloropropene	4.1 U	4.1	0.17	.69	12/12/19 17:33	
m,p-Xylenes	**1.6 J**	8.2	0.31	.69	12/12/19 17:33	
o-Xylene	**0.35 J**	4.1	0.17	.69	12/12/19 17:33	
trans-1,2-Dichloroethene	4.1 U	4.1	0.17	.69	12/12/19 17:33	
trans-1,3-Dichloropropene	4.1 U	4.1	0.17	.69	12/12/19 17:33	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	79	31 - 154	12/12/19 17:33	
Dibromofluoromethane	95	63 - 138	12/12/19 17:33	
Toluene-d8	96	66 - 138	12/12/19 17:33	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
000534-22-5	Furan, 2-methyl-	3.38	5.6	JN

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 09:40
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB8 6-8	**Units:**	ug/Kg
Lab Code:	R1911947-002	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	3.4	U	3.4	0.14	.6	12/12/19 17:56	
1,1,2,2-Tetrachloroethane	3.4	U	3.4	0.14	.6	12/12/19 17:56	
1,1,2-Trichloroethane	3.4	U	3.4	0.14	.6	12/12/19 17:56	
1,1,2-Trichloro-1,2,2-trifluoroethane	3.4	U	3.4	0.14	.6	12/12/19 17:56	
1,1-Dichloroethane (1,1-DCA)	3.4	U	3.4	0.14	.6	12/12/19 17:56	
1,1-Dichloroethene (1,1-DCE)	3.4	U	3.4	0.20	.6	12/12/19 17:56	
1,2,3-Trichlorobenzene	3.4	U	3.4	0.36	.6	12/12/19 17:56	
1,2,4-Trichlorobenzene	3.4	U	3.4	0.29	.6	12/12/19 17:56	
1,2-Dibromo-3-chloropropane (DBCP)	3.4	U	3.4	0.20	.6	12/12/19 17:56	
1,2-Dibromoethane	3.4	U	3.4	0.14	.6	12/12/19 17:56	
1,2-Dichlorobenzene	3.4	U	3.4	0.14	.6	12/12/19 17:56	
1,2-Dichloroethane	3.4	U	3.4	0.14	.6	12/12/19 17:56	
1,2-Dichloropropane	3.4	U	3.4	0.14	.6	12/12/19 17:56	
1,3-Dichlorobenzene	3.4	U	3.4	0.14	.6	12/12/19 17:56	
1,4-Dichlorobenzene	3.4	U	3.4	0.15	.6	12/12/19 17:56	
1,4-Dioxane	68	U	68	14	.6	12/12/19 17:56	
2-Butanone (MEK)	**3.9**		3.4	1.4	.6	12/12/19 17:56	
2-Hexanone	3.4	U	3.4	0.25	.6	12/12/19 17:56	
4-Methyl-2-pentanone	3.4	U	3.4	0.16	.6	12/12/19 17:56	
Acetone	**190**	**E**	3.4	3.3	.6	12/12/19 17:56	
Benzene	3.4	U	3.4	0.14	.6	12/12/19 17:56	
Bromochloromethane	3.4	U	3.4	0.14	.6	12/12/19 17:56	
Bromodichloromethane	3.4	U	3.4	0.14	.6	12/12/19 17:56	
Bromoform	3.4	U	3.4	0.35	.6	12/12/19 17:56	
Bromomethane	3.4	U	3.4	1.5	.6	12/12/19 17:56	
Carbon Disulfide	3.4	U	3.4	0.20	.6	12/12/19 17:56	
Carbon Tetrachloride	3.4	U	3.4	0.18	.6	12/12/19 17:56	
Chlorobenzene	3.4	U	3.4	0.14	.6	12/12/19 17:56	
Chloroethane	3.4	U	3.4	0.14	.6	12/12/19 17:56	
Chloroform	3.4	U	3.4	0.14	.6	12/12/19 17:56	
Chloromethane	3.4	U	3.4	0.96	.6	12/12/19 17:56	
Cyclohexane	3.4	U	3.4	0.18	.6	12/12/19 17:56	
Dibromochloromethane	3.4	U	3.4	0.14	.6	12/12/19 17:56	
Dichlorodifluoromethane (CFC 12)	3.4	U	3.4	0.23	.6	12/12/19 17:56	
Dichloromethane	3.4	U	3.4	2.0	.6	12/12/19 17:56	
Ethylbenzene	**0.23**	**J**	3.4	0.14	.6	12/12/19 17:56	
Isopropylbenzene (Cumene)	3.4	U	3.4	0.14	.6	12/12/19 17:56	
Methyl Acetate	**55**		3.4	0.58	.6	12/12/19 17:56	
Methyl tert-Butyl Ether	**0.27**	**J**	3.4	0.14	.6	12/12/19 17:56	
Methylcyclohexane	3.4	U	3.4	0.22	.6	12/12/19 17:56	
Styrene	3.4	U	3.4	0.14	.6	12/12/19 17:56	
Tetrachloroethene (PCE)	3.4	U	3.4	0.16	.6	12/12/19 17:56	
Toluene	**0.41**	**J**	3.4	0.14	.6	12/12/19 17:56	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 09:40
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB8 6-8	**Units:**	ug/Kg
Lab Code:	R1911947-002	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	3.4 U	3.4	0.15	.6	12/12/19 17:56	
Trichlorofluoromethane (CFC 11)	3.4 U	3.4	0.18	.6	12/12/19 17:56	
Vinyl Chloride	3.4 U	3.4	0.32	.6	12/12/19 17:56	
cis-1,2-Dichloroethene	3.4 U	3.4	0.14	.6	12/12/19 17:56	
cis-1,3-Dichloropropene	3.4 U	3.4	0.14	.6	12/12/19 17:56	
m,p-Xylenes	**0.93 J**	6.8	0.26	.6	12/12/19 17:56	
o-Xylene	**0.20 J**	3.4	0.14	.6	12/12/19 17:56	
trans-1,2-Dichloroethene	3.4 U	3.4	0.14	.6	12/12/19 17:56	
trans-1,3-Dichloropropene	3.4 U	3.4	0.14	.6	12/12/19 17:56	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	31 - 154	12/12/19 17:56	
Dibromofluoromethane	92	63 - 138	12/12/19 17:56	
Toluene-d8	98	66 - 138	12/12/19 17:56	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
000109-66-0	Pentane	1.69	4.9	JN
000107-83-5	Pentane, 2-methyl-	2.42	7.9	JN
	unknown	2.51	3.9	J
000141-78-6	Ethyl Acetate	3.95	6.7	JN

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 09:40
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB8 6-8	**Units:**	ug/Kg
Lab Code:	R1911947-002	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	390 U	390	16	68.5	12/16/19 14:43	
1,1,2,2-Tetrachloroethane	390 U	390	16	68.5	12/16/19 14:43	
1,1,2-Trichloroethane	390 U	390	16	68.5	12/16/19 14:43	
1,1,2-Trichloro-1,2,2-trifluoroethane	390 U	390	16	68.5	12/16/19 14:43	
1,1-Dichloroethane (1,1-DCA)	390 U	390	16	68.5	12/16/19 14:43	
1,1-Dichloroethene (1,1-DCE)	390 U	390	23	68.5	12/16/19 14:43	
1,2,3-Trichlorobenzene	390 U	390	41	68.5	12/16/19 14:43	
1,2,4-Trichlorobenzene	390 U	390	33	68.5	12/16/19 14:43	
1,2-Dibromo-3-chloropropane (DBCP)	390 U	390	23	68.5	12/16/19 14:43	
1,2-Dibromoethane	390 U	390	16	68.5	12/16/19 14:43	
1,2-Dichlorobenzene	390 U	390	16	68.5	12/16/19 14:43	
1,2-Dichloroethane	390 U	390	16	68.5	12/16/19 14:43	
1,2-Dichloropropane	390 U	390	16	68.5	12/16/19 14:43	
1,3-Dichlorobenzene	390 U	390	16	68.5	12/16/19 14:43	
1,4-Dichlorobenzene	390 U	390	18	68.5	12/16/19 14:43	
1,4-Dioxane	7800 U	7800	1600	68.5	12/16/19 14:43	
2-Butanone (MEK)	390 U	390	160	68.5	12/16/19 14:43	
2-Hexanone	390 U	390	29	68.5	12/16/19 14:43	
4-Methyl-2-pentanone	390 U	390	18	68.5	12/16/19 14:43	
Acetone	390 U	390	370	68.5	12/16/19 14:43	
Benzene	390 U	390	16	68.5	12/16/19 14:43	
Bromochloromethane	390 U	390	16	68.5	12/16/19 14:43	
Bromodichloromethane	390 U	390	16	68.5	12/16/19 14:43	
Bromoform	390 U	390	39	68.5	12/16/19 14:43	
Bromomethane	390 U	390	170	68.5	12/16/19 14:43	
Carbon Disulfide	390 U	390	23	68.5	12/16/19 14:43	
Carbon Tetrachloride	390 U	390	21	68.5	12/16/19 14:43	
Chlorobenzene	390 U	390	16	68.5	12/16/19 14:43	
Chloroethane	390 U	390	16	68.5	12/16/19 14:43	
Chloroform	390 U	390	16	68.5	12/16/19 14:43	
Chloromethane	390 U	390	110	68.5	12/16/19 14:43	
Cyclohexane	390 U	390	21	68.5	12/16/19 14:43	
Dibromochloromethane	390 U	390	16	68.5	12/16/19 14:43	
Dichlorodifluoromethane (CFC 12)	390 U	390	26	68.5	12/16/19 14:43	
Dichloromethane	390 U	390	220	68.5	12/16/19 14:43	
Ethylbenzene	390 U	390	16	68.5	12/16/19 14:43	
Isopropylbenzene (Cumene)	390 U	390	16	68.5	12/16/19 14:43	
Methyl Acetate	**160 DJ**	390	66	68.5	12/16/19 14:43	
Methyl tert-Butyl Ether	390 U	390	16	68.5	12/16/19 14:43	
Methylcyclohexane	390 U	390	25	68.5	12/16/19 14:43	
Styrene	390 U	390	16	68.5	12/16/19 14:43	
Tetrachloroethene (PCE)	390 U	390	18	68.5	12/16/19 14:43	
Toluene	390 U	390	16	68.5	12/16/19 14:43	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 09:40
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB8 6-8	**Units:**	ug/Kg
Lab Code:	R1911947-002	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	390 U	390	18	68.5	12/16/19 14:43	
Trichlorofluoromethane (CFC 11)	390 U	390	21	68.5	12/16/19 14:43	
Vinyl Chloride	390 U	390	36	68.5	12/16/19 14:43	
cis-1,2-Dichloroethene	390 U	390	16	68.5	12/16/19 14:43	
cis-1,3-Dichloropropene	390 U	390	16	68.5	12/16/19 14:43	
m,p-Xylenes	780 U	780	29	68.5	12/16/19 14:43	
o-Xylene	390 U	390	16	68.5	12/16/19 14:43	
trans-1,2-Dichloroethene	390 U	390	16	68.5	12/16/19 14:43	
trans-1,3-Dichloropropene	390 U	390	16	68.5	12/16/19 14:43	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	89	31 - 154	12/16/19 14:43	
Dibromofluoromethane	85	63 - 138	12/16/19 14:43	
Toluene-d8	94	66 - 138	12/16/19 14:43	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB11 1-2	**Units:**	ug/Kg
Lab Code:	R1911947-003	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	3.2	U	3.2	0.13	.51	12/12/19 18:19	
1,1,2,2-Tetrachloroethane	3.2	U	3.2	0.13	.51	12/12/19 18:19	
1,1,2-Trichloroethane	3.2	U	3.2	0.13	.51	12/12/19 18:19	
1,1,2-Trichloro-1,2,2-trifluoroethane	3.2	U	3.2	0.13	.51	12/12/19 18:19	
1,1-Dichloroethane (1,1-DCA)	3.2	U	3.2	0.13	.51	12/12/19 18:19	
1,1-Dichloroethene (1,1-DCE)	3.2	U	3.2	0.19	.51	12/12/19 18:19	
1,2,3-Trichlorobenzene	3.2	U	3.2	0.34	.51	12/12/19 18:19	
1,2,4-Trichlorobenzene	3.2	U	3.2	0.27	.51	12/12/19 18:19	
1,2-Dibromo-3-chloropropane (DBCP)	3.2	U	3.2	0.19	.51	12/12/19 18:19	
1,2-Dibromoethane	3.2	U	3.2	0.13	.51	12/12/19 18:19	
1,2-Dichlorobenzene	3.2	U	3.2	0.13	.51	12/12/19 18:19	
1,2-Dichloroethane	3.2	U	3.2	0.13	.51	12/12/19 18:19	
1,2-Dichloropropane	3.2	U	3.2	0.13	.51	12/12/19 18:19	
1,3-Dichlorobenzene	3.2	U	3.2	0.13	.51	12/12/19 18:19	
1,4-Dichlorobenzene	3.2	U	3.2	0.15	.51	12/12/19 18:19	
1,4-Dioxane	64	U	64	13	.51	12/12/19 18:19	
2-Butanone (MEK)	**46**		3.2	1.3	.51	12/12/19 18:19	
2-Hexanone	3.2	U	3.2	0.24	.51	12/12/19 18:19	
4-Methyl-2-pentanone	3.2	U	3.2	0.15	.51	12/12/19 18:19	
Acetone	**320**	**E**	3.2	3.1	.51	12/12/19 18:19	
Benzene	**11**		3.2	0.13	.51	12/12/19 18:19	
Bromochloromethane	3.2	U	3.2	0.13	.51	12/12/19 18:19	
Bromodichloromethane	3.2	U	3.2	0.13	.51	12/12/19 18:19	
Bromoform	3.2	U	3.2	0.33	.51	12/12/19 18:19	
Bromomethane	3.2	U	3.2	1.4	.51	12/12/19 18:19	
Carbon Disulfide	**0.44**	**J**	3.2	0.19	.51	12/12/19 18:19	
Carbon Tetrachloride	3.2	U	3.2	0.17	.51	12/12/19 18:19	
Chlorobenzene	**0.26**	**J**	3.2	0.13	.51	12/12/19 18:19	
Chloroethane	3.2	U	3.2	0.13	.51	12/12/19 18:19	
Chloroform	3.2	U	3.2	0.13	.51	12/12/19 18:19	
Chloromethane	3.2	U	3.2	0.90	.51	12/12/19 18:19	
Cyclohexane	**1.6**	**J**	3.2	0.17	.51	12/12/19 18:19	
Dibromochloromethane	3.2	U	3.2	0.13	.51	12/12/19 18:19	
Dichlorodifluoromethane (CFC 12)	3.2	U	3.2	0.22	.51	12/12/19 18:19	
Dichloromethane	3.2	U	3.2	1.8	.51	12/12/19 18:19	
Ethylbenzene	**0.21**	**J**	3.2	0.13	.51	12/12/19 18:19	
Isopropylbenzene (Cumene)	**3.8**		3.2	0.13	.51	12/12/19 18:19	
Methyl Acetate	**24**		3.2	0.54	.51	12/12/19 18:19	
Methyl tert-Butyl Ether	**0.33**	**J**	3.2	0.13	.51	12/12/19 18:19	
Methylcyclohexane	**7.2**		3.2	0.20	.51	12/12/19 18:19	
Styrene	3.2	U	3.2	0.13	.51	12/12/19 18:19	
Tetrachloroethene (PCE)	3.2	U	3.2	0.15	.51	12/12/19 18:19	
Toluene	**0.77**	**J**	3.2	0.13	.51	12/12/19 18:19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB11 1-2	**Units:**	ug/Kg
Lab Code:	R1911947-003	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	3.2 U	3.2	0.15	.51	12/12/19 18:19	
Trichlorofluoromethane (CFC 11)	3.2 U	3.2	0.17	.51	12/12/19 18:19	
Vinyl Chloride	**0.37 J**	3.2	0.30	.51	12/12/19 18:19	
cis-1,2-Dichloroethene	**0.35 J**	3.2	0.13	.51	12/12/19 18:19	
cis-1,3-Dichloropropene	3.2 U	3.2	0.13	.51	12/12/19 18:19	
m,p-Xylenes	**11**	6.4	0.24	.51	12/12/19 18:19	
o-Xylene	**2.1 J**	3.2	0.13	.51	12/12/19 18:19	
trans-1,2-Dichloroethene	3.2 U	3.2	0.13	.51	12/12/19 18:19	
trans-1,3-Dichloropropene	3.2 U	3.2	0.13	.51	12/12/19 18:19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	79	31 - 154	12/12/19 18:19	
Dibromofluoromethane	93	63 - 138	12/12/19 18:19	
Toluene-d8	98	66 - 138	12/12/19 18:19	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
003728-55-0	1-Ethyl-3-methylcyclohexane (c,t)	10.19	26	JN
	unknown	10.39	13	J
001678-92-8	Cyclohexane, propyl-	10.48	20	JN
	unknown	10.55	7.6	J
	unknown	10.78	15	J
006783-92-2	Cyclohexane, 1,1,2,3-tetramethyl-	10.88	35	JN
	unknown	11.02	8.6	J
	unknown	11.06	13	J
	unknown	11.12	11	J
	unknown	11.17	9.3	J
	unknown	11.30	10	J
000611-14-3	Benzene, 1-ethyl-2-methyl-	11.45	25	JN
	unknown	11.66	9.3	J
	unknown	11.87	14	J
000493-02-7	Naphthalene, decahydro-, trans-	12.04	9.9	JN
000638-04-0	Cyclohexane, 1,3-dimethyl-, cis-	7.89	10	JN
	unknown	8.96	8.3	J
001678-91-7	Cyclohexane, ethyl-	9.02	10	JN
003073-66-3	Cyclohexane, 1,1,3-trimethyl-	9.08	9.3	JN
007667-60-9	Cyclohexane, 1,2,4-trimethyl-, (1.	9.33	11	JN

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB11 1-2	**Units:**	ug/Kg
Lab Code:	R1911947-003	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	560 U	560	23	89	12/16/19 15:05	
1,1,2,2-Tetrachloroethane	560 U	560	23	89	12/16/19 15:05	
1,1,2-Trichloroethane	560 U	560	23	89	12/16/19 15:05	
1,1,2-Trichloro-1,2,2-trifluoroethane	560 U	560	23	89	12/16/19 15:05	
1,1-Dichloroethane (1,1-DCA)	560 U	560	23	89	12/16/19 15:05	
1,1-Dichloroethene (1,1-DCE)	560 U	560	33	89	12/16/19 15:05	
1,2,3-Trichlorobenzene	560 U	560	59	89	12/16/19 15:05	
1,2,4-Trichlorobenzene	560 U	560	48	89	12/16/19 15:05	
1,2-Dibromo-3-chloropropane (DBCP)	560 U	560	33	89	12/16/19 15:05	
1,2-Dibromoethane	560 U	560	23	89	12/16/19 15:05	
1,2-Dichlorobenzene	560 U	560	23	89	12/16/19 15:05	
1,2-Dichloroethane	560 U	560	23	89	12/16/19 15:05	
1,2-Dichloropropane	560 U	560	23	89	12/16/19 15:05	
1,3-Dichlorobenzene	560 U	560	23	89	12/16/19 15:05	
1,4-Dichlorobenzene	560 U	560	25	89	12/16/19 15:05	
1,4-Dioxane	11000 U	11000	2300	89	12/16/19 15:05	
2-Butanone (MEK)	560 U	560	230	89	12/16/19 15:05	
2-Hexanone	560 U	560	41	89	12/16/19 15:05	
4-Methyl-2-pentanone	560 U	560	26	89	12/16/19 15:05	
Acetone	**810 D**	560	530	89	12/16/19 15:05	
Benzene	**120 DJ**	560	23	89	12/16/19 15:05	
Bromochloromethane	560 U	560	23	89	12/16/19 15:05	
Bromodichloromethane	560 U	560	23	89	12/16/19 15:05	
Bromoform	560 U	560	56	89	12/16/19 15:05	
Bromomethane	560 U	560	240	89	12/16/19 15:05	
Carbon Disulfide	560 U	560	33	89	12/16/19 15:05	
Carbon Tetrachloride	560 U	560	30	89	12/16/19 15:05	
Chlorobenzene	560 U	560	23	89	12/16/19 15:05	
Chloroethane	560 U	560	23	89	12/16/19 15:05	
Chloroform	560 U	560	23	89	12/16/19 15:05	
Chloromethane	560 U	560	160	89	12/16/19 15:05	
Cyclohexane	560 U	560	30	89	12/16/19 15:05	
Dibromochloromethane	560 U	560	23	89	12/16/19 15:05	
Dichlorodifluoromethane (CFC 12)	560 U	560	37	89	12/16/19 15:05	
Dichloromethane	560 U	560	320	89	12/16/19 15:05	
Ethylbenzene	**76 DJ**	560	23	89	12/16/19 15:05	
Isopropylbenzene (Cumene)	**68 DJ**	560	23	89	12/16/19 15:05	
Methyl Acetate	**680 D**	560	95	89	12/16/19 15:05	
Methyl tert-Butyl Ether	560 U	560	23	89	12/16/19 15:05	
Methylcyclohexane	**92 DJ**	560	35	89	12/16/19 15:05	
Styrene	560 U	560	23	89	12/16/19 15:05	
Tetrachloroethene (PCE)	560 U	560	26	89	12/16/19 15:05	
Toluene	**120 DJ**	560	23	89	12/16/19 15:05	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB11 1-2	**Units:**	ug/Kg
Lab Code:	R1911947-003	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	560 U	560	25	89	12/16/19 15:05	
Trichlorofluoromethane (CFC 11)	560 U	560	30	89	12/16/19 15:05	
Vinyl Chloride	560 U	560	52	89	12/16/19 15:05	
cis-1,2-Dichloroethene	560 U	560	23	89	12/16/19 15:05	
cis-1,3-Dichloropropene	560 U	560	23	89	12/16/19 15:05	
m,p-Xylenes	**510 DJ**	1100	42	89	12/16/19 15:05	
o-Xylene	**83 DJ**	560	23	89	12/16/19 15:05	
trans-1,2-Dichloroethene	560 U	560	23	89	12/16/19 15:05	
trans-1,3-Dichloropropene	560 U	560	23	89	12/16/19 15:05	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	31 - 154	12/16/19 15:05	
Dibromofluoromethane	83	63 - 138	12/16/19 15:05	
Toluene-d8	97	66 - 138	12/16/19 15:05	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	1.42	660	J

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB11 6-8	**Units:**	ug/Kg
Lab Code:	R1911947-004	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	3.8 U	3.8	0.16	.67	12/12/19 18:42	
1,1,2,2-Tetrachloroethane	3.8 U	3.8	0.16	.67	12/12/19 18:42	
1,1,2-Trichloroethane	3.8 U	3.8	0.16	.67	12/12/19 18:42	
1,1,2-Trichloro-1,2,2-trifluoroethane	3.8 U	3.8	0.16	.67	12/12/19 18:42	
1,1-Dichloroethane (1,1-DCA)	3.8 U	3.8	0.16	.67	12/12/19 18:42	
1,1-Dichloroethene (1,1-DCE)	3.8 U	3.8	0.22	.67	12/12/19 18:42	
1,2,3-Trichlorobenzene	3.8 U	3.8	0.40	.67	12/12/19 18:42	
1,2,4-Trichlorobenzene	3.8 U	3.8	0.32	.67	12/12/19 18:42	
1,2-Dibromo-3-chloropropane (DBCP)	3.8 U	3.8	0.22	.67	12/12/19 18:42	
1,2-Dibromoethane	3.8 U	3.8	0.16	.67	12/12/19 18:42	
1,2-Dichlorobenzene	3.8 U	3.8	0.16	.67	12/12/19 18:42	
1,2-Dichloroethane	3.8 U	3.8	0.16	.67	12/12/19 18:42	
1,2-Dichloropropane	3.8 U	3.8	0.16	.67	12/12/19 18:42	
1,3-Dichlorobenzene	3.8 U	3.8	0.16	.67	12/12/19 18:42	
1,4-Dichlorobenzene	3.8 U	3.8	0.17	.67	12/12/19 18:42	
1,4-Dioxane	75 U	75	16	.67	12/12/19 18:42	
2-Butanone (MEK)	3.8 U	3.8	1.6	.67	12/12/19 18:42	
2-Hexanone	3.8 U	3.8	0.28	.67	12/12/19 18:42	
4-Methyl-2-pentanone	3.8 U	3.8	0.18	.67	12/12/19 18:42	
Acetone	**6.7**	3.8	3.6	.67	12/12/19 18:42	
Benzene	3.8 U	3.8	0.16	.67	12/12/19 18:42	
Bromochloromethane	3.8 U	3.8	0.16	.67	12/12/19 18:42	
Bromodichloromethane	3.8 U	3.8	0.16	.67	12/12/19 18:42	
Bromoform	3.8 U	3.8	0.38	.67	12/12/19 18:42	
Bromomethane	3.8 U	3.8	1.6	.67	12/12/19 18:42	
Carbon Disulfide	3.8 U	3.8	0.22	.67	12/12/19 18:42	
Carbon Tetrachloride	3.8 U	3.8	0.20	.67	12/12/19 18:42	
Chlorobenzene	3.8 U	3.8	0.16	.67	12/12/19 18:42	
Chloroethane	3.8 U	3.8	0.16	.67	12/12/19 18:42	
Chloroform	3.8 U	3.8	0.16	.67	12/12/19 18:42	
Chloromethane	3.8 U	3.8	1.1	.67	12/12/19 18:42	
Cyclohexane	3.8 U	3.8	0.20	.67	12/12/19 18:42	
Dibromochloromethane	3.8 U	3.8	0.16	.67	12/12/19 18:42	
Dichlorodifluoromethane (CFC 12)	3.8 U	3.8	0.25	.67	12/12/19 18:42	
Dichloromethane	3.8 U	3.8	2.2	.67	12/12/19 18:42	
Ethylbenzene	3.8 U	3.8	0.16	.67	12/12/19 18:42	
Isopropylbenzene (Cumene)	3.8 U	3.8	0.16	.67	12/12/19 18:42	
Methyl Acetate	3.8 U	3.8	0.64	.67	12/12/19 18:42	
Methyl tert-Butyl Ether	3.8 U	3.8	0.16	.67	12/12/19 18:42	
Methylcyclohexane	3.8 U	3.8	0.24	.67	12/12/19 18:42	
Styrene	3.8 U	3.8	0.16	.67	12/12/19 18:42	
Tetrachloroethene (PCE)	3.8 U	3.8	0.18	.67	12/12/19 18:42	
Toluene	**0.22 J**	3.8	0.16	.67	12/12/19 18:42	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB11 6-8	**Units:**	ug/Kg
Lab Code:	R1911947-004	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	3.8 U	3.8	0.17	.67	12/12/19 18:42	
Trichlorofluoromethane (CFC 11)	3.8 U	3.8	0.20	.67	12/12/19 18:42	
Vinyl Chloride	3.8 U	3.8	0.35	.67	12/12/19 18:42	
cis-1,2-Dichloroethene	3.8 U	3.8	0.16	.67	12/12/19 18:42	
cis-1,3-Dichloropropene	3.8 U	3.8	0.16	.67	12/12/19 18:42	
m,p-Xylenes	7.5 U	7.5	0.28	.67	12/12/19 18:42	
o-Xylene	3.8 U	3.8	0.16	.67	12/12/19 18:42	
trans-1,2-Dichloroethene	3.8 U	3.8	0.16	.67	12/12/19 18:42	
trans-1,3-Dichloropropene	3.8 U	3.8	0.16	.67	12/12/19 18:42	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	31 - 154	12/12/19 18:42	
Dibromofluoromethane	93	63 - 138	12/12/19 18:42	
Toluene-d8	99	66 - 138	12/12/19 18:42	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB11 6-8 Dup	**Units:**	ug/Kg
Lab Code:	R1911947-005	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	3.5 U	3.5	0.15	.63	12/12/19 19:05	
1,1,2,2-Tetrachloroethane	3.5 U	3.5	0.15	.63	12/12/19 19:05	
1,1,2-Trichloroethane	3.5 U	3.5	0.15	.63	12/12/19 19:05	
1,1,2-Trichloro-1,2,2-trifluoroethane	3.5 U	3.5	0.15	.63	12/12/19 19:05	
1,1-Dichloroethane (1,1-DCA)	3.5 U	3.5	0.15	.63	12/12/19 19:05	
1,1-Dichloroethene (1,1-DCE)	3.5 U	3.5	0.21	.63	12/12/19 19:05	
1,2,3-Trichlorobenzene	3.5 U	3.5	0.37	.63	12/12/19 19:05	
1,2,4-Trichlorobenzene	3.5 U	3.5	0.30	.63	12/12/19 19:05	
1,2-Dibromo-3-chloropropane (DBCP)	3.5 U	3.5	0.21	.63	12/12/19 19:05	
1,2-Dibromoethane	3.5 U	3.5	0.15	.63	12/12/19 19:05	
1,2-Dichlorobenzene	3.5 U	3.5	0.15	.63	12/12/19 19:05	
1,2-Dichloroethane	3.5 U	3.5	0.15	.63	12/12/19 19:05	
1,2-Dichloropropane	3.5 U	3.5	0.15	.63	12/12/19 19:05	
1,3-Dichlorobenzene	3.5 U	3.5	0.15	.63	12/12/19 19:05	
1,4-Dichlorobenzene	3.5 U	3.5	0.16	.63	12/12/19 19:05	
1,4-Dioxane	70 U	70	15	.63	12/12/19 19:05	
2-Butanone (MEK)	**2.2 J**	3.5	1.5	.63	12/12/19 19:05	
2-Hexanone	3.5 U	3.5	0.26	.63	12/12/19 19:05	
4-Methyl-2-pentanone	3.5 U	3.5	0.17	.63	12/12/19 19:05	
Acetone	**71**	3.5	3.4	.63	12/12/19 19:05	
Benzene	3.5 U	3.5	0.15	.63	12/12/19 19:05	
Bromochloromethane	3.5 U	3.5	0.15	.63	12/12/19 19:05	
Bromodichloromethane	3.5 U	3.5	0.15	.63	12/12/19 19:05	
Bromoform	3.5 U	3.5	0.36	.63	12/12/19 19:05	
Bromomethane	3.5 U	3.5	1.5	.63	12/12/19 19:05	
Carbon Disulfide	3.5 U	3.5	0.21	.63	12/12/19 19:05	
Carbon Tetrachloride	3.5 U	3.5	0.19	.63	12/12/19 19:05	
Chlorobenzene	3.5 U	3.5	0.15	.63	12/12/19 19:05	
Chloroethane	3.5 U	3.5	0.15	.63	12/12/19 19:05	
Chloroform	3.5 U	3.5	0.15	.63	12/12/19 19:05	
Chloromethane	3.5 U	3.5	0.99	.63	12/12/19 19:05	
Cyclohexane	3.5 U	3.5	0.19	.63	12/12/19 19:05	
Dibromochloromethane	3.5 U	3.5	0.15	.63	12/12/19 19:05	
Dichlorodifluoromethane (CFC 12)	3.5 U	3.5	0.24	.63	12/12/19 19:05	
Dichloromethane	3.5 U	3.5	2.0	.63	12/12/19 19:05	
Ethylbenzene	3.5 U	3.5	0.15	.63	12/12/19 19:05	
Isopropylbenzene (Cumene)	3.5 U	3.5	0.15	.63	12/12/19 19:05	
Methyl Acetate	**30**	3.5	0.60	.63	12/12/19 19:05	
Methyl tert-Butyl Ether	**0.19 J**	3.5	0.15	.63	12/12/19 19:05	
Methylcyclohexane	3.5 U	3.5	0.22	.63	12/12/19 19:05	
Styrene	3.5 U	3.5	0.15	.63	12/12/19 19:05	
Tetrachloroethene (PCE)	3.5 U	3.5	0.17	.63	12/12/19 19:05	
Toluene	**0.46 J**	3.5	0.15	.63	12/12/19 19:05	

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB11 6-8 Dup	**Units:**	ug/Kg
Lab Code:	R1911947-005	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	3.5 U	3.5	0.16	.63	12/12/19 19:05	
Trichlorofluoromethane (CFC 11)	3.5 U	3.5	0.19	.63	12/12/19 19:05	
Vinyl Chloride	3.5 U	3.5	0.33	.63	12/12/19 19:05	
cis-1,2-Dichloroethene	3.5 U	3.5	0.15	.63	12/12/19 19:05	
cis-1,3-Dichloropropene	3.5 U	3.5	0.15	.63	12/12/19 19:05	
m,p-Xylenes	7.0 U	7.0	0.27	.63	12/12/19 19:05	
o-Xylene	3.5 U	3.5	0.15	.63	12/12/19 19:05	
trans-1,2-Dichloroethene	3.5 U	3.5	0.15	.63	12/12/19 19:05	
trans-1,3-Dichloropropene	3.5 U	3.5	0.15	.63	12/12/19 19:05	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	86	31 - 154	12/12/19 19:05	
Dibromofluoromethane	93	63 - 138	12/12/19 19:05	
Toluene-d8	97	66 - 138	12/12/19 19:05	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
000109-66-0	Pentane	1.69	4.3	JN
	unknown	2.42	6.8	J

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 11:40
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB9 2-4	**Units:**	ug/Kg
Lab Code:	R1911947-006	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	3.5 U	3.5	0.15	.62	12/12/19 19:28	
1,1,2,2-Tetrachloroethane	3.5 U	3.5	0.15	.62	12/12/19 19:28	
1,1,2-Trichloroethane	3.5 U	3.5	0.15	.62	12/12/19 19:28	
1,1,2-Trichloro-1,2,2-trifluoroethane	3.5 U	3.5	0.15	.62	12/12/19 19:28	
1,1-Dichloroethane (1,1-DCA)	3.5 U	3.5	0.15	.62	12/12/19 19:28	
1,1-Dichloroethene (1,1-DCE)	3.5 U	3.5	0.21	.62	12/12/19 19:28	
1,2,3-Trichlorobenzene	3.5 U	3.5	0.37	.62	12/12/19 19:28	
1,2,4-Trichlorobenzene	3.5 U	3.5	0.30	.62	12/12/19 19:28	
1,2-Dibromo-3-chloropropane (DBCP)	3.5 U	3.5	0.21	.62	12/12/19 19:28	
1,2-Dibromoethane	3.5 U	3.5	0.15	.62	12/12/19 19:28	
1,2-Dichlorobenzene	3.5 U	3.5	0.15	.62	12/12/19 19:28	
1,2-Dichloroethane	3.5 U	3.5	0.15	.62	12/12/19 19:28	
1,2-Dichloropropane	3.5 U	3.5	0.15	.62	12/12/19 19:28	
1,3-Dichlorobenzene	3.5 U	3.5	0.15	.62	12/12/19 19:28	
1,4-Dichlorobenzene	3.5 U	3.5	0.16	.62	12/12/19 19:28	
1,4-Dioxane	71 U	71	15	.62	12/12/19 19:28	
2-Butanone (MEK)	3.5 U	3.5	1.5	.62	12/12/19 19:28	
2-Hexanone	3.5 U	3.5	0.26	.62	12/12/19 19:28	
4-Methyl-2-pentanone	3.5 U	3.5	0.17	.62	12/12/19 19:28	
Acetone	**19**	3.5	3.4	.62	12/12/19 19:28	
Benzene	3.5 U	3.5	0.15	.62	12/12/19 19:28	
Bromochloromethane	3.5 U	3.5	0.15	.62	12/12/19 19:28	
Bromodichloromethane	3.5 U	3.5	0.15	.62	12/12/19 19:28	
Bromoform	3.5 U	3.5	0.36	.62	12/12/19 19:28	
Bromomethane	3.5 U	3.5	1.5	.62	12/12/19 19:28	
Carbon Disulfide	**0.22 J**	3.5	0.21	.62	12/12/19 19:28	
Carbon Tetrachloride	3.5 U	3.5	0.19	.62	12/12/19 19:28	
Chlorobenzene	3.5 U	3.5	0.15	.62	12/12/19 19:28	
Chloroethane	3.5 U	3.5	0.15	.62	12/12/19 19:28	
Chloroform	3.5 U	3.5	0.15	.62	12/12/19 19:28	
Chloromethane	3.5 U	3.5	0.99	.62	12/12/19 19:28	
Cyclohexane	3.5 U	3.5	0.19	.62	12/12/19 19:28	
Dibromochloromethane	3.5 U	3.5	0.15	.62	12/12/19 19:28	
Dichlorodifluoromethane (CFC 12)	3.5 U	3.5	0.24	.62	12/12/19 19:28	
Dichloromethane	3.5 U	3.5	2.0	.62	12/12/19 19:28	
Ethylbenzene	3.5 U	3.5	0.15	.62	12/12/19 19:28	
Isopropylbenzene (Cumene)	3.5 U	3.5	0.15	.62	12/12/19 19:28	
Methyl Acetate	**0.74 J**	3.5	0.60	.62	12/12/19 19:28	
Methyl tert-Butyl Ether	3.5 U	3.5	0.15	.62	12/12/19 19:28	
Methylcyclohexane	3.5 U	3.5	0.22	.62	12/12/19 19:28	
Styrene	3.5 U	3.5	0.15	.62	12/12/19 19:28	
Tetrachloroethene (PCE)	3.5 U	3.5	0.17	.62	12/12/19 19:28	
Toluene	**0.32 J**	3.5	0.15	.62	12/12/19 19:28	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 11:40
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB9 2-4	**Units:**	ug/Kg
Lab Code:	R1911947-006	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	3.5 U	3.5	0.16	.62	12/12/19 19:28	
Trichlorofluoromethane (CFC 11)	3.5 U	3.5	0.19	.62	12/12/19 19:28	
Vinyl Chloride	3.5 U	3.5	0.33	.62	12/12/19 19:28	
cis-1,2-Dichloroethene	3.5 U	3.5	0.15	.62	12/12/19 19:28	
cis-1,3-Dichloropropene	3.5 U	3.5	0.15	.62	12/12/19 19:28	
m,p-Xylenes	7.1 U	7.1	0.27	.62	12/12/19 19:28	
o-Xylene	3.5 U	3.5	0.15	.62	12/12/19 19:28	
trans-1,2-Dichloroethene	3.5 U	3.5	0.15	.62	12/12/19 19:28	
trans-1,3-Dichloropropene	3.5 U	3.5	0.15	.62	12/12/19 19:28	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	31 - 154	12/12/19 19:28	
Dibromofluoromethane	92	63 - 138	12/12/19 19:28	
Toluene-d8	95	66 - 138	12/12/19 19:28	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 11:50
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB9 11-13	**Units:**	ug/Kg
Lab Code:	R1911947-007	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	3.8 U	3.8	0.16	.68	12/12/19 19:51	
1,1,2,2-Tetrachloroethane	3.8 U	3.8	0.16	.68	12/12/19 19:51	
1,1,2-Trichloroethane	3.8 U	3.8	0.16	.68	12/12/19 19:51	
1,1,2-Trichloro-1,2,2-trifluoroethane	3.8 U	3.8	0.16	.68	12/12/19 19:51	
1,1-Dichloroethane (1,1-DCA)	3.8 U	3.8	0.16	.68	12/12/19 19:51	
1,1-Dichloroethene (1,1-DCE)	3.8 U	3.8	0.23	.68	12/12/19 19:51	
1,2,3-Trichlorobenzene	3.8 U	3.8	0.40	.68	12/12/19 19:51	
1,2,4-Trichlorobenzene	3.8 U	3.8	0.33	.68	12/12/19 19:51	
1,2-Dibromo-3-chloropropane (DBCP)	3.8 U	3.8	0.23	.68	12/12/19 19:51	
1,2-Dibromoethane	3.8 U	3.8	0.16	.68	12/12/19 19:51	
1,2-Dichlorobenzene	3.8 U	3.8	0.16	.68	12/12/19 19:51	
1,2-Dichloroethane	3.8 U	3.8	0.16	.68	12/12/19 19:51	
1,2-Dichloropropane	3.8 U	3.8	0.16	.68	12/12/19 19:51	
1,3-Dichlorobenzene	3.8 U	3.8	0.16	.68	12/12/19 19:51	
1,4-Dichlorobenzene	3.8 U	3.8	0.17	.68	12/12/19 19:51	
1,4-Dioxane	77 U	77	16	.68	12/12/19 19:51	
2-Butanone (MEK)	**2.3 J**	3.8	1.6	.68	12/12/19 19:51	
2-Hexanone	3.8 U	3.8	0.28	.68	12/12/19 19:51	
4-Methyl-2-pentanone	3.8 U	3.8	0.18	.68	12/12/19 19:51	
Acetone	**20**	3.8	3.7	.68	12/12/19 19:51	
Benzene	**0.62 J**	3.8	0.16	.68	12/12/19 19:51	
Bromochloromethane	3.8 U	3.8	0.16	.68	12/12/19 19:51	
Bromodichloromethane	3.8 U	3.8	0.16	.68	12/12/19 19:51	
Bromoform	3.8 U	3.8	0.39	.68	12/12/19 19:51	
Bromomethane	3.8 U	3.8	1.7	.68	12/12/19 19:51	
Carbon Disulfide	**0.63 J**	3.8	0.23	.68	12/12/19 19:51	
Carbon Tetrachloride	3.8 U	3.8	0.20	.68	12/12/19 19:51	
Chlorobenzene	3.8 U	3.8	0.16	.68	12/12/19 19:51	
Chloroethane	3.8 U	3.8	0.16	.68	12/12/19 19:51	
Chloroform	3.8 U	3.8	0.16	.68	12/12/19 19:51	
Chloromethane	3.8 U	3.8	1.1	.68	12/12/19 19:51	
Cyclohexane	**1.9 J**	3.8	0.20	.68	12/12/19 19:51	
Dibromochloromethane	3.8 U	3.8	0.16	.68	12/12/19 19:51	
Dichlorodifluoromethane (CFC 12)	3.8 U	3.8	0.26	.68	12/12/19 19:51	
Dichloromethane	3.8 U	3.8	2.2	.68	12/12/19 19:51	
Ethylbenzene	**0.63 J**	3.8	0.16	.68	12/12/19 19:51	
Isopropylbenzene (Cumene)	3.8 U	3.8	0.16	.68	12/12/19 19:51	
Methyl Acetate	3.8 U	3.8	0.65	.68	12/12/19 19:51	
Methyl tert-Butyl Ether	3.8 U	3.8	0.16	.68	12/12/19 19:51	
Methylcyclohexane	**3.7 J**	3.8	0.24	.68	12/12/19 19:51	
Styrene	3.8 U	3.8	0.16	.68	12/12/19 19:51	
Tetrachloroethene (PCE)	3.8 U	3.8	0.18	.68	12/12/19 19:51	
Toluene	**2.3 J**	3.8	0.16	.68	12/12/19 19:51	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 11:50
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB9 11-13	**Units:**	ug/Kg
Lab Code:	R1911947-007	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	3.8 U	3.8	0.17	.68	12/12/19 19:51	
Trichlorofluoromethane (CFC 11)	3.8 U	3.8	0.20	.68	12/12/19 19:51	
Vinyl Chloride	3.8 U	3.8	0.36	.68	12/12/19 19:51	
cis-1,2-Dichloroethene	3.8 U	3.8	0.16	.68	12/12/19 19:51	
cis-1,3-Dichloropropene	3.8 U	3.8	0.16	.68	12/12/19 19:51	
m,p-Xylenes	**2.8 J**	7.7	0.29	.68	12/12/19 19:51	
o-Xylene	**0.93 J**	3.8	0.16	.68	12/12/19 19:51	
trans-1,2-Dichloroethene	3.8 U	3.8	0.16	.68	12/12/19 19:51	
trans-1,3-Dichloropropene	3.8 U	3.8	0.16	.68	12/12/19 19:51	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	87	31 - 154	12/12/19 19:51	
Dibromofluoromethane	91	63 - 138	12/12/19 19:51	
Toluene-d8	96	66 - 138	12/12/19 19:51	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
000109-66-0	Pentane	1.70	4.4	JN
000107-83-5	Pentane, 2-methyl-	2.42	4.5	JN

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 12:30
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB10 2-4	**Units:**	ug/Kg
Lab Code:	R1911947-008	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	3.9 U	3.9	0.16	.69	12/12/19 20:14	
1,1,2,2-Tetrachloroethane	3.9 U	3.9	0.16	.69	12/12/19 20:14	
1,1,2-Trichloroethane	3.9 U	3.9	0.16	.69	12/12/19 20:14	
1,1,2-Trichloro-1,2,2-trifluoroethane	3.9 U	3.9	0.16	.69	12/12/19 20:14	
1,1-Dichloroethane (1,1-DCA)	3.9 U	3.9	0.16	.69	12/12/19 20:14	
1,1-Dichloroethene (1,1-DCE)	3.9 U	3.9	0.23	.69	12/12/19 20:14	
1,2,3-Trichlorobenzene	3.9 U	3.9	0.41	.69	12/12/19 20:14	
1,2,4-Trichlorobenzene	3.9 U	3.9	0.33	.69	12/12/19 20:14	
1,2-Dibromo-3-chloropropane (DBCP)	3.9 U	3.9	0.23	.69	12/12/19 20:14	
1,2-Dibromoethane	3.9 U	3.9	0.16	.69	12/12/19 20:14	
1,2-Dichlorobenzene	3.9 U	3.9	0.16	.69	12/12/19 20:14	
1,2-Dichloroethane	3.9 U	3.9	0.16	.69	12/12/19 20:14	
1,2-Dichloropropane	3.9 U	3.9	0.16	.69	12/12/19 20:14	
1,3-Dichlorobenzene	3.9 U	3.9	0.16	.69	12/12/19 20:14	
1,4-Dichlorobenzene	3.9 U	3.9	0.17	.69	12/12/19 20:14	
1,4-Dioxane	77 U	77	16	.69	12/12/19 20:14	
2-Butanone (MEK)	3.9 U	3.9	1.6	.69	12/12/19 20:14	
2-Hexanone	3.9 U	3.9	0.28	.69	12/12/19 20:14	
4-Methyl-2-pentanone	3.9 U	3.9	0.18	.69	12/12/19 20:14	
Acetone	**28**	3.9	3.7	.69	12/12/19 20:14	
Benzene	3.9 U	3.9	0.16	.69	12/12/19 20:14	
Bromochloromethane	3.9 U	3.9	0.16	.69	12/12/19 20:14	
Bromodichloromethane	3.9 U	3.9	0.16	.69	12/12/19 20:14	
Bromoform	3.9 U	3.9	0.39	.69	12/12/19 20:14	
Bromomethane	3.9 U	3.9	1.7	.69	12/12/19 20:14	
Carbon Disulfide	3.9 U	3.9	0.23	.69	12/12/19 20:14	
Carbon Tetrachloride	3.9 U	3.9	0.21	.69	12/12/19 20:14	
Chlorobenzene	3.9 U	3.9	0.16	.69	12/12/19 20:14	
Chloroethane	3.9 U	3.9	0.16	.69	12/12/19 20:14	
Chloroform	3.9 U	3.9	0.16	.69	12/12/19 20:14	
Chloromethane	3.9 U	3.9	1.1	.69	12/12/19 20:14	
Cyclohexane	3.9 U	3.9	0.21	.69	12/12/19 20:14	
Dibromochloromethane	3.9 U	3.9	0.16	.69	12/12/19 20:14	
Dichlorodifluoromethane (CFC 12)	3.9 U	3.9	0.26	.69	12/12/19 20:14	
Dichloromethane	3.9 U	3.9	2.2	.69	12/12/19 20:14	
Ethylbenzene	3.9 U	3.9	0.16	.69	12/12/19 20:14	
Isopropylbenzene (Cumene)	3.9 U	3.9	0.16	.69	12/12/19 20:14	
Methyl Acetate	**1.6 J**	3.9	0.65	.69	12/12/19 20:14	
Methyl tert-Butyl Ether	3.9 U	3.9	0.16	.69	12/12/19 20:14	
Methylcyclohexane	3.9 U	3.9	0.24	.69	12/12/19 20:14	
Styrene	3.9 U	3.9	0.16	.69	12/12/19 20:14	
Tetrachloroethene (PCE)	3.9 U	3.9	0.18	.69	12/12/19 20:14	
Toluene	**0.38 J**	3.9	0.16	.69	12/12/19 20:14	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 12:30
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB10 2-4	**Units:**	ug/Kg
Lab Code:	R1911947-008	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	3.9 U	3.9	0.17	.69	12/12/19 20:14	
Trichlorofluoromethane (CFC 11)	3.9 U	3.9	0.21	.69	12/12/19 20:14	
Vinyl Chloride	3.9 U	3.9	0.36	.69	12/12/19 20:14	
cis-1,2-Dichloroethene	3.9 U	3.9	0.16	.69	12/12/19 20:14	
cis-1,3-Dichloropropene	3.9 U	3.9	0.16	.69	12/12/19 20:14	
m,p-Xylenes	7.7 U	7.7	0.29	.69	12/12/19 20:14	
o-Xylene	3.9 U	3.9	0.16	.69	12/12/19 20:14	
trans-1,2-Dichloroethene	3.9 U	3.9	0.16	.69	12/12/19 20:14	
trans-1,3-Dichloropropene	3.9 U	3.9	0.16	.69	12/12/19 20:14	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	31 - 154	12/12/19 20:14	
Dibromofluoromethane	92	63 - 138	12/12/19 20:14	
Toluene-d8	96	66 - 138	12/12/19 20:14	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 12:30
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB10 12-14	**Units:**	ug/Kg
Lab Code:	R1911947-009	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	3.4 U	3.4	0.14	.62	12/12/19 20:37	
1,1,2,2-Tetrachloroethane	3.4 U	3.4	0.14	.62	12/12/19 20:37	
1,1,2-Trichloroethane	3.4 U	3.4	0.14	.62	12/12/19 20:37	
1,1,2-Trichloro-1,2,2-trifluoroethane	3.4 U	3.4	0.14	.62	12/12/19 20:37	
1,1-Dichloroethane (1,1-DCA)	3.4 U	3.4	0.14	.62	12/12/19 20:37	
1,1-Dichloroethene (1,1-DCE)	3.4 U	3.4	0.20	.62	12/12/19 20:37	
1,2,3-Trichlorobenzene	3.4 U	3.4	0.36	.62	12/12/19 20:37	
1,2,4-Trichlorobenzene	3.4 U	3.4	0.29	.62	12/12/19 20:37	
1,2-Dibromo-3-chloropropane (DBCP)	3.4 U	3.4	0.20	.62	12/12/19 20:37	
1,2-Dibromoethane	3.4 U	3.4	0.14	.62	12/12/19 20:37	
1,2-Dichlorobenzene	3.4 U	3.4	0.14	.62	12/12/19 20:37	
1,2-Dichloroethane	3.4 U	3.4	0.14	.62	12/12/19 20:37	
1,2-Dichloropropane	3.4 U	3.4	0.14	.62	12/12/19 20:37	
1,3-Dichlorobenzene	3.4 U	3.4	0.14	.62	12/12/19 20:37	
1,4-Dichlorobenzene	3.4 U	3.4	0.16	.62	12/12/19 20:37	
1,4-Dioxane	69 U	69	14	.62	12/12/19 20:37	
2-Butanone (MEK)	**3.1 J**	3.4	1.4	.62	12/12/19 20:37	
2-Hexanone	3.4 U	3.4	0.25	.62	12/12/19 20:37	
4-Methyl-2-pentanone	3.4 U	3.4	0.16	.62	12/12/19 20:37	
Acetone	**140 E**	3.4	3.3	.62	12/12/19 20:37	
Benzene	3.4 U	3.4	0.14	.62	12/12/19 20:37	
Bromochloromethane	3.4 U	3.4	0.14	.62	12/12/19 20:37	
Bromodichloromethane	3.4 U	3.4	0.14	.62	12/12/19 20:37	
Bromoform	3.4 U	3.4	0.35	.62	12/12/19 20:37	
Bromomethane	3.4 U	3.4	1.5	.62	12/12/19 20:37	
Carbon Disulfide	3.4 U	3.4	0.20	.62	12/12/19 20:37	
Carbon Tetrachloride	3.4 U	3.4	0.18	.62	12/12/19 20:37	
Chlorobenzene	3.4 U	3.4	0.14	.62	12/12/19 20:37	
Chloroethane	3.4 U	3.4	0.14	.62	12/12/19 20:37	
Chloroform	3.4 U	3.4	0.14	.62	12/12/19 20:37	
Chloromethane	3.4 U	3.4	0.96	.62	12/12/19 20:37	
Cyclohexane	3.4 U	3.4	0.18	.62	12/12/19 20:37	
Dibromochloromethane	3.4 U	3.4	0.14	.62	12/12/19 20:37	
Dichlorodifluoromethane (CFC 12)	3.4 U	3.4	0.23	.62	12/12/19 20:37	
Dichloromethane	3.4 U	3.4	2.0	.62	12/12/19 20:37	
Ethylbenzene	3.4 U	3.4	0.14	.62	12/12/19 20:37	
Isopropylbenzene (Cumene)	3.4 U	3.4	0.14	.62	12/12/19 20:37	
Methyl Acetate	**22**	3.4	0.58	.62	12/12/19 20:37	
Methyl tert-Butyl Ether	**0.25 J**	3.4	0.14	.62	12/12/19 20:37	
Methylcyclohexane	3.4 U	3.4	0.22	.62	12/12/19 20:37	
Styrene	3.4 U	3.4	0.14	.62	12/12/19 20:37	
Tetrachloroethene (PCE)	3.4 U	3.4	0.16	.62	12/12/19 20:37	
Toluene	**0.22 J**	3.4	0.14	.62	12/12/19 20:37	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 12:30
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB10 12-14	**Units:**	ug/Kg
Lab Code:	R1911947-009	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	3.4 U	3.4	0.16	.62	12/12/19 20:37	
Trichlorofluoromethane (CFC 11)	3.4 U	3.4	0.18	.62	12/12/19 20:37	
Vinyl Chloride	3.4 U	3.4	0.32	.62	12/12/19 20:37	
cis-1,2-Dichloroethene	3.4 U	3.4	0.14	.62	12/12/19 20:37	
cis-1,3-Dichloropropene	3.4 U	3.4	0.14	.62	12/12/19 20:37	
m,p-Xylenes	6.9 U	6.9	0.26	.62	12/12/19 20:37	
o-Xylene	3.4 U	3.4	0.14	.62	12/12/19 20:37	
trans-1,2-Dichloroethene	3.4 U	3.4	0.14	.62	12/12/19 20:37	
trans-1,3-Dichloropropene	3.4 U	3.4	0.14	.62	12/12/19 20:37	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	31 - 154	12/12/19 20:37	
Dibromofluoromethane	91	63 - 138	12/12/19 20:37	
Toluene-d8	99	66 - 138	12/12/19 20:37	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
000109-66-0	Pentane	1.69	3.5	JN
000107-83-5	Pentane, 2-methyl-	2.42	6.1	JN
	unknown	2.50	3.6	J

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 12:30
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB10 12-14	**Units:**	ug/Kg
Lab Code:	R1911947-009	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	390 U	390	16	71	12/16/19 15:27	
1,1,2,2-Tetrachloroethane	390 U	390	16	71	12/16/19 15:27	
1,1,2-Trichloroethane	390 U	390	16	71	12/16/19 15:27	
1,1,2-Trichloro-1,2,2-trifluoroethane	390 U	390	16	71	12/16/19 15:27	
1,1-Dichloroethane (1,1-DCA)	390 U	390	16	71	12/16/19 15:27	
1,1-Dichloroethene (1,1-DCE)	390 U	390	23	71	12/16/19 15:27	
1,2,3-Trichlorobenzene	390 U	390	41	71	12/16/19 15:27	
1,2,4-Trichlorobenzene	390 U	390	33	71	12/16/19 15:27	
1,2-Dibromo-3-chloropropane (DBCP)	390 U	390	23	71	12/16/19 15:27	
1,2-Dibromoethane	390 U	390	16	71	12/16/19 15:27	
1,2-Dichlorobenzene	390 U	390	16	71	12/16/19 15:27	
1,2-Dichloroethane	390 U	390	16	71	12/16/19 15:27	
1,2-Dichloropropane	390 U	390	16	71	12/16/19 15:27	
1,3-Dichlorobenzene	390 U	390	16	71	12/16/19 15:27	
1,4-Dichlorobenzene	390 U	390	18	71	12/16/19 15:27	
1,4-Dioxane	7800 U	7800	1600	71	12/16/19 15:27	
2-Butanone (MEK)	390 U	390	160	71	12/16/19 15:27	
2-Hexanone	390 U	390	29	71	12/16/19 15:27	
4-Methyl-2-pentanone	390 U	390	19	71	12/16/19 15:27	
Acetone	**560 D**	390	370	71	12/16/19 15:27	
Benzene	390 U	390	16	71	12/16/19 15:27	
Bromochloromethane	390 U	390	16	71	12/16/19 15:27	
Bromodichloromethane	390 U	390	16	71	12/16/19 15:27	
Bromoform	390 U	390	40	71	12/16/19 15:27	
Bromomethane	390 U	390	170	71	12/16/19 15:27	
Carbon Disulfide	390 U	390	23	71	12/16/19 15:27	
Carbon Tetrachloride	390 U	390	21	71	12/16/19 15:27	
Chlorobenzene	390 U	390	16	71	12/16/19 15:27	
Chloroethane	390 U	390	16	71	12/16/19 15:27	
Chloroform	390 U	390	16	71	12/16/19 15:27	
Chloromethane	390 U	390	110	71	12/16/19 15:27	
Cyclohexane	390 U	390	21	71	12/16/19 15:27	
Dibromochloromethane	390 U	390	16	71	12/16/19 15:27	
Dichlorodifluoromethane (CFC 12)	390 U	390	26	71	12/16/19 15:27	
Dichloromethane	390 U	390	220	71	12/16/19 15:27	
Ethylbenzene	390 U	390	16	71	12/16/19 15:27	
Isopropylbenzene (Cumene)	390 U	390	16	71	12/16/19 15:27	
Methyl Acetate	**260 DJ**	390	66	71	12/16/19 15:27	
Methyl tert-Butyl Ether	390 U	390	16	71	12/16/19 15:27	
Methylcyclohexane	390 U	390	25	71	12/16/19 15:27	
Styrene	390 U	390	16	71	12/16/19 15:27	
Tetrachloroethene (PCE)	390 U	390	19	71	12/16/19 15:27	
Toluene	390 U	390	16	71	12/16/19 15:27	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R1911947
Project:	Tonawanda Bisonite Paint	**Date Collected:**	12/05/19 12:30
Sample Matrix:	Soil	**Date Received:**	12/05/19 17:05
Sample Name:	SB10 12-14	**Units:**	ug/Kg
Lab Code:	R1911947-009	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	390 U	390	18	71	12/16/19 15:27	
Trichlorofluoromethane (CFC 11)	390 U	390	21	71	12/16/19 15:27	
Vinyl Chloride	390 U	390	37	71	12/16/19 15:27	
cis-1,2-Dichloroethene	390 U	390	16	71	12/16/19 15:27	
cis-1,3-Dichloropropene	390 U	390	16	71	12/16/19 15:27	
m,p-Xylenes	780 U	780	30	71	12/16/19 15:27	
o-Xylene	390 U	390	16	71	12/16/19 15:27	
trans-1,2-Dichloroethene	390 U	390	16	71	12/16/19 15:27	
trans-1,3-Dichloropropene	390 U	390	16	71	12/16/19 15:27	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	31 - 154	12/16/19 15:27	
Dibromofluoromethane	82	63 - 138	12/16/19 15:27	
Toluene-d8	96	66 - 138	12/16/19 15:27	

GROUNDWATER ANALTICAL RESULTS

February 19, 2020 Service Request No:R2000775

Mr. Peter von Schondorf
Leader Professional Services, Inc.
271 Marsh Road
Suite 2
Pittsford, NY 14534

Laboratory Results for: Tonawanda Bisonite Paint

Dear Mr.von Schondorf,

Enclosed are the results of the sample(s) submitted to our laboratory January 28, 2020
For your reference, these analyses have been assigned our service request number **R2000775.**

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Janice Jaeger
Project Manager

CC: Mike Rumrill

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
PHONE +1 585 288 5380 | FAX +1 585 288 8475
ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Environmental

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Water

Service Request: R2000775
Date Received: 01/28/2020

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

Nine water samples were received for analysis at ALS Environmental on 01/28/2020. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Semivolatiles by GC/MS:

Method 8270D, 02/05/2020: The Relative Percent Difference criterion was exceeded for one or more analytes in the Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD). All spike recoveries are wtihin limits. The sample data is not significantly affected. No further corrective action was appropriate.
Method 8270D, R2000775-002: The control limits were exceeded for one or more surrogates due to matrix interferences. Due to the presence of non-target background components that prevented adequate resolution of the surrogate, accurate quantitation was not possible. No further corrective action was appropriate.

Semivoa GC:

Method 8081B, 02/01/2020: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Method 8081B, 02/01/2020: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8081B, 02/12/2020: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8081B, 669867: The control limits for one or more surrogates in the sample are not applicable. The analysis of the sample required a dilution, which resulted in a surrogate concentration below the Method Reporting Limit (MRL). No further corrective action was appropriate.

Method 8081B, 02/12/2020: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

For samples r200775-001 and 002 there is a hit for ddt the closing ccv fails low on one column sample were ran 2x with same result.

Method 8082A, 02/13/2020: The lower control limit for the spike recovery of the Laboratory Control Sample (LCS) was exceeded for one or more analyte. There were no detections of the analyte(s) in the associated field samples. Sample R2000775-009 in

Approved by _____ Date 02/19/2020

this batch was re-extract outside of holding time to confirm low surrogate. Re-extract confirmed low surrogate and no hits in sample. Orginal sample result reported.
Method 8082A, 02/05/2020: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8082A, 02/05/2020: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8082A, R2000775-001, -002: The control limits for one or more surrogates in the sample are not applicable. The analysis of the sample required a dilution, which resulted in a surrogate concentration below the Method Reporting Limit (MRL). No further corrective action was appropriate.
Method 8151A, 02/04/2020: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken. Front column only, no hits.

Method 8151A, 668944s: The control limits were exceeded for one or more surrogates due to matrix interferences. Due to the presence of non-target background components that prevented adequate resolution of the surrogate, accurate quantitation was not possible. No further corrective action was appropriate. Sample ID#(R2000775-009)

Method 8151A, 02/06/2020: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8151A, 669303: The sample was diluted to elevate the reporting limit above the presence of non-target background components indicated on the chromatogram. High non-target peaks in the chromatogram topping out the detector giving no usable results. The matrix interference prevented adequate resolution of one or more target compound(s) at the reporting limit.

Method 8151A, 669303: The control limits for one or more surrogates in the sample are not applicable. The analysis of the sample required a dilution, which resulted in a surrogate concentration below the Method Reporting Limit (MRL). No further corrective action was appropriate.

Metals:

Method 6010C, R2000775-001,002: Sample(s) required dilution for Selenium due to potential interferences. The reporting limits are adjusted to reflect the dilution.

General Chemistry:

No significant anomalies were noted with this analysis.

Volatiles by GC/MS:

Method 8260C, 02/03/2020: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.
Method 8260C, 02/04/2020: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Approved by _____ Date 02/19/2020

Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Leader Professional Services, Inc. **Service Request:**R2000775

Project: Tonawanda Bisonite Paint/235.198A

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R2000775-001	MW4	1/27/2020	0900
R2000775-002	MW4 FP	1/27/2020	0900
R2000775-003	MW1	1/28/2020	1035
R2000775-004	MW2	1/27/2020	0935
R2000775-005	MW5	1/27/2020	1245
R2000775-006	Equipment Blank	1/27/2020	1344
R2000775-007	Trip Blank	1/27/2020	1212
R2000775-008	MW2 DUP	1/27/2020	0958
R2000775-009	MW3	1/27/2020	1135

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM 60297

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 2

Project Name: Bisonite	Project Number: 235.198A
Project Manager: Pete von Schondorf	Report CC:
Company/Address: Leader Prof. Services 271 Marsh Road Ste 2 Pittsford NY	
Phone #: 585-248-2413	Email: pvonschondorf@leaderlink.com
Sampler's Signature: Pete von Schondorf	Sampler's Printed Name: Pete von Schondorf

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	PRESERVATIVE	GC/MS VOAs ✱8260 ○ 624 ○ CLP	GC/MS SVOAs ✱8270 ○ 625	GC VOAs ○ 8021 ○ 601/602	PESTICIDES+ Herbicides ✱8081 ○ 608	PCBs ✱8082 ○ 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	1,4 Dioxane							
							TCL+TIC	TCL+20 TIC				TAL ✱✱✱									
MW4*		1-27-20	9:00	W	12		✓	✓		✓	✓	✓									
MW4 FP*		1-27-20	9:00	W	12		✓	✓		✓	✓	✓									
MW1		1-27-20**	1035	W	8		✓				✓	✓									
MW2		1-27-20	9:54	W	14		✓	✓		✓	✓	✓		✓							
MW5		1-27-20**	12:45	W	12		✓	✓		✓	✓	✓		✓							
Equipment Blank		1-27-20	13:44	W	14		✓	✓		✓	✓	✓		✓							
Trip Blank		1-27-20	12:12	W	3		✓														
MW-2 Duplicate		1-27-20	9:58	W	14		✓	✓		✓	✓	✓		✓							
MW-2 MS		1-27-20	11:38	W	14		✓	✓		✓	✓	✓		✓							
MW-2 MS Dup.		1-27-20	12:12	W	14		✓	✓		✓	✓	✓		✓							
MW3		1-27-20	1135	W	14		✓	✓		✓	✓	✓									
				W	12																

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other Ice

REMARKS/ ALTERNATE DESCRIPTION

SPECIAL INSTRUCTIONS/COMMENTS
Metals

✱ Poss. high organic conc.
✱✱ Collected 1/27 to 1/28/20
✱✱✱ Plus Hg & CN

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 1 day ____ 2 day ____ 3 day
____ 4 day ____ 5 day
X Standard (10 business days-No Surcharge)
REQUESTED REPORT DATE

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
X IV. Data Validation Report with Raw Data
Edata X Yes ____ No

INVOICE INFORMATION
PO # 235.198A
BILL TO: LEADER
271 MARSH. RD
Pittsford, N.Y.
14534

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: Pete Snyder	Printed Name: Daniel Hart	Printed Name	Printed Name	Printed Name	
Firm: Leader	Firm: ALS	Firm	Firm	Firm	
Date/Time: 1/27/20 17:10	Date/Time: 1/28/2020 17:10	Date/Time	Date/Time	Date/Time	

R2000775 5
Leader Professional Services, Inc.
Tonawanda Bisonite Paint

Distribution: White - Lab Copy; Yellow - Return to Originator

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R2000775 5
Leader Professional Services, Inc.
Tonawanda Bisonite Paint

Cooler Receipt and Preservation Check Form

Project/Client Leader Folder Number

Cooler received on 1/28/2020 by: SW

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	Y (N)
2	**Custody papers** properly completed (ink, signed)?	(Y) N
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N
4	Circle: **Wet Ice Dry Ice Gel packs** present?	(Y) N

5a	**Perchlorate** samples have required headspace?	Y N (NA)
5b	Did VOA vials, Alk,or Sulfide have sig* **bubbles**?	(Y) N NA
6	Where did the bottles originate?	ALS/ROC CLIENT
7	Soil VOA received as:	Bulk Encore 5035set (NA)

8. Temperature Readings Date: 1/28/2020 Time: 1736 ID: IR#7 IR#10 From: Temp Blank Sample Bottle

Observed Temp (°C)	3.4°	1.8°	1.9°	5.3°	0.9°	1.5°	0.8
Within 0-6°C?	(Y) N	(Y) N	(Y) N	(Y) N	(Y) N	(Y) N	(Y) N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: Room by SW on 1/28/2020 at 1730
5035 samples placed in storage location: _____ by _____ on _____ at _____

Cooler Breakdown/Preservation Check**: Date: 1/29/2020 Time: 1110 by: (SW)

9. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
10. Did all bottle labels and tags agree with custody papers? (YES) NO
11. Were correct containers used for the tests indicated? (YES) NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO (N/A)
13. Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized Tedlar® Bags Inflated (N/A)

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12	230018	NaOH	✓		204650	12/20				
≤2	↓	HNO_3	✓		1118091		-001, -002	1ml	B2B017A	≤2
≤2		H_2SO_4								
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For (CN), Phenol, 625, 608pest, 522	✓		If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-			**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).			
		HCl	**	**						

Bottle lot numbers: 19-10-11, 2502-13, 102819-1BIC, 110418-1BMC

Explain all Discrepancies/ Other Comments:

4 Vials: MW4

1 Vial: MW1, MW3

HPROD	BULK
HTR	FLDT
(Client)	HGFB
ALS	LL3541

Labels secondary reviewed by: (SW)

PC Secondary Review: HW 1/29/20 *significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

Cooler Receipt and Preservation Check Form

Project/Client Leader Folder Number .

Cooler received on 1/28/2020 by: JN

COURIER: ALS UPS FEDEX VELOCITY ~~CLIENT~~

1	Were **Custody seals** on outside of cooler?	Y (N)
2	**Custody papers** properly completed (ink, signed)?	(Y) N
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N
4	Circle: **Wet Ice Dry Ice Gel packs** present?	(Y) N

5a	**Perchlorate** samples have required headspace?	Y N (NA)
5b	Did ~~VOA~~ vials, Alk, or Sulfide have sig* **bubbles**?	(Y) N NA
6	Where did the bottles originate?	(ALS/ROC) CLIENT
7	Soil VOA received as: Bulk Encore 5035set	(NA)

8. Temperature Readings Date: 1/28/20 Time: 1730 ID: IR#7 IR#10 From: Temp Blank ~~Sample Bottle~~

Observed Temp (°C)	1.3	0.4	0.90				
Within 0-6°C?	(Y) N	(Y) N	(Y) N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R-007 by JN on 1/28/20 at 1730
5035 samples placed in storage location: _____ by _____ on _____ at _____

Cooler Breakdown/Preservation Check**: Date: _____ Time: _____ by: _____

9.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?	YES	NO	
10.	Did all bottle labels and tags agree with custody papers?	YES	NO	
11.	Were correct containers used for the tests indicated?	YES	NO	
12.	Were 5035 vials acceptable (no extra labels, not leaking)?	YES	NO	N/A
13.	Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized		Tedlar® Bags Inflated	N/A

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2		HNO_3								
≤2		H_2SO_4								
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-			**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).			
		HCl	**	**						

Bottle lot numbers: _____

Explain all Discrepancies/ Other Comments:

* IVinl: MW2, TB.

HPROD	BULK
HTR	FLDT
(SUB)	HGFB
ALS	LL3541

Labels secondary reviewed by: _____

PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.

J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).

B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.

E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.

E Organics- Concentration has exceeded the calibration range for that specific analysis.

D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.

* Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.

H Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.

Spike was diluted out.

\+ Correlation coefficient for MSA is <0.995.

N Inorganics- Matrix spike recovery was outside laboratory limits.

N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.

S Concentration has been determined using Method of Standard Additions (MSA).

W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.

P Concentration >40% difference between the two GC columns.

C Confirmed by GC/MS

Q DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).

X See Case Narrative for discussion.

MRL Method Reporting Limit. Also known as:
LOQ Limit of Quantitation (LOQ)
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.

MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).

LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.

ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

[1] Analyses were performed according to our laboratoryôs NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: Leader Professional Services, Inc. **Service Request:** R2000775
Project: Tonawanda Bisonite Paint/235.198A

Sample Name: MW4 **Date Collected:** 01/27/20
Lab Code: R2000775-001 **Date Received:** 01/28/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	NMANSEN	NMANSEN
7470A	AKONZEL	AKONZEL
8081B	KSERCU	BALLGEIER
8082A	KSERCU	JMISIUREWICZ
8151A	KSERCU	BALLGEIER
8260C		KRUEST
8270D	VSTAUFFER	JMISIUREWICZ
9012B	CWOODS	MROGERSON

Sample Name: MW4 **Date Collected:** 01/27/20
Lab Code: R2000775-001.R01 **Date Received:** 01/28/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: MW4 FP **Date Collected:** 01/27/20
Lab Code: R2000775-002 **Date Received:** 01/28/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	NMANSEN	NMANSEN
7470A	AKONZEL	AKONZEL
8081B	KSERCU	BALLGEIER
8082A	KSERCU	JMISIUREWICZ
8151A	KSERCU	BALLGEIER
8260C		KRUEST
8270D	VSTAUFFER	JMISIUREWICZ
9012B	CWOODS	MROGERSON

Client: Leader Professional Services, Inc. **Service Request:** R2000775
Project: Tonawanda Bisonite Paint/235.198A

Sample Name: MW4 FP **Date Collected:** 01/27/20
Lab Code: R2000775-002.R01 **Date Received:** 01/28/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: MW1 **Date Collected:** 01/28/20
Lab Code: R2000775-003 **Date Received:** 01/28/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	NMANSEN	NMANSEN
7470A	AKONZEL	AKONZEL
8082A	KSERCU	BALLGEIER
8260C		KRUEST
9012B	CWOODS	MROGERSON

Sample Name: MW2 **Date Collected:** 01/27/20
Lab Code: R2000775-004 **Date Received:** 01/28/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	NMANSEN	NMANSEN
7470A	AKONZEL	AKONZEL
8081B	KSERCU	BALLGEIER
8082A	KSERCU	JMISIUREWICZ
8151A	KSERCU	BALLGEIER
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ
8270D SIM	JMISIUREWICZ	JMISIUREWICZ
9012B	CWOODS	MROGERSON

Client: Leader Professional Services, Inc. **Service Request:** R2000775
Project: Tonawanda Bisonite Paint/235.198A

Sample Name: MW5 **Date Collected:** 01/27/20
Lab Code: R2000775-005 **Date Received:** 01/28/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	NMANSEN	NMANSEN
7470A	AKONZEL	AKONZEL
8081B	KSERCU	BALLGEIER
8082A	KSERCU	JMISIUREWICZ
8151A	KSERCU	BALLGEIER
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ
9012B	CWOODS	MROGERSON

Sample Name: Equipment Blank **Date Collected:** 01/27/20
Lab Code: R2000775-006 **Date Received:** 01/28/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	NMANSEN	NMANSEN
7470A	AKONZEL	AKONZEL
8081B	KSERCU	BALLGEIER
8082A	KSERCU	JMISIUREWICZ
8151A	KSERCU	BALLGEIER
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ
8270D SIM	JMISIUREWICZ	JMISIUREWICZ
9012B	CWOODS	MROGERSON

Sample Name: Trip Blank **Date Collected:** 01/27/20
Lab Code: R2000775-007 **Date Received:** 01/28/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Client: Leader Professional Services, Inc. **Service Request:** R2000775
Project: Tonawanda Bisonite Paint/235.198A

Sample Name: MW2 DUP **Date Collected:** 01/27/20
Lab Code: R2000775-008 **Date Received:** 01/28/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	NMANSEN	NMANSEN
7470A	AKONZEL	AKONZEL
8081B	KSERCU	BALLGEIER
8082A	KSERCU	JMISIUREWICZ
8151A	KSERCU	BALLGEIER
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ
8270D SIM	JMISIUREWICZ	JMISIUREWICZ
9012B	CWOODS	MROGERSON

Sample Name: MW3 **Date Collected:** 01/27/20
Lab Code: R2000775-009 **Date Received:** 01/28/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	NMANSEN	NMANSEN
7470A	AKONZEL	AKONZEL
8081B	KSERCU	BALLGEIER
8082A	KSERCU	JMISIUREWICZ
8151A	KSERCU	BALLGEIER
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ
9012B	CWOODS	MROGERSON

Sample Name: MW3 **Date Collected:** 01/27/20
Lab Code: R2000775-009.R01 **Date Received:** 01/28/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8081B	KSERCU	BALLGEIER
8082A	KSERCU	JMISIUREWICZ
8260C		KRUEST

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	

Sample Results

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 09:00
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW4	**Units:**	ug/L
Lab Code:	R2000775-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	500	U	500	110	500	02/03/20 20:13	
1,1,2,2-Tetrachloroethane	500	U	500	100	500	02/03/20 20:13	
1,1,2-Trichloroethane	500	U	500	100	500	02/03/20 20:13	
1,1,2-Trichloro-1,2,2-trifluoroethane	500	U	500	100	500	02/03/20 20:13	
1,1-Dichloroethane (1,1-DCA)	500	U	500	100	500	02/03/20 20:13	
1,1-Dichloroethene (1,1-DCE)	500	U	500	130	500	02/03/20 20:13	
1,2,3-Trichlorobenzene	500	U	500	100	500	02/03/20 20:13	
1,2,4-Trichlorobenzene	500	U	500	130	500	02/03/20 20:13	
1,2-Dibromo-3-chloropropane (DBCP)	1000	U	1000	230	500	02/03/20 20:13	
1,2-Dibromoethane	500	U	500	100	500	02/03/20 20:13	
1,2-Dichlorobenzene	500	U	500	100	500	02/03/20 20:13	
1,2-Dichloroethane	500	U	500	100	500	02/03/20 20:13	
1,2-Dichloropropane	**140**	**J**	500	100	500	02/03/20 20:13	
1,3-Dichlorobenzene	500	U	500	100	500	02/03/20 20:13	
1,4-Dichlorobenzene	500	U	500	100	500	02/03/20 20:13	
1,4-Dioxane	20000	U	20000	6500	500	02/03/20 20:13	
2-Butanone (MEK)	**830000**	**E**	2500	390	500	02/03/20 20:13	
2-Hexanone	2500	U	2500	100	500	02/03/20 20:13	
4-Methyl-2-pentanone	**36000**		2500	100	500	02/03/20 20:13	
Acetone	**15000**		2500	1100	500	02/03/20 20:13	
Benzene	500	U	500	100	500	02/03/20 20:13	
Bromochloromethane	500	U	500	120	500	02/03/20 20:13	
Bromodichloromethane	500	U	500	110	500	02/03/20 20:13	
Bromoform	500	U	500	130	500	02/03/20 20:13	
Bromomethane	500	U	500	350	500	02/03/20 20:13	
Carbon Disulfide	500	U	500	130	500	02/03/20 20:13	
Carbon Tetrachloride	500	U	500	170	500	02/03/20 20:13	
Chlorobenzene	500	U	500	100	500	02/03/20 20:13	
Chloroethane	500	U	500	120	500	02/03/20 20:13	
Chloroform	**380**	**J**	500	120	500	02/03/20 20:13	
Chloromethane	500	U	500	140	500	02/03/20 20:13	
Cyclohexane	500	U	500	130	500	02/03/20 20:13	
Dibromochloromethane	500	U	500	100	500	02/03/20 20:13	
Dichlorodifluoromethane (CFC 12)	500	U	500	110	500	02/03/20 20:13	
Dichloromethane	**310**	**J**	500	180	500	02/03/20 20:13	
Ethylbenzene	**1800**		500	100	500	02/03/20 20:13	
Isopropylbenzene (Cumene)	500	U	500	100	500	02/03/20 20:13	
Methyl Acetate	1000	U	1000	170	500	02/03/20 20:13	
Methyl tert-Butyl Ether	500	U	500	100	500	02/03/20 20:13	
Methylcyclohexane	500	U	500	100	500	02/03/20 20:13	
Styrene	500	U	500	100	500	02/03/20 20:13	
Tetrachloroethene (PCE)	500	U	500	110	500	02/03/20 20:13	
Toluene	**45000**		500	100	500	02/03/20 20:13	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 09:00
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW4	**Units:**	ug/L
Lab Code:	R2000775-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	500 U	500	100	500	02/03/20 20:13	
Trichlorofluoromethane (CFC 11)	500 U	500	120	500	02/03/20 20:13	
Vinyl Chloride	500 U	500	100	500	02/03/20 20:13	
cis-1,2-Dichloroethene	500 U	500	120	500	02/03/20 20:13	
cis-1,3-Dichloropropene	500 U	500	100	500	02/03/20 20:13	
m,p-Xylenes	**7400**	1000	100	500	02/03/20 20:13	
o-Xylene	**1400**	500	100	500	02/03/20 20:13	
trans-1,2-Dichloroethene	500 U	500	100	500	02/03/20 20:13	
trans-1,3-Dichloropropene	500 U	500	120	500	02/03/20 20:13	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	02/03/20 20:13	
Dibromofluoromethane	96	89 - 119	02/03/20 20:13	
Toluene-d8	99	87 - 121	02/03/20 20:13	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 09:00
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW4	**Units:**	ug/L
Lab Code:	R2000775-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5000	U	5000	1100	5000	02/04/20 13:49	
1,1,2,2-Tetrachloroethane	5000	U	5000	1000	5000	02/04/20 13:49	
1,1,2-Trichloroethane	5000	U	5000	1000	5000	02/04/20 13:49	
1,1,2-Trichloro-1,2,2-trifluoroethane	5000	U	5000	1000	5000	02/04/20 13:49	
1,1-Dichloroethane (1,1-DCA)	5000	U	5000	1000	5000	02/04/20 13:49	
1,1-Dichloroethene (1,1-DCE)	5000	U	5000	1300	5000	02/04/20 13:49	
1,2,3-Trichlorobenzene	5000	U	5000	1000	5000	02/04/20 13:49	
1,2,4-Trichlorobenzene	5000	U	5000	1300	5000	02/04/20 13:49	
1,2-Dibromo-3-chloropropane (DBCP)	10000	U	10000	2300	5000	02/04/20 13:49	
1,2-Dibromoethane	5000	U	5000	1000	5000	02/04/20 13:49	
1,2-Dichlorobenzene	5000	U	5000	1000	5000	02/04/20 13:49	
1,2-Dichloroethane	5000	U	5000	1000	5000	02/04/20 13:49	
1,2-Dichloropropane	5000	U	5000	1000	5000	02/04/20 13:49	
1,3-Dichlorobenzene	5000	U	5000	1000	5000	02/04/20 13:49	
1,4-Dichlorobenzene	5000	U	5000	1000	5000	02/04/20 13:49	
1,4-Dioxane	200000	U	200000	65000	5000	02/04/20 13:49	
2-Butanone (MEK)	**850000**	**D**	25000	3900	5000	02/04/20 13:49	
2-Hexanone	25000	U	25000	1000	5000	02/04/20 13:49	
4-Methyl-2-pentanone	**35000**	**D**	25000	1000	5000	02/04/20 13:49	
Acetone	**15000**	**DJ**	25000	11000	5000	02/04/20 13:49	
Benzene	5000	U	5000	1000	5000	02/04/20 13:49	
Bromochloromethane	5000	U	5000	1200	5000	02/04/20 13:49	
Bromodichloromethane	5000	U	5000	1100	5000	02/04/20 13:49	
Bromoform	5000	U	5000	1300	5000	02/04/20 13:49	
Bromomethane	5000	U	5000	3500	5000	02/04/20 13:49	
Carbon Disulfide	5000	U	5000	1300	5000	02/04/20 13:49	
Carbon Tetrachloride	5000	U	5000	1700	5000	02/04/20 13:49	
Chlorobenzene	5000	U	5000	1000	5000	02/04/20 13:49	
Chloroethane	5000	U	5000	1200	5000	02/04/20 13:49	
Chloroform	5000	U	5000	1200	5000	02/04/20 13:49	
Chloromethane	5000	U	5000	1400	5000	02/04/20 13:49	
Cyclohexane	5000	U	5000	1300	5000	02/04/20 13:49	
Dibromochloromethane	5000	U	5000	1000	5000	02/04/20 13:49	
Dichlorodifluoromethane (CFC 12)	5000	U	5000	1100	5000	02/04/20 13:49	
Dichloromethane	5000	U	5000	1800	5000	02/04/20 13:49	
Ethylbenzene	**4800**	**DJ**	5000	1000	5000	02/04/20 13:49	
Isopropylbenzene (Cumene)	5000	U	5000	1000	5000	02/04/20 13:49	
Methyl Acetate	10000	U	10000	1700	5000	02/04/20 13:49	
Methyl tert-Butyl Ether	5000	U	5000	1000	5000	02/04/20 13:49	
Methylcyclohexane	5000	U	5000	1000	5000	02/04/20 13:49	
Styrene	5000	U	5000	1000	5000	02/04/20 13:49	
Tetrachloroethene (PCE)	5000	U	5000	1100	5000	02/04/20 13:49	
Toluene	**55000**	**D**	5000	1000	5000	02/04/20 13:49	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 09:00
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW4	**Units:**	ug/L
Lab Code:	R2000775-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5000 U	5000	1000	5000	02/04/20 13:49	
Trichlorofluoromethane (CFC 11)	5000 U	5000	1200	5000	02/04/20 13:49	
Vinyl Chloride	5000 U	5000	1000	5000	02/04/20 13:49	
cis-1,2-Dichloroethene	5000 U	5000	1200	5000	02/04/20 13:49	
cis-1,3-Dichloropropene	5000 U	5000	1000	5000	02/04/20 13:49	
m,p-Xylenes	**20000 D**	10000	1000	5000	02/04/20 13:49	
o-Xylene	**3300 DJ**	5000	1000	5000	02/04/20 13:49	
trans-1,2-Dichloroethene	5000 U	5000	1000	5000	02/04/20 13:49	
trans-1,3-Dichloropropene	5000 U	5000	1200	5000	02/04/20 13:49	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	02/04/20 13:49	
Dibromofluoromethane	97	89 - 119	02/04/20 13:49	
Toluene-d8	100	87 - 121	02/04/20 13:49	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 09:00
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW4 FP	**Units:**	ug/L
Lab Code:	R2000775-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	500	U	500	110	500	02/03/20 20:35	
1,1,2,2-Tetrachloroethane	500	U	500	100	500	02/03/20 20:35	
1,1,2-Trichloroethane	500	U	500	100	500	02/03/20 20:35	
1,1,2-Trichloro-1,2,2-trifluoroethane	500	U	500	100	500	02/03/20 20:35	
1,1-Dichloroethane (1,1-DCA)	500	U	500	100	500	02/03/20 20:35	
1,1-Dichloroethene (1,1-DCE)	500	U	500	130	500	02/03/20 20:35	
1,2,3-Trichlorobenzene	500	U	500	100	500	02/03/20 20:35	
1,2,4-Trichlorobenzene	500	U	500	130	500	02/03/20 20:35	
1,2-Dibromo-3-chloropropane (DBCP)	1000	U	1000	230	500	02/03/20 20:35	
1,2-Dibromoethane	500	U	500	100	500	02/03/20 20:35	
1,2-Dichlorobenzene	500	U	500	100	500	02/03/20 20:35	
1,2-Dichloroethane	500	U	500	100	500	02/03/20 20:35	
1,2-Dichloropropane	500	U	500	100	500	02/03/20 20:35	
1,3-Dichlorobenzene	500	U	500	100	500	02/03/20 20:35	
1,4-Dichlorobenzene	500	U	500	100	500	02/03/20 20:35	
1,4-Dioxane	20000	U	20000	6500	500	02/03/20 20:35	
2-Butanone (MEK)	**590000**	**E**	2500	390	500	02/03/20 20:35	
2-Hexanone	2500	U	2500	100	500	02/03/20 20:35	
4-Methyl-2-pentanone	**24000**		2500	100	500	02/03/20 20:35	
Acetone	**10000**		2500	1100	500	02/03/20 20:35	
Benzene	500	U	500	100	500	02/03/20 20:35	
Bromochloromethane	500	U	500	120	500	02/03/20 20:35	
Bromodichloromethane	**260**	**J**	500	110	500	02/03/20 20:35	
Bromoform	500	U	500	130	500	02/03/20 20:35	
Bromomethane	500	U	500	350	500	02/03/20 20:35	
Carbon Disulfide	500	U	500	130	500	02/03/20 20:35	
Carbon Tetrachloride	500	U	500	170	500	02/03/20 20:35	
Chlorobenzene	500	U	500	100	500	02/03/20 20:35	
Chloroethane	500	U	500	120	500	02/03/20 20:35	
Chloroform	**980**		500	120	500	02/03/20 20:35	
Chloromethane	500	U	500	140	500	02/03/20 20:35	
Cyclohexane	500	U	500	130	500	02/03/20 20:35	
Dibromochloromethane	500	U	500	100	500	02/03/20 20:35	
Dichlorodifluoromethane (CFC 12)	500	U	500	110	500	02/03/20 20:35	
Dichloromethane	**250**	**J**	500	180	500	02/03/20 20:35	
Ethylbenzene	**2000**		500	100	500	02/03/20 20:35	
Isopropylbenzene (Cumene)	500	U	500	100	500	02/03/20 20:35	
Methyl Acetate	1000	U	1000	170	500	02/03/20 20:35	
Methyl tert-Butyl Ether	500	U	500	100	500	02/03/20 20:35	
Methylcyclohexane	500	U	500	100	500	02/03/20 20:35	
Styrene	500	U	500	100	500	02/03/20 20:35	
Tetrachloroethene (PCE)	500	U	500	110	500	02/03/20 20:35	
Toluene	**25000**		500	100	500	02/03/20 20:35	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 09:00
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW4 FP	**Units:**	ug/L
Lab Code:	R2000775-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	500 U	500	100	500	02/03/20 20:35	
Trichlorofluoromethane (CFC 11)	500 U	500	120	500	02/03/20 20:35	
Vinyl Chloride	500 U	500	100	500	02/03/20 20:35	
cis-1,2-Dichloroethene	500 U	500	120	500	02/03/20 20:35	
cis-1,3-Dichloropropene	500 U	500	100	500	02/03/20 20:35	
m,p-Xylenes	**7800**	1000	100	500	02/03/20 20:35	
o-Xylene	**1100**	500	100	500	02/03/20 20:35	
trans-1,2-Dichloroethene	500 U	500	100	500	02/03/20 20:35	
trans-1,3-Dichloropropene	500 U	500	120	500	02/03/20 20:35	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	02/03/20 20:35	
Dibromofluoromethane	98	89 - 119	02/03/20 20:35	
Toluene-d8	101	87 - 121	02/03/20 20:35	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 09:00
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW4 FP	**Units:**	ug/L
Lab Code:	R2000775-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5000	U	5000	1100	5000	02/04/20 14:11	
1,1,2,2-Tetrachloroethane	5000	U	5000	1000	5000	02/04/20 14:11	
1,1,2-Trichloroethane	5000	U	5000	1000	5000	02/04/20 14:11	
1,1,2-Trichloro-1,2,2-trifluoroethane	5000	U	5000	1000	5000	02/04/20 14:11	
1,1-Dichloroethane (1,1-DCA)	5000	U	5000	1000	5000	02/04/20 14:11	
1,1-Dichloroethene (1,1-DCE)	5000	U	5000	1300	5000	02/04/20 14:11	
1,2,3-Trichlorobenzene	5000	U	5000	1000	5000	02/04/20 14:11	
1,2,4-Trichlorobenzene	5000	U	5000	1300	5000	02/04/20 14:11	
1,2-Dibromo-3-chloropropane (DBCP)	10000	U	10000	2300	5000	02/04/20 14:11	
1,2-Dibromoethane	5000	U	5000	1000	5000	02/04/20 14:11	
1,2-Dichlorobenzene	5000	U	5000	1000	5000	02/04/20 14:11	
1,2-Dichloroethane	5000	U	5000	1000	5000	02/04/20 14:11	
1,2-Dichloropropane	5000	U	5000	1000	5000	02/04/20 14:11	
1,3-Dichlorobenzene	5000	U	5000	1000	5000	02/04/20 14:11	
1,4-Dichlorobenzene	5000	U	5000	1000	5000	02/04/20 14:11	
1,4-Dioxane	200000	U	200000	65000	5000	02/04/20 14:11	
2-Butanone (MEK)	**590000**	**D**	25000	3900	5000	02/04/20 14:11	
2-Hexanone	25000	U	25000	1000	5000	02/04/20 14:11	
4-Methyl-2-pentanone	**23000**	**DJ**	25000	1000	5000	02/04/20 14:11	
Acetone	**12000**	**DJ**	25000	11000	5000	02/04/20 14:11	
Benzene	5000	U	5000	1000	5000	02/04/20 14:11	
Bromochloromethane	5000	U	5000	1200	5000	02/04/20 14:11	
Bromodichloromethane	5000	U	5000	1100	5000	02/04/20 14:11	
Bromoform	5000	U	5000	1300	5000	02/04/20 14:11	
Bromomethane	5000	U	5000	3500	5000	02/04/20 14:11	
Carbon Disulfide	5000	U	5000	1300	5000	02/04/20 14:11	
Carbon Tetrachloride	5000	U	5000	1700	5000	02/04/20 14:11	
Chlorobenzene	5000	U	5000	1000	5000	02/04/20 14:11	
Chloroethane	5000	U	5000	1200	5000	02/04/20 14:11	
Chloroform	**1400**	**DJ**	5000	1200	5000	02/04/20 14:11	
Chloromethane	5000	U	5000	1400	5000	02/04/20 14:11	
Cyclohexane	5000	U	5000	1300	5000	02/04/20 14:11	
Dibromochloromethane	5000	U	5000	1000	5000	02/04/20 14:11	
Dichlorodifluoromethane (CFC 12)	5000	U	5000	1100	5000	02/04/20 14:11	
Dichloromethane	5000	U	5000	1800	5000	02/04/20 14:11	
Ethylbenzene	**4800**	**DJ**	5000	1000	5000	02/04/20 14:11	
Isopropylbenzene (Cumene)	5000	U	5000	1000	5000	02/04/20 14:11	
Methyl Acetate	10000	U	10000	1700	5000	02/04/20 14:11	
Methyl tert-Butyl Ether	5000	U	5000	1000	5000	02/04/20 14:11	
Methylcyclohexane	5000	U	5000	1000	5000	02/04/20 14:11	
Styrene	5000	U	5000	1000	5000	02/04/20 14:11	
Tetrachloroethene (PCE)	5000	U	5000	1100	5000	02/04/20 14:11	
Toluene	**31000**	**D**	5000	1000	5000	02/04/20 14:11	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 09:00
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW4 FP	**Units:**	ug/L
Lab Code:	R2000775-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5000	U	5000	1000	5000	02/04/20 14:11	
Trichlorofluoromethane (CFC 11)	5000	U	5000	1200	5000	02/04/20 14:11	
Vinyl Chloride	5000	U	5000	1000	5000	02/04/20 14:11	
cis-1,2-Dichloroethene	5000	U	5000	1200	5000	02/04/20 14:11	
cis-1,3-Dichloropropene	5000	U	5000	1000	5000	02/04/20 14:11	
m,p-Xylenes	**23000**	**D**	10000	1000	5000	02/04/20 14:11	
o-Xylene	**2900**	**DJ**	5000	1000	5000	02/04/20 14:11	
trans-1,2-Dichloroethene	5000	U	5000	1000	5000	02/04/20 14:11	
trans-1,3-Dichloropropene	5000	U	5000	1200	5000	02/04/20 14:11	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	02/04/20 14:11	
Dibromofluoromethane	95	89 - 119	02/04/20 14:11	
Toluene-d8	98	87 - 121	02/04/20 14:11	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/28/20 10:35
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW1	**Units:**	ug/L
Lab Code:	R2000775-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.21	1	02/03/20 18:02	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	02/03/20 18:02	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	02/03/20 18:02	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	02/03/20 18:02	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	02/03/20 18:02	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.25	1	02/03/20 18:02	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.20	1	02/03/20 18:02	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.25	1	02/03/20 18:02	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	02/03/20 18:02	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	02/03/20 18:02	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	02/03/20 18:02	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	02/03/20 18:02	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	02/03/20 18:02	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	02/03/20 18:02	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	02/03/20 18:02	
1,4-Dioxane	40 U	40	13	1	02/03/20 18:02	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	02/03/20 18:02	
2-Hexanone	5.0 U	5.0	0.20	1	02/03/20 18:02	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	02/03/20 18:02	
Acetone	**2.9 BJ**	5.0	2.1	1	02/03/20 18:02	
Benzene	1.0 U	1.0	0.20	1	02/03/20 18:02	
Bromochloromethane	1.0 U	1.0	0.24	1	02/03/20 18:02	
Bromodichloromethane	1.0 U	1.0	0.22	1	02/03/20 18:02	
Bromoform	1.0 U	1.0	0.25	1	02/03/20 18:02	
Bromomethane	1.0 U	1.0	0.70	1	02/03/20 18:02	
Carbon Disulfide	1.0 U	1.0	0.25	1	02/03/20 18:02	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	02/03/20 18:02	
Chlorobenzene	1.0 U	1.0	0.20	1	02/03/20 18:02	
Chloroethane	1.0 U	1.0	0.23	1	02/03/20 18:02	
Chloroform	1.0 U	1.0	0.24	1	02/03/20 18:02	
Chloromethane	**0.32 J**	1.0	0.28	1	02/03/20 18:02	
Cyclohexane	1.0 U	1.0	0.26	1	02/03/20 18:02	
Dibromochloromethane	1.0 U	1.0	0.20	1	02/03/20 18:02	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	02/03/20 18:02	
Dichloromethane	1.0 U	1.0	0.36	1	02/03/20 18:02	
Ethylbenzene	1.0 U	1.0	0.20	1	02/03/20 18:02	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	02/03/20 18:02	
Methyl Acetate	2.0 U	2.0	0.33	1	02/03/20 18:02	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	02/03/20 18:02	
Methylcyclohexane	1.0 U	1.0	0.20	1	02/03/20 18:02	
Styrene	1.0 U	1.0	0.20	1	02/03/20 18:02	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/03/20 18:02	
Toluene	1.0 U	1.0	0.20	1	02/03/20 18:02	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/28/20 10:35
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW1	**Units:**	ug/L
Lab Code:	R2000775-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	02/03/20 18:02	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	02/03/20 18:02	
Vinyl Chloride	1.0 U	1.0	0.20	1	02/03/20 18:02	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	02/03/20 18:02	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	02/03/20 18:02	
m,p-Xylenes	2.0 U	2.0	0.20	1	02/03/20 18:02	
o-Xylene	1.0 U	1.0	0.20	1	02/03/20 18:02	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/03/20 18:02	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	02/03/20 18:02	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	02/03/20 18:02	
Dibromofluoromethane	96	89 - 119	02/03/20 18:02	
Toluene-d8	99	87 - 121	02/03/20 18:02	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 09:35
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW2	**Units:**	ug/L
Lab Code:	R2000775-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.21	1	02/03/20 18:24	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	02/03/20 18:24	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	02/03/20 18:24	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	02/03/20 18:24	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	02/03/20 18:24	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.25	1	02/03/20 18:24	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.20	1	02/03/20 18:24	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.25	1	02/03/20 18:24	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	02/03/20 18:24	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	02/03/20 18:24	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	02/03/20 18:24	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	02/03/20 18:24	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	02/03/20 18:24	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	02/03/20 18:24	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	02/03/20 18:24	
1,4-Dioxane	40 U	40	13	1	02/03/20 18:24	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	02/03/20 18:24	
2-Hexanone	5.0 U	5.0	0.20	1	02/03/20 18:24	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	02/03/20 18:24	
Acetone	**2.5 BJ**	5.0	2.1	1	02/03/20 18:24	
Benzene	1.0 U	1.0	0.20	1	02/03/20 18:24	
Bromochloromethane	1.0 U	1.0	0.24	1	02/03/20 18:24	
Bromodichloromethane	1.0 U	1.0	0.22	1	02/03/20 18:24	
Bromoform	1.0 U	1.0	0.25	1	02/03/20 18:24	
Bromomethane	1.0 U	1.0	0.70	1	02/03/20 18:24	
Carbon Disulfide	1.0 U	1.0	0.25	1	02/03/20 18:24	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	02/03/20 18:24	
Chlorobenzene	1.0 U	1.0	0.20	1	02/03/20 18:24	
Chloroethane	1.0 U	1.0	0.23	1	02/03/20 18:24	
Chloroform	1.0 U	1.0	0.24	1	02/03/20 18:24	
Chloromethane	**0.53 J**	1.0	0.28	1	02/03/20 18:24	
Cyclohexane	1.0 U	1.0	0.26	1	02/03/20 18:24	
Dibromochloromethane	1.0 U	1.0	0.20	1	02/03/20 18:24	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	02/03/20 18:24	
Dichloromethane	1.0 U	1.0	0.36	1	02/03/20 18:24	
Ethylbenzene	1.0 U	1.0	0.20	1	02/03/20 18:24	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	02/03/20 18:24	
Methyl Acetate	2.0 U	2.0	0.33	1	02/03/20 18:24	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	02/03/20 18:24	
Methylcyclohexane	1.0 U	1.0	0.20	1	02/03/20 18:24	
Styrene	1.0 U	1.0	0.20	1	02/03/20 18:24	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/03/20 18:24	
Toluene	1.0 U	1.0	0.20	1	02/03/20 18:24	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 09:35
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW2	**Units:**	ug/L
Lab Code:	R2000775-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	**8.1**	1.0	0.20	1	02/03/20 18:24	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	02/03/20 18:24	
Vinyl Chloride	**0.37 J**	1.0	0.20	1	02/03/20 18:24	
cis-1,2-Dichloroethene	**13**	1.0	0.23	1	02/03/20 18:24	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	02/03/20 18:24	
m,p-Xylenes	2.0 U	2.0	0.20	1	02/03/20 18:24	
o-Xylene	1.0 U	1.0	0.20	1	02/03/20 18:24	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/03/20 18:24	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	02/03/20 18:24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	02/03/20 18:24	
Dibromofluoromethane	95	89 - 119	02/03/20 18:24	
Toluene-d8	96	87 - 121	02/03/20 18:24	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 12:45
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW5	**Units:**	ug/L
Lab Code:	R2000775-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.21	1	02/03/20 18:46	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	02/03/20 18:46	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	02/03/20 18:46	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	02/03/20 18:46	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	02/03/20 18:46	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.25	1	02/03/20 18:46	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.20	1	02/03/20 18:46	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.25	1	02/03/20 18:46	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	02/03/20 18:46	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	02/03/20 18:46	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	02/03/20 18:46	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	02/03/20 18:46	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	02/03/20 18:46	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	02/03/20 18:46	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	02/03/20 18:46	
1,4-Dioxane	40 U	40	13	1	02/03/20 18:46	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	02/03/20 18:46	
2-Hexanone	5.0 U	5.0	0.20	1	02/03/20 18:46	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	02/03/20 18:46	
Acetone	5.0 U	5.0	2.1	1	02/03/20 18:46	
Benzene	1.0 U	1.0	0.20	1	02/03/20 18:46	
Bromochloromethane	1.0 U	1.0	0.24	1	02/03/20 18:46	
Bromodichloromethane	1.0 U	1.0	0.22	1	02/03/20 18:46	
Bromoform	1.0 U	1.0	0.25	1	02/03/20 18:46	
Bromomethane	1.0 U	1.0	0.70	1	02/03/20 18:46	
Carbon Disulfide	1.0 U	1.0	0.25	1	02/03/20 18:46	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	02/03/20 18:46	
Chlorobenzene	1.0 U	1.0	0.20	1	02/03/20 18:46	
Chloroethane	1.0 U	1.0	0.23	1	02/03/20 18:46	
Chloroform	1.0 U	1.0	0.24	1	02/03/20 18:46	
Chloromethane	1.0 U	1.0	0.28	1	02/03/20 18:46	
Cyclohexane	1.0 U	1.0	0.26	1	02/03/20 18:46	
Dibromochloromethane	1.0 U	1.0	0.20	1	02/03/20 18:46	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	02/03/20 18:46	
Dichloromethane	1.0 U	1.0	0.36	1	02/03/20 18:46	
Ethylbenzene	1.0 U	1.0	0.20	1	02/03/20 18:46	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	02/03/20 18:46	
Methyl Acetate	2.0 U	2.0	0.33	1	02/03/20 18:46	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	02/03/20 18:46	
Methylcyclohexane	1.0 U	1.0	0.20	1	02/03/20 18:46	
Styrene	1.0 U	1.0	0.20	1	02/03/20 18:46	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/03/20 18:46	
Toluene	1.0 U	1.0	0.20	1	02/03/20 18:46	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 12:45
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW5	**Units:**	ug/L
Lab Code:	R2000775-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	02/03/20 18:46	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	02/03/20 18:46	
Vinyl Chloride	1.0 U	1.0	0.20	1	02/03/20 18:46	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	02/03/20 18:46	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	02/03/20 18:46	
m,p-Xylenes	2.0 U	2.0	0.20	1	02/03/20 18:46	
o-Xylene	1.0 U	1.0	0.20	1	02/03/20 18:46	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/03/20 18:46	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	02/03/20 18:46	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	02/03/20 18:46	
Dibromofluoromethane	92	89 - 119	02/03/20 18:46	
Toluene-d8	94	87 - 121	02/03/20 18:46	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 13:44
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	Equipment Blank	**Units:**	ug/L
Lab Code:	R2000775-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.21	1	02/03/20 17:40	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	02/03/20 17:40	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	02/03/20 17:40	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	02/03/20 17:40	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	02/03/20 17:40	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.25	1	02/03/20 17:40	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.20	1	02/03/20 17:40	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.25	1	02/03/20 17:40	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	02/03/20 17:40	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	02/03/20 17:40	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	02/03/20 17:40	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	02/03/20 17:40	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	02/03/20 17:40	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	02/03/20 17:40	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	02/03/20 17:40	
1,4-Dioxane	40 U	40	13	1	02/03/20 17:40	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	02/03/20 17:40	
2-Hexanone	5.0 U	5.0	0.20	1	02/03/20 17:40	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	02/03/20 17:40	
Acetone	5.0 U	5.0	2.1	1	02/03/20 17:40	
Benzene	1.0 U	1.0	0.20	1	02/03/20 17:40	
Bromochloromethane	1.0 U	1.0	0.24	1	02/03/20 17:40	
Bromodichloromethane	1.0 U	1.0	0.22	1	02/03/20 17:40	
Bromoform	1.0 U	1.0	0.25	1	02/03/20 17:40	
Bromomethane	1.0 U	1.0	0.70	1	02/03/20 17:40	
Carbon Disulfide	1.0 U	1.0	0.25	1	02/03/20 17:40	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	02/03/20 17:40	
Chlorobenzene	1.0 U	1.0	0.20	1	02/03/20 17:40	
Chloroethane	1.0 U	1.0	0.23	1	02/03/20 17:40	
Chloroform	1.0 U	1.0	0.24	1	02/03/20 17:40	
Chloromethane	1.0 U	1.0	0.28	1	02/03/20 17:40	
Cyclohexane	1.0 U	1.0	0.26	1	02/03/20 17:40	
Dibromochloromethane	1.0 U	1.0	0.20	1	02/03/20 17:40	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	02/03/20 17:40	
Dichloromethane	1.0 U	1.0	0.36	1	02/03/20 17:40	
Ethylbenzene	1.0 U	1.0	0.20	1	02/03/20 17:40	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	02/03/20 17:40	
Methyl Acetate	2.0 U	2.0	0.33	1	02/03/20 17:40	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	02/03/20 17:40	
Methylcyclohexane	1.0 U	1.0	0.20	1	02/03/20 17:40	
Styrene	1.0 U	1.0	0.20	1	02/03/20 17:40	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/03/20 17:40	
Toluene	**1.3**	1.0	0.20	1	02/03/20 17:40	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 13:44
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	Equipment Blank	**Units:**	ug/L
Lab Code:	R2000775-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	02/03/20 17:40	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	02/03/20 17:40	
Vinyl Chloride	1.0 U	1.0	0.20	1	02/03/20 17:40	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	02/03/20 17:40	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	02/03/20 17:40	
m,p-Xylenes	2.0 U	2.0	0.20	1	02/03/20 17:40	
o-Xylene	1.0 U	1.0	0.20	1	02/03/20 17:40	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/03/20 17:40	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	02/03/20 17:40	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	02/03/20 17:40	
Dibromofluoromethane	94	89 - 119	02/03/20 17:40	
Toluene-d8	97	87 - 121	02/03/20 17:40	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 12:12
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	Trip Blank	**Units:**	ug/L
Lab Code:	R2000775-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.21	1	02/03/20 17:18	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	02/03/20 17:18	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	02/03/20 17:18	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	02/03/20 17:18	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	02/03/20 17:18	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.25	1	02/03/20 17:18	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.20	1	02/03/20 17:18	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.25	1	02/03/20 17:18	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	02/03/20 17:18	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	02/03/20 17:18	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	02/03/20 17:18	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	02/03/20 17:18	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	02/03/20 17:18	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	02/03/20 17:18	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	02/03/20 17:18	
1,4-Dioxane	40 U	40	13	1	02/03/20 17:18	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	02/03/20 17:18	
2-Hexanone	5.0 U	5.0	0.20	1	02/03/20 17:18	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	02/03/20 17:18	
Acetone	5.0 U	5.0	2.1	1	02/03/20 17:18	
Benzene	1.0 U	1.0	0.20	1	02/03/20 17:18	
Bromochloromethane	1.0 U	1.0	0.24	1	02/03/20 17:18	
Bromodichloromethane	1.0 U	1.0	0.22	1	02/03/20 17:18	
Bromoform	1.0 U	1.0	0.25	1	02/03/20 17:18	
Bromomethane	1.0 U	1.0	0.70	1	02/03/20 17:18	
Carbon Disulfide	1.0 U	1.0	0.25	1	02/03/20 17:18	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	02/03/20 17:18	
Chlorobenzene	1.0 U	1.0	0.20	1	02/03/20 17:18	
Chloroethane	1.0 U	1.0	0.23	1	02/03/20 17:18	
Chloroform	1.0 U	1.0	0.24	1	02/03/20 17:18	
Chloromethane	1.0 U	1.0	0.28	1	02/03/20 17:18	
Cyclohexane	1.0 U	1.0	0.26	1	02/03/20 17:18	
Dibromochloromethane	1.0 U	1.0	0.20	1	02/03/20 17:18	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	02/03/20 17:18	
Dichloromethane	1.0 U	1.0	0.36	1	02/03/20 17:18	
Ethylbenzene	1.0 U	1.0	0.20	1	02/03/20 17:18	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	02/03/20 17:18	
Methyl Acetate	2.0 U	2.0	0.33	1	02/03/20 17:18	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	02/03/20 17:18	
Methylcyclohexane	1.0 U	1.0	0.20	1	02/03/20 17:18	
Styrene	1.0 U	1.0	0.20	1	02/03/20 17:18	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/03/20 17:18	
Toluene	1.0 U	1.0	0.20	1	02/03/20 17:18	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 12:12
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	Trip Blank	**Units:**	ug/L
Lab Code:	R2000775-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	02/03/20 17:18	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	02/03/20 17:18	
Vinyl Chloride	1.0 U	1.0	0.20	1	02/03/20 17:18	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	02/03/20 17:18	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	02/03/20 17:18	
m,p-Xylenes	2.0 U	2.0	0.20	1	02/03/20 17:18	
o-Xylene	1.0 U	1.0	0.20	1	02/03/20 17:18	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/03/20 17:18	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	02/03/20 17:18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	02/03/20 17:18	
Dibromofluoromethane	96	89 - 119	02/03/20 17:18	
Toluene-d8	100	87 - 121	02/03/20 17:18	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 09:58
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW2 DUP	**Units:**	ug/L
Lab Code:	R2000775-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.21	1	02/03/20 19:08	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	02/03/20 19:08	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	02/03/20 19:08	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	02/03/20 19:08	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	02/03/20 19:08	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.25	1	02/03/20 19:08	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.20	1	02/03/20 19:08	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.25	1	02/03/20 19:08	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	02/03/20 19:08	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	02/03/20 19:08	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	02/03/20 19:08	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	02/03/20 19:08	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	02/03/20 19:08	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	02/03/20 19:08	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	02/03/20 19:08	
1,4-Dioxane	40 U	40	13	1	02/03/20 19:08	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	02/03/20 19:08	
2-Hexanone	5.0 U	5.0	0.20	1	02/03/20 19:08	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	02/03/20 19:08	
Acetone	**2.6 BJ**	5.0	2.1	1	02/03/20 19:08	
Benzene	1.0 U	1.0	0.20	1	02/03/20 19:08	
Bromochloromethane	1.0 U	1.0	0.24	1	02/03/20 19:08	
Bromodichloromethane	1.0 U	1.0	0.22	1	02/03/20 19:08	
Bromoform	1.0 U	1.0	0.25	1	02/03/20 19:08	
Bromomethane	1.0 U	1.0	0.70	1	02/03/20 19:08	
Carbon Disulfide	1.0 U	1.0	0.25	1	02/03/20 19:08	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	02/03/20 19:08	
Chlorobenzene	1.0 U	1.0	0.20	1	02/03/20 19:08	
Chloroethane	1.0 U	1.0	0.23	1	02/03/20 19:08	
Chloroform	1.0 U	1.0	0.24	1	02/03/20 19:08	
Chloromethane	**0.32 J**	1.0	0.28	1	02/03/20 19:08	
Cyclohexane	1.0 U	1.0	0.26	1	02/03/20 19:08	
Dibromochloromethane	1.0 U	1.0	0.20	1	02/03/20 19:08	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	02/03/20 19:08	
Dichloromethane	1.0 U	1.0	0.36	1	02/03/20 19:08	
Ethylbenzene	1.0 U	1.0	0.20	1	02/03/20 19:08	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	02/03/20 19:08	
Methyl Acetate	2.0 U	2.0	0.33	1	02/03/20 19:08	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	02/03/20 19:08	
Methylcyclohexane	1.0 U	1.0	0.20	1	02/03/20 19:08	
Styrene	1.0 U	1.0	0.20	1	02/03/20 19:08	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/03/20 19:08	
Toluene	1.0 U	1.0	0.20	1	02/03/20 19:08	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 09:58
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW2 DUP	**Units:**	ug/L
Lab Code:	R2000775-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	**1.8**	1.0	0.20	1	02/03/20 19:08	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	02/03/20 19:08	
Vinyl Chloride	1.0 U	1.0	0.20	1	02/03/20 19:08	
cis-1,2-Dichloroethene	**2.8**	1.0	0.23	1	02/03/20 19:08	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	02/03/20 19:08	
m,p-Xylenes	2.0 U	2.0	0.20	1	02/03/20 19:08	
o-Xylene	1.0 U	1.0	0.20	1	02/03/20 19:08	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/03/20 19:08	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	02/03/20 19:08	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	02/03/20 19:08	
Dibromofluoromethane	94	89 - 119	02/03/20 19:08	
Toluene-d8	97	87 - 121	02/03/20 19:08	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 11:35
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW3	**Units:**	ug/L
Lab Code:	R2000775-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	250	U	250	53	250	02/03/20 19:51	
1,1,2,2-Tetrachloroethane	250	U	250	50	250	02/03/20 19:51	
1,1,2-Trichloroethane	250	U	250	50	250	02/03/20 19:51	
1,1,2-Trichloro-1,2,2-trifluoroethane	250	U	250	50	250	02/03/20 19:51	
1,1-Dichloroethane (1,1-DCA)	250	U	250	50	250	02/03/20 19:51	
1,1-Dichloroethene (1,1-DCE)	250	U	250	63	250	02/03/20 19:51	
1,2,3-Trichlorobenzene	250	U	250	50	250	02/03/20 19:51	
1,2,4-Trichlorobenzene	250	U	250	63	250	02/03/20 19:51	
1,2-Dibromo-3-chloropropane (DBCP)	500	U	500	120	250	02/03/20 19:51	
1,2-Dibromoethane	250	U	250	50	250	02/03/20 19:51	
1,2-Dichlorobenzene	250	U	250	50	250	02/03/20 19:51	
1,2-Dichloroethane	250	U	250	50	250	02/03/20 19:51	
1,2-Dichloropropane	**140**	**J**	250	50	250	02/03/20 19:51	
1,3-Dichlorobenzene	250	U	250	50	250	02/03/20 19:51	
1,4-Dichlorobenzene	250	U	250	50	250	02/03/20 19:51	
1,4-Dioxane	10000	U	10000	3300	250	02/03/20 19:51	
2-Butanone (MEK)	**56000**	**E**	1300	200	250	02/03/20 19:51	
2-Hexanone	1300	U	1300	50	250	02/03/20 19:51	
4-Methyl-2-pentanone	**5300**		1300	50	250	02/03/20 19:51	
Acetone	**1100**	**J**	1300	530	250	02/03/20 19:51	
Benzene	**68**	**J**	250	50	250	02/03/20 19:51	
Bromochloromethane	250	U	250	60	250	02/03/20 19:51	
Bromodichloromethane	250	U	250	55	250	02/03/20 19:51	
Bromoform	250	U	250	63	250	02/03/20 19:51	
Bromomethane	250	U	250	180	250	02/03/20 19:51	
Carbon Disulfide	250	U	250	63	250	02/03/20 19:51	
Carbon Tetrachloride	250	U	250	85	250	02/03/20 19:51	
Chlorobenzene	250	U	250	50	250	02/03/20 19:51	
Chloroethane	250	U	250	58	250	02/03/20 19:51	
Chloroform	**180**	**J**	250	60	250	02/03/20 19:51	
Chloromethane	250	U	250	70	250	02/03/20 19:51	
Cyclohexane	250	U	250	65	250	02/03/20 19:51	
Dibromochloromethane	250	U	250	50	250	02/03/20 19:51	
Dichlorodifluoromethane (CFC 12)	250	U	250	53	250	02/03/20 19:51	
Dichloromethane	**250**	**J**	250	90	250	02/03/20 19:51	
Ethylbenzene	**860**		250	50	250	02/03/20 19:51	
Isopropylbenzene (Cumene)	250	U	250	50	250	02/03/20 19:51	
Methyl Acetate	500	U	500	83	250	02/03/20 19:51	
Methyl tert-Butyl Ether	250	U	250	50	250	02/03/20 19:51	
Methylcyclohexane	250	U	250	50	250	02/03/20 19:51	
Styrene	250	U	250	50	250	02/03/20 19:51	
Tetrachloroethene (PCE)	250	U	250	53	250	02/03/20 19:51	
Toluene	**15000**		250	50	250	02/03/20 19:51	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 11:35
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW3	**Units:**	ug/L
Lab Code:	R2000775-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	250 U	250	50	250	02/03/20 19:51	
Trichlorofluoromethane (CFC 11)	250 U	250	60	250	02/03/20 19:51	
Vinyl Chloride	250 U	250	50	250	02/03/20 19:51	
cis-1,2-Dichloroethene	250 U	250	58	250	02/03/20 19:51	
cis-1,3-Dichloropropene	250 U	250	50	250	02/03/20 19:51	
m,p-Xylenes	**3200**	500	50	250	02/03/20 19:51	
o-Xylene	**990**	250	50	250	02/03/20 19:51	
trans-1,2-Dichloroethene	250 U	250	50	250	02/03/20 19:51	
trans-1,3-Dichloropropene	250 U	250	58	250	02/03/20 19:51	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	02/03/20 19:51	
Dibromofluoromethane	93	89 - 119	02/03/20 19:51	
Toluene-d8	97	87 - 121	02/03/20 19:51	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 11:35
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW3	**Units:**	ug/L
Lab Code:	R2000775-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	500 U	500	110	500	02/04/20 13:27	
1,1,2,2-Tetrachloroethane	500 U	500	100	500	02/04/20 13:27	
1,1,2-Trichloroethane	500 U	500	100	500	02/04/20 13:27	
1,1,2-Trichloro-1,2,2-trifluoroethane	500 U	500	100	500	02/04/20 13:27	
1,1-Dichloroethane (1,1-DCA)	500 U	500	100	500	02/04/20 13:27	
1,1-Dichloroethene (1,1-DCE)	500 U	500	130	500	02/04/20 13:27	
1,2,3-Trichlorobenzene	500 U	500	100	500	02/04/20 13:27	
1,2,4-Trichlorobenzene	500 U	500	130	500	02/04/20 13:27	
1,2-Dibromo-3-chloropropane (DBCP)	1000 U	1000	230	500	02/04/20 13:27	
1,2-Dibromoethane	500 U	500	100	500	02/04/20 13:27	
1,2-Dichlorobenzene	500 U	500	100	500	02/04/20 13:27	
1,2-Dichloroethane	500 U	500	100	500	02/04/20 13:27	
1,2-Dichloropropane	**160 DJ**	500	100	500	02/04/20 13:27	
1,3-Dichlorobenzene	500 U	500	100	500	02/04/20 13:27	
1,4-Dichlorobenzene	500 U	500	100	500	02/04/20 13:27	
1,4-Dioxane	20000 U	20000	6500	500	02/04/20 13:27	
2-Butanone (MEK)	**52000 D**	2500	390	500	02/04/20 13:27	
2-Hexanone	2500 U	2500	100	500	02/04/20 13:27	
4-Methyl-2-pentanone	**4900 D**	2500	100	500	02/04/20 13:27	
Acetone	**1300 DJ**	2500	1100	500	02/04/20 13:27	
Benzene	500 U	500	100	500	02/04/20 13:27	
Bromochloromethane	500 U	500	120	500	02/04/20 13:27	
Bromodichloromethane	**130 DJ**	500	110	500	02/04/20 13:27	
Bromoform	500 U	500	130	500	02/04/20 13:27	
Bromomethane	500 U	500	350	500	02/04/20 13:27	
Carbon Disulfide	500 U	500	130	500	02/04/20 13:27	
Carbon Tetrachloride	500 U	500	170	500	02/04/20 13:27	
Chlorobenzene	500 U	500	100	500	02/04/20 13:27	
Chloroethane	500 U	500	120	500	02/04/20 13:27	
Chloroform	**620 D**	500	120	500	02/04/20 13:27	
Chloromethane	500 U	500	140	500	02/04/20 13:27	
Cyclohexane	500 U	500	130	500	02/04/20 13:27	
Dibromochloromethane	500 U	500	100	500	02/04/20 13:27	
Dichlorodifluoromethane (CFC 12)	500 U	500	110	500	02/04/20 13:27	
Dichloromethane	**250 J**	500	180	500	02/04/20 13:27	
Ethylbenzene	**900 D**	500	100	500	02/04/20 13:27	
Isopropylbenzene (Cumene)	500 U	500	100	500	02/04/20 13:27	
Methyl Acetate	1000 U	1000	170	500	02/04/20 13:27	
Methyl tert-Butyl Ether	500 U	500	100	500	02/04/20 13:27	
Methylcyclohexane	500 U	500	100	500	02/04/20 13:27	
Styrene	500 U	500	100	500	02/04/20 13:27	
Tetrachloroethene (PCE)	500 U	500	110	500	02/04/20 13:27	
Toluene	**15000 D**	500	100	500	02/04/20 13:27	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 11:35
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW3	**Units:**	ug/L
Lab Code:	R2000775-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	500	U	500	100	500	02/04/20 13:27	
Trichlorofluoromethane (CFC 11)	500	U	500	120	500	02/04/20 13:27	
Vinyl Chloride	500	U	500	100	500	02/04/20 13:27	
cis-1,2-Dichloroethene	500	U	500	120	500	02/04/20 13:27	
cis-1,3-Dichloropropene	500	U	500	100	500	02/04/20 13:27	
m,p-Xylenes	**3500**	**D**	1000	100	500	02/04/20 13:27	
o-Xylene	**1000**	**D**	500	100	500	02/04/20 13:27	
trans-1,2-Dichloroethene	500	U	500	100	500	02/04/20 13:27	
trans-1,3-Dichloropropene	500	U	500	120	500	02/04/20 13:27	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	02/04/20 13:27	
Dibromofluoromethane	97	89 - 119	02/04/20 13:27	
Toluene-d8	101	87 - 121	02/04/20 13:27	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 09:00
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW4	**Units:**	ug/L
Lab Code:	R2000775-001	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	93	U	93	10	10	02/03/20 22:05	1/31/20	
2,3,4,6-Tetrachlorophenol	93	U	93	10	10	02/03/20 22:05	1/31/20	
2,4,5-Trichlorophenol	93	U	93	11	10	02/03/20 22:05	1/31/20	
2,4,6-Trichlorophenol	93	U	93	10	10	02/03/20 22:05	1/31/20	
2,4-Dichlorophenol	93	U	93	10	10	02/03/20 22:05	1/31/20	
2,4-Dimethylphenol	93	U	93	10	10	02/03/20 22:05	1/31/20	
2,4-Dinitrophenol	470	U	470	70	10	02/03/20 22:05	1/31/20	
2,4-Dinitrotoluene	93	U	93	27	10	02/03/20 22:05	1/31/20	
2,6-Dinitrotoluene	93	U	93	15	10	02/03/20 22:05	1/31/20	
2-Chloronaphthalene	93	U	93	11	10	02/03/20 22:05	1/31/20	
2-Chlorophenol	93	U	93	10	10	02/03/20 22:05	1/31/20	
2-Methylnaphthalene	93	U	93	10	10	02/03/20 22:05	1/31/20	
2-Methylphenol	**43**	**J**	93	10	10	02/03/20 22:05	1/31/20	
2-Nitroaniline	470	U	470	24	10	02/03/20 22:05	1/31/20	
2-Nitrophenol	93	U	93	15	10	02/03/20 22:05	1/31/20	
3,3'-Dichlorobenzidine	93	U	93	10	10	02/03/20 22:05	1/31/20	
3- and 4-Methylphenol Coelution	**240**		93	10	10	02/03/20 22:05	1/31/20	
3-Nitroaniline	470	U	470	18	10	02/03/20 22:05	1/31/20	
4,6-Dinitro-2-methylphenol	470	U	470	37	10	02/03/20 22:05	1/31/20	
4-Bromophenyl Phenyl Ether	93	U	93	14	10	02/03/20 22:05	1/31/20	
4-Chloro-3-methylphenol	93	U	93	11	10	02/03/20 22:05	1/31/20	
4-Chloroaniline	93	U	93	10	10	02/03/20 22:05	1/31/20	
4-Chlorophenyl Phenyl Ether	93	U	93	12	10	02/03/20 22:05	1/31/20	
4-Nitroaniline	470	U	470	19	10	02/03/20 22:05	1/31/20	
4-Nitrophenol	470	U	470	30	10	02/03/20 22:05	1/31/20	
Acenaphthene	93	U	93	16	10	02/03/20 22:05	1/31/20	
Acenaphthylene	93	U	93	13	10	02/03/20 22:05	1/31/20	
Acetophenone	**360**		93	13	10	02/03/20 22:05	1/31/20	
Anthracene	93	U	93	14	10	02/03/20 22:05	1/31/20	
Atrazine	93	U	93	13	10	02/03/20 22:05	1/31/20	
Benz(a)anthracene	93	U	93	10	10	02/03/20 22:05	1/31/20	
Benzaldehyde	470	U	470	11	10	02/03/20 22:05	1/31/20	
Benzo(a)pyrene	93	U	93	13	10	02/03/20 22:05	1/31/20	
Benzo(b)fluoranthene	93	U	93	13	10	02/03/20 22:05	1/31/20	
Benzo(g,h,i)perylene	93	U	93	15	10	02/03/20 22:05	1/31/20	
Benzo(k)fluoranthene	93	U	93	15	10	02/03/20 22:05	1/31/20	
Biphenyl	93	U	93	19	10	02/03/20 22:05	1/31/20	
2,2'-Oxybis(1-chloropropane)	93	U	93	14	10	02/03/20 22:05	1/31/20	
Bis(2-chloroethoxy)methane	93	U	93	10	10	02/03/20 22:05	1/31/20	
Bis(2-chloroethyl) Ether	93	U	93	10	10	02/03/20 22:05	1/31/20	
Bis(2-ethylhexyl) Phthalate	97	U	97	97	10	02/03/20 22:05	1/31/20	
Butyl Benzyl Phthalate	93	U	93	10	10	02/03/20 22:05	1/31/20	
Caprolactam	93	U	93	10	10	02/03/20 22:05	1/31/20	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 09:00
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW4	**Units:**	ug/L
Lab Code:	R2000775-001	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	93	U	93	13	10	02/03/20 22:05	1/31/20	
Chrysene	93	U	93	15	10	02/03/20 22:05	1/31/20	
Di-n-butyl Phthalate	93	U	93	11	10	02/03/20 22:05	1/31/20	
Di-n-octyl Phthalate	93	U	93	18	10	02/03/20 22:05	1/31/20	
Dibenz(a,h)anthracene	93	U	93	14	10	02/03/20 22:05	1/31/20	
Dibenzofuran	93	U	93	13	10	02/03/20 22:05	1/31/20	
Diethyl Phthalate	93	U	93	12	10	02/03/20 22:05	1/31/20	
Dimethyl Phthalate	93	U	93	15	10	02/03/20 22:05	1/31/20	
Fluoranthene	93	U	93	14	10	02/03/20 22:05	1/31/20	
Fluorene	93	U	93	16	10	02/03/20 22:05	1/31/20	
Hexachlorobenzene	93	U	93	14	10	02/03/20 22:05	1/31/20	
Hexachlorobutadiene	93	U	93	11	10	02/03/20 22:05	1/31/20	
Hexachlorocyclopentadiene	93	U	93	15	10	02/03/20 22:05	1/31/20	
Hexachloroethane	93	U	93	12	10	02/03/20 22:05	1/31/20	
Indeno(1,2,3-cd)pyrene	93	U	93	14	10	02/03/20 22:05	1/31/20	
Isophorone	93	U	93	12	10	02/03/20 22:05	1/31/20	
N-Nitrosodi-n-propylamine	93	U	93	20	10	02/03/20 22:05	1/31/20	
N-Nitrosodiphenylamine	93	U	93	47	10	02/03/20 22:05	1/31/20	
Naphthalene	**11**	**J**	93	11	10	02/03/20 22:05	1/31/20	
Nitrobenzene	93	U	93	10	10	02/03/20 22:05	1/31/20	
Pentachlorophenol (PCP)	470	U	470	60	10	02/03/20 22:05	1/31/20	
Phenanthrene	93	U	93	16	10	02/03/20 22:05	1/31/20	
Phenol	**350**		93	30	10	02/03/20 22:05	1/31/20	
Pyrene	93	U	93	18	10	02/03/20 22:05	1/31/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	55	35 - 141	02/03/20 22:05	
2-Fluorobiphenyl	38	31 - 118	02/03/20 22:05	
2-Fluorophenol	36	10 - 105	02/03/20 22:05	
Nitrobenzene-d5	102	31 - 110	02/03/20 22:05	
Phenol-d6	30	10 - 107	02/03/20 22:05	
Terphenyl-d14	15	10 - 165	02/03/20 22:05	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	10.10	300	J
	unknown	10.37	280	J
000080-05-7	Phenol, 4,4'-(1-methylethylidene)b	10.63	340	JN
	unknown	18.31	240	J
000071-36-3	1-Butanol	2.19	260	JN
000121-44-8	Triethylamine	2.35	810	JN

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 09:00
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW4	**Units:**	ug/L
Lab Code:	R2000775-001	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	2.87	340	J
	unknown	3.45	250	J
003302-10-1	Hexanoic acid, 3,5,5-trimethyl-	5.70	240	JN
000124-07-2	Octanoic Acid	5.84	320	JN
000142-62-1	Hexanoic acid	6.36	470	JN
000099-04-7	Benzoic acid, 3-methyl-	6.39	210	JN
000501-52-0	Benzenepropanoic acid	6.75	360	JN
	unknown	8.66	240	J
	unknown	8.75	240	J
	unknown	9.80	540	J

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 09:00
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW4 FP	**Units:**	ug/L
Lab Code:	R2000775-002	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	98	U	98	10	10	02/03/20 22:33	1/31/20	
2,3,4,6-Tetrachlorophenol	98	U	98	10	10	02/03/20 22:33	1/31/20	
2,4,5-Trichlorophenol	98	U	98	11	10	02/03/20 22:33	1/31/20	
2,4,6-Trichlorophenol	98	U	98	10	10	02/03/20 22:33	1/31/20	
2,4-Dichlorophenol	98	U	98	10	10	02/03/20 22:33	1/31/20	
2,4-Dimethylphenol	98	U	98	10	10	02/03/20 22:33	1/31/20	
2,4-Dinitrophenol	490	U	490	70	10	02/03/20 22:33	1/31/20	
2,4-Dinitrotoluene	98	U	98	27	10	02/03/20 22:33	1/31/20	
2,6-Dinitrotoluene	98	U	98	15	10	02/03/20 22:33	1/31/20	
2-Chloronaphthalene	98	U	98	11	10	02/03/20 22:33	1/31/20	
2-Chlorophenol	98	U	98	10	10	02/03/20 22:33	1/31/20	
2-Methylnaphthalene	**25**	**J**	98	10	10	02/03/20 22:33	1/31/20	
2-Methylphenol	**39**	**J**	98	10	10	02/03/20 22:33	1/31/20	
2-Nitroaniline	490	U	490	24	10	02/03/20 22:33	1/31/20	
2-Nitrophenol	98	U	98	15	10	02/03/20 22:33	1/31/20	
3,3'-Dichlorobenzidine	98	U	98	10	10	02/03/20 22:33	1/31/20	
3- and 4-Methylphenol Coelution	**200**		98	10	10	02/03/20 22:33	1/31/20	
3-Nitroaniline	490	U	490	18	10	02/03/20 22:33	1/31/20	
4,6-Dinitro-2-methylphenol	490	U	490	37	10	02/03/20 22:33	1/31/20	
4-Bromophenyl Phenyl Ether	98	U	98	14	10	02/03/20 22:33	1/31/20	
4-Chloro-3-methylphenol	98	U	98	11	10	02/03/20 22:33	1/31/20	
4-Chloroaniline	98	U	98	10	10	02/03/20 22:33	1/31/20	
4-Chlorophenyl Phenyl Ether	98	U	98	12	10	02/03/20 22:33	1/31/20	
4-Nitroaniline	490	U	490	19	10	02/03/20 22:33	1/31/20	
4-Nitrophenol	490	U	490	30	10	02/03/20 22:33	1/31/20	
Acenaphthene	98	U	98	16	10	02/03/20 22:33	1/31/20	
Acenaphthylene	98	U	98	13	10	02/03/20 22:33	1/31/20	
Acetophenone	98	U	98	13	10	02/03/20 22:33	1/31/20	
Anthracene	98	U	98	14	10	02/03/20 22:33	1/31/20	
Atrazine	98	U	98	13	10	02/03/20 22:33	1/31/20	
Benz(a)anthracene	98	U	98	10	10	02/03/20 22:33	1/31/20	
Benzaldehyde	490	U	490	11	10	02/03/20 22:33	1/31/20	
Benzo(a)pyrene	98	U	98	13	10	02/03/20 22:33	1/31/20	
Benzo(b)fluoranthene	98	U	98	13	10	02/03/20 22:33	1/31/20	
Benzo(g,h,i)perylene	98	U	98	15	10	02/03/20 22:33	1/31/20	
Benzo(k)fluoranthene	98	U	98	15	10	02/03/20 22:33	1/31/20	
Biphenyl	98	U	98	19	10	02/03/20 22:33	1/31/20	
2,2'-Oxybis(1-chloropropane)	98	U	98	14	10	02/03/20 22:33	1/31/20	
Bis(2-chloroethoxy)methane	98	U	98	10	10	02/03/20 22:33	1/31/20	
Bis(2-chloroethyl) Ether	98	U	98	10	10	02/03/20 22:33	1/31/20	
Bis(2-ethylhexyl) Phthalate	**830**		98	97	10	02/03/20 22:33	1/31/20	
Butyl Benzyl Phthalate	98	U	98	10	10	02/03/20 22:33	1/31/20	
Caprolactam	98	U	98	10	10	02/03/20 22:33	1/31/20	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 09:00
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW4 FP	**Units:**	ug/L
Lab Code:	R2000775-002	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	98	U	98	13	10	02/03/20 22:33	1/31/20	
Chrysene	98	U	98	15	10	02/03/20 22:33	1/31/20	
Di-n-butyl Phthalate	98	U	98	11	10	02/03/20 22:33	1/31/20	
Di-n-octyl Phthalate	98	U	98	18	10	02/03/20 22:33	1/31/20	
Dibenz(a,h)anthracene	98	U	98	14	10	02/03/20 22:33	1/31/20	
Dibenzofuran	98	U	98	13	10	02/03/20 22:33	1/31/20	
Diethyl Phthalate	98	U	98	12	10	02/03/20 22:33	1/31/20	
Dimethyl Phthalate	98	U	98	15	10	02/03/20 22:33	1/31/20	
Fluoranthene	**16**	**J**	98	14	10	02/03/20 22:33	1/31/20	
Fluorene	98	U	98	16	10	02/03/20 22:33	1/31/20	
Hexachlorobenzene	98	U	98	14	10	02/03/20 22:33	1/31/20	
Hexachlorobutadiene	98	U	98	11	10	02/03/20 22:33	1/31/20	
Hexachlorocyclopentadiene	98	U	98	15	10	02/03/20 22:33	1/31/20	
Hexachloroethane	98	U	98	12	10	02/03/20 22:33	1/31/20	
Indeno(1,2,3-cd)pyrene	98	U	98	14	10	02/03/20 22:33	1/31/20	
Isophorone	98	U	98	12	10	02/03/20 22:33	1/31/20	
N-Nitrosodi-n-propylamine	98	U	98	20	10	02/03/20 22:33	1/31/20	
N-Nitrosodiphenylamine	98	U	98	47	10	02/03/20 22:33	1/31/20	
Naphthalene	98	U	98	11	10	02/03/20 22:33	1/31/20	
Nitrobenzene	98	U	98	10	10	02/03/20 22:33	1/31/20	
Pentachlorophenol (PCP)	490	U	490	60	10	02/03/20 22:33	1/31/20	
Phenanthrene	**26**	**J**	98	16	10	02/03/20 22:33	1/31/20	
Phenol	**250**		98	30	10	02/03/20 22:33	1/31/20	
Pyrene	98	U	98	18	10	02/03/20 22:33	1/31/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	55	35 - 141	02/03/20 22:33	
2-Fluorobiphenyl	32	31 - 118	02/03/20 22:33	
2-Fluorophenol	25	10 - 105	02/03/20 22:33	
Nitrobenzene-d5	1070 *	31 - 110	02/03/20 22:33	*
Phenol-d6	26	10 - 107	02/03/20 22:33	
Terphenyl-d14	16	10 - 165	02/03/20 22:33	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	10.10	210	J
1000190-13-7	Octadec-9-enoic acid	10.40	2200	JN
000057-11-4	Octadecanoic acid	10.48	240	JN
000080-05-7	Phenol, 4,4'-(1-methylethylidene)b	10.63	260	JN
	unknown	4.90	210	J
	unknown	5.01	230	J

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 09:00
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW4 FP	**Units:**	ug/L
Lab Code:	R2000775-002	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown hydrocarbon	5.31	320	J
	unknown	5.35	1000	J
	unknown	5.41	710	J
	unknown	5.47	800	J
	unknown	5.56	250	J
	unknown	5.58	360	J
	unknown	5.63	460	J
	unknown	5.67	330	J
	unknown hydrocarbon	5.74	230	J
	unknown	5.82	290	J
	unknown	8.66	350	J
000057-10-3	n-Hexadecanoic acid	9.64	850	JN
	unknown	9.80	330	J

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 09:35
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW2	**Units:**	ug/L
Lab Code:	R2000775-004	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	9.3 U	9.3	1.0	1	02/05/20 12:40	2/3/20	
2,3,4,6-Tetrachlorophenol	9.3 U	9.3	1.0	1	02/05/20 12:40	2/3/20	
2,4,5-Trichlorophenol	9.3 U	9.3	1.1	1	02/05/20 12:40	2/3/20	
2,4,6-Trichlorophenol	9.3 U	9.3	1.0	1	02/05/20 12:40	2/3/20	
2,4-Dichlorophenol	9.3 U	9.3	1.0	1	02/05/20 12:40	2/3/20	
2,4-Dimethylphenol	9.3 U	9.3	1.0	1	02/05/20 12:40	2/3/20	
2,4-Dinitrophenol	47 U	47	7.0	1	02/05/20 12:40	2/3/20	
2,4-Dinitrotoluene	9.3 U	9.3	2.7	1	02/05/20 12:40	2/3/20	
2,6-Dinitrotoluene	9.3 U	9.3	1.5	1	02/05/20 12:40	2/3/20	
2-Chloronaphthalene	9.3 U	9.3	1.1	1	02/05/20 12:40	2/3/20	
2-Chlorophenol	9.3 U	9.3	1.0	1	02/05/20 12:40	2/3/20	
2-Methylnaphthalene	9.3 U	9.3	1.0	1	02/05/20 12:40	2/3/20	
2-Methylphenol	9.3 U	9.3	1.0	1	02/05/20 12:40	2/3/20	
2-Nitroaniline	47 U	47	2.4	1	02/05/20 12:40	2/3/20	
2-Nitrophenol	9.3 U	9.3	1.5	1	02/05/20 12:40	2/3/20	
3,3'-Dichlorobenzidine	9.3 U	9.3	1.0	1	02/05/20 12:40	2/3/20	
3- and 4-Methylphenol Coelution	9.3 U	9.3	1.0	1	02/05/20 12:40	2/3/20	
3-Nitroaniline	47 U	47	1.8	1	02/05/20 12:40	2/3/20	
4,6-Dinitro-2-methylphenol	47 U	47	3.7	1	02/05/20 12:40	2/3/20	
4-Bromophenyl Phenyl Ether	9.3 U	9.3	1.4	1	02/05/20 12:40	2/3/20	
4-Chloro-3-methylphenol	9.3 U	9.3	1.1	1	02/05/20 12:40	2/3/20	
4-Chloroaniline	9.3 U	9.3	1.0	1	02/05/20 12:40	2/3/20	
4-Chlorophenyl Phenyl Ether	9.3 U	9.3	1.2	1	02/05/20 12:40	2/3/20	
4-Nitroaniline	47 U	47	1.9	1	02/05/20 12:40	2/3/20	
4-Nitrophenol	47 U	47	3.0	1	02/05/20 12:40	2/3/20	
Acenaphthene	9.3 U	9.3	1.6	1	02/05/20 12:40	2/3/20	
Acenaphthylene	9.3 U	9.3	1.3	1	02/05/20 12:40	2/3/20	
Acetophenone	9.3 U	9.3	1.3	1	02/05/20 12:40	2/3/20	
Anthracene	9.3 U	9.3	1.4	1	02/05/20 12:40	2/3/20	
Atrazine	9.3 U	9.3	1.3	1	02/05/20 12:40	2/3/20	
Benz(a)anthracene	9.3 U	9.3	1.0	1	02/05/20 12:40	2/3/20	
Benzaldehyde	47 U	47	1.1	1	02/05/20 12:40	2/3/20	
Benzo(a)pyrene	9.3 U	9.3	1.3	1	02/05/20 12:40	2/3/20	
Benzo(b)fluoranthene	9.3 U	9.3	1.3	1	02/05/20 12:40	2/3/20	
Benzo(g,h,i)perylene	9.3 U	9.3	1.5	1	02/05/20 12:40	2/3/20	
Benzo(k)fluoranthene	9.3 U	9.3	1.5	1	02/05/20 12:40	2/3/20	
Biphenyl	9.3 U	9.3	1.9	1	02/05/20 12:40	2/3/20	
2,2'-Oxybis(1-chloropropane)	9.3 U	9.3	1.4	1	02/05/20 12:40	2/3/20	
Bis(2-chloroethoxy)methane	9.3 U	9.3	1.0	1	02/05/20 12:40	2/3/20	
Bis(2-chloroethyl) Ether	9.3 U	9.3	1.0	1	02/05/20 12:40	2/3/20	
Bis(2-ethylhexyl) Phthalate	9.7 U	9.7	9.7	1	02/05/20 12:40	2/3/20	
Butyl Benzyl Phthalate	9.3 U	9.3	1.0	1	02/05/20 12:40	2/3/20	
Caprolactam	9.3 U	9.3	1.0	1	02/05/20 12:40	2/3/20	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 09:35
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW2	**Units:**	ug/L
Lab Code:	R2000775-004	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	9.3 U	9.3	1.3	1	02/05/20 12:40	2/3/20	
Chrysene	9.3 U	9.3	1.5	1	02/05/20 12:40	2/3/20	
Di-n-butyl Phthalate	9.3 U	9.3	1.1	1	02/05/20 12:40	2/3/20	
Di-n-octyl Phthalate	9.3 U	9.3	1.8	1	02/05/20 12:40	2/3/20	
Dibenz(a,h)anthracene	9.3 U	9.3	1.4	1	02/05/20 12:40	2/3/20	
Dibenzofuran	9.3 U	9.3	1.3	1	02/05/20 12:40	2/3/20	
Diethyl Phthalate	9.3 U	9.3	1.2	1	02/05/20 12:40	2/3/20	
Dimethyl Phthalate	9.3 U	9.3	1.5	1	02/05/20 12:40	2/3/20	
Fluoranthene	9.3 U	9.3	1.4	1	02/05/20 12:40	2/3/20	
Fluorene	9.3 U	9.3	1.6	1	02/05/20 12:40	2/3/20	
Hexachlorobenzene	9.3 U	9.3	1.4	1	02/05/20 12:40	2/3/20	
Hexachlorobutadiene	9.3 U	9.3	1.1	1	02/05/20 12:40	2/3/20	
Hexachlorocyclopentadiene	9.3 U	9.3	1.5	1	02/05/20 12:40	2/3/20	
Hexachloroethane	9.3 U	9.3	1.2	1	02/05/20 12:40	2/3/20	
Indeno(1,2,3-cd)pyrene	9.3 U	9.3	1.4	1	02/05/20 12:40	2/3/20	
Isophorone	9.3 U	9.3	1.2	1	02/05/20 12:40	2/3/20	
N-Nitrosodi-n-propylamine	9.3 U	9.3	2.0	1	02/05/20 12:40	2/3/20	
N-Nitrosodiphenylamine	9.3 U	9.3	4.7	1	02/05/20 12:40	2/3/20	
Naphthalene	9.3 U	9.3	1.1	1	02/05/20 12:40	2/3/20	
Nitrobenzene	9.3 U	9.3	1.0	1	02/05/20 12:40	2/3/20	
Pentachlorophenol (PCP)	47 U	47	6.0	1	02/05/20 12:40	2/3/20	
Phenanthrene	9.3 U	9.3	1.6	1	02/05/20 12:40	2/3/20	
Phenol	9.3 U	9.3	3.0	1	02/05/20 12:40	2/3/20	
Pyrene	9.3 U	9.3	1.8	1	02/05/20 12:40	2/3/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	82	35 - 141	02/05/20 12:40	
2-Fluorobiphenyl	75	31 - 118	02/05/20 12:40	
2-Fluorophenol	31	10 - 105	02/05/20 12:40	
Nitrobenzene-d5	72	31 - 110	02/05/20 12:40	
Phenol-d6	22	10 - 107	02/05/20 12:40	
Terphenyl-d14	52	10 - 165	02/05/20 12:40	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 12:45
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW5	**Units:**	ug/L
Lab Code:	R2000775-005	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	10	U	10	1.1	1	02/05/20 14:05	2/3/20	
2,3,4,6-Tetrachlorophenol	10	U	10	1.1	1	02/05/20 14:05	2/3/20	
2,4,5-Trichlorophenol	10	U	10	1.2	1	02/05/20 14:05	2/3/20	
2,4,6-Trichlorophenol	10	U	10	1.1	1	02/05/20 14:05	2/3/20	
2,4-Dichlorophenol	10	U	10	1.1	1	02/05/20 14:05	2/3/20	
2,4-Dimethylphenol	10	U	10	1.1	1	02/05/20 14:05	2/3/20	
2,4-Dinitrophenol	51	U	51	7.2	1	02/05/20 14:05	2/3/20	
2,4-Dinitrotoluene	10	U	10	2.8	1	02/05/20 14:05	2/3/20	
2,6-Dinitrotoluene	10	U	10	1.6	1	02/05/20 14:05	2/3/20	
2-Chloronaphthalene	10	U	10	1.2	1	02/05/20 14:05	2/3/20	
2-Chlorophenol	10	U	10	1.1	1	02/05/20 14:05	2/3/20	
2-Methylnaphthalene	10	U	10	1.1	1	02/05/20 14:05	2/3/20	
2-Methylphenol	10	U	10	1.1	1	02/05/20 14:05	2/3/20	
2-Nitroaniline	51	U	51	2.5	1	02/05/20 14:05	2/3/20	
2-Nitrophenol	10	U	10	1.6	1	02/05/20 14:05	2/3/20	
3,3'-Dichlorobenzidine	10	U	10	1.1	1	02/05/20 14:05	2/3/20	
3- and 4-Methylphenol Coelution	10	U	10	1.1	1	02/05/20 14:05	2/3/20	
3-Nitroaniline	51	U	51	1.9	1	02/05/20 14:05	2/3/20	
4,6-Dinitro-2-methylphenol	51	U	51	3.8	1	02/05/20 14:05	2/3/20	
4-Bromophenyl Phenyl Ether	10	U	10	1.5	1	02/05/20 14:05	2/3/20	
4-Chloro-3-methylphenol	10	U	10	1.2	1	02/05/20 14:05	2/3/20	
4-Chloroaniline	10	U	10	1.1	1	02/05/20 14:05	2/3/20	
4-Chlorophenyl Phenyl Ether	10	U	10	1.3	1	02/05/20 14:05	2/3/20	
4-Nitroaniline	51	U	51	2.0	1	02/05/20 14:05	2/3/20	
4-Nitrophenol	51	U	51	3.1	1	02/05/20 14:05	2/3/20	
Acenaphthene	10	U	10	1.7	1	02/05/20 14:05	2/3/20	
Acenaphthylene	10	U	10	1.4	1	02/05/20 14:05	2/3/20	
Acetophenone	**8.6**	**J**	10	1.4	1	02/05/20 14:05	2/3/20	
Anthracene	10	U	10	1.5	1	02/05/20 14:05	2/3/20	
Atrazine	10	U	10	1.4	1	02/05/20 14:05	2/3/20	
Benz(a)anthracene	10	U	10	1.1	1	02/05/20 14:05	2/3/20	
Benzaldehyde	51	U	51	1.2	1	02/05/20 14:05	2/3/20	
Benzo(a)pyrene	10	U	10	1.4	1	02/05/20 14:05	2/3/20	
Benzo(b)fluoranthene	10	U	10	1.4	1	02/05/20 14:05	2/3/20	
Benzo(g,h,i)perylene	10	U	10	1.6	1	02/05/20 14:05	2/3/20	
Benzo(k)fluoranthene	10	U	10	1.6	1	02/05/20 14:05	2/3/20	
Biphenyl	10	U	10	2.0	1	02/05/20 14:05	2/3/20	
2,2'-Oxybis(1-chloropropane)	10	U	10	1.5	1	02/05/20 14:05	2/3/20	
Bis(2-chloroethoxy)methane	10	U	10	1.1	1	02/05/20 14:05	2/3/20	
Bis(2-chloroethyl) Ether	10	U	10	1.1	1	02/05/20 14:05	2/3/20	
Bis(2-ethylhexyl) Phthalate	10	U	10	9.9	1	02/05/20 14:05	2/3/20	
Butyl Benzyl Phthalate	10	U	10	1.1	1	02/05/20 14:05	2/3/20	
Caprolactam	10	U	10	1.1	1	02/05/20 14:05	2/3/20	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 12:45
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW5	**Units:**	ug/L
Lab Code:	R2000775-005	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	10 U	10	1.4	1	02/05/20 14:05	2/3/20	
Chrysene	10 U	10	1.6	1	02/05/20 14:05	2/3/20	
Di-n-butyl Phthalate	10 U	10	1.2	1	02/05/20 14:05	2/3/20	
Di-n-octyl Phthalate	10 U	10	1.9	1	02/05/20 14:05	2/3/20	
Dibenz(a,h)anthracene	10 U	10	1.5	1	02/05/20 14:05	2/3/20	
Dibenzofuran	10 U	10	1.4	1	02/05/20 14:05	2/3/20	
Diethyl Phthalate	10 U	10	1.3	1	02/05/20 14:05	2/3/20	
Dimethyl Phthalate	10 U	10	1.6	1	02/05/20 14:05	2/3/20	
Fluoranthene	10 U	10	1.5	1	02/05/20 14:05	2/3/20	
Fluorene	10 U	10	1.7	1	02/05/20 14:05	2/3/20	
Hexachlorobenzene	10 U	10	1.5	1	02/05/20 14:05	2/3/20	
Hexachlorobutadiene	10 U	10	1.2	1	02/05/20 14:05	2/3/20	
Hexachlorocyclopentadiene	10 U	10	1.6	1	02/05/20 14:05	2/3/20	
Hexachloroethane	10 U	10	1.3	1	02/05/20 14:05	2/3/20	
Indeno(1,2,3-cd)pyrene	10 U	10	1.5	1	02/05/20 14:05	2/3/20	
Isophorone	10 U	10	1.3	1	02/05/20 14:05	2/3/20	
N-Nitrosodi-n-propylamine	10 U	10	2.1	1	02/05/20 14:05	2/3/20	
N-Nitrosodiphenylamine	10 U	10	4.8	1	02/05/20 14:05	2/3/20	
Naphthalene	10 U	10	1.2	1	02/05/20 14:05	2/3/20	
Nitrobenzene	10 U	10	1.1	1	02/05/20 14:05	2/3/20	
Pentachlorophenol (PCP)	51 U	51	6.1	1	02/05/20 14:05	2/3/20	
Phenanthrene	10 U	10	1.7	1	02/05/20 14:05	2/3/20	
Phenol	**65**	10	3.1	1	02/05/20 14:05	2/3/20	
Pyrene	10 U	10	1.9	1	02/05/20 14:05	2/3/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	86	35 - 141	02/05/20 14:05	
2-Fluorobiphenyl	75	31 - 118	02/05/20 14:05	
2-Fluorophenol	40	10 - 105	02/05/20 14:05	
Nitrobenzene-d5	70	31 - 110	02/05/20 14:05	
Phenol-d6	27	10 - 107	02/05/20 14:05	
Terphenyl-d14	53	10 - 165	02/05/20 14:05	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown hydrocarbon	12.01	5.5	J
	unknown hydrocarbon	12.62	7.4	J
	unknown hydrocarbon	13.28	7.4	J
	unknown	13.60	15	J
	unknown hydrocarbon	13.99	6.1	J
	unknown hydrocarbon	14.75	5.9	J

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 12:45
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW5	**Units:**	ug/L
Lab Code:	R2000775-005	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown hydrocarbon	15.54	5.1	J

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 13:44
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	Equipment Blank	**Units:**	ug/L
Lab Code:	R2000775-006	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	9.3 U	9.3	1.0	1	02/05/20 14:34	2/3/20	
2,3,4,6-Tetrachlorophenol	9.3 U	9.3	1.0	1	02/05/20 14:34	2/3/20	
2,4,5-Trichlorophenol	9.3 U	9.3	1.1	1	02/05/20 14:34	2/3/20	
2,4,6-Trichlorophenol	9.3 U	9.3	1.0	1	02/05/20 14:34	2/3/20	
2,4-Dichlorophenol	9.3 U	9.3	1.0	1	02/05/20 14:34	2/3/20	
2,4-Dimethylphenol	9.3 U	9.3	1.0	1	02/05/20 14:34	2/3/20	
2,4-Dinitrophenol	46 U	46	7.0	1	02/05/20 14:34	2/3/20	
2,4-Dinitrotoluene	9.3 U	9.3	2.7	1	02/05/20 14:34	2/3/20	
2,6-Dinitrotoluene	9.3 U	9.3	1.5	1	02/05/20 14:34	2/3/20	
2-Chloronaphthalene	9.3 U	9.3	1.1	1	02/05/20 14:34	2/3/20	
2-Chlorophenol	9.3 U	9.3	1.0	1	02/05/20 14:34	2/3/20	
2-Methylnaphthalene	9.3 U	9.3	1.0	1	02/05/20 14:34	2/3/20	
2-Methylphenol	9.3 U	9.3	1.0	1	02/05/20 14:34	2/3/20	
2-Nitroaniline	46 U	46	2.4	1	02/05/20 14:34	2/3/20	
2-Nitrophenol	9.3 U	9.3	1.5	1	02/05/20 14:34	2/3/20	
3,3'-Dichlorobenzidine	9.3 U	9.3	1.0	1	02/05/20 14:34	2/3/20	
3- and 4-Methylphenol Coelution	9.3 U	9.3	1.0	1	02/05/20 14:34	2/3/20	
3-Nitroaniline	46 U	46	1.8	1	02/05/20 14:34	2/3/20	
4,6-Dinitro-2-methylphenol	46 U	46	3.7	1	02/05/20 14:34	2/3/20	
4-Bromophenyl Phenyl Ether	9.3 U	9.3	1.4	1	02/05/20 14:34	2/3/20	
4-Chloro-3-methylphenol	9.3 U	9.3	1.1	1	02/05/20 14:34	2/3/20	
4-Chloroaniline	9.3 U	9.3	1.0	1	02/05/20 14:34	2/3/20	
4-Chlorophenyl Phenyl Ether	9.3 U	9.3	1.2	1	02/05/20 14:34	2/3/20	
4-Nitroaniline	46 U	46	1.9	1	02/05/20 14:34	2/3/20	
4-Nitrophenol	46 U	46	3.0	1	02/05/20 14:34	2/3/20	
Acenaphthene	9.3 U	9.3	1.6	1	02/05/20 14:34	2/3/20	
Acenaphthylene	9.3 U	9.3	1.3	1	02/05/20 14:34	2/3/20	
Acetophenone	9.3 U	9.3	1.3	1	02/05/20 14:34	2/3/20	
Anthracene	9.3 U	9.3	1.4	1	02/05/20 14:34	2/3/20	
Atrazine	9.3 U	9.3	1.3	1	02/05/20 14:34	2/3/20	
Benz(a)anthracene	9.3 U	9.3	1.0	1	02/05/20 14:34	2/3/20	
Benzaldehyde	46 U	46	1.1	1	02/05/20 14:34	2/3/20	
Benzo(a)pyrene	9.3 U	9.3	1.3	1	02/05/20 14:34	2/3/20	
Benzo(b)fluoranthene	9.3 U	9.3	1.3	1	02/05/20 14:34	2/3/20	
Benzo(g,h,i)perylene	9.3 U	9.3	1.5	1	02/05/20 14:34	2/3/20	
Benzo(k)fluoranthene	9.3 U	9.3	1.5	1	02/05/20 14:34	2/3/20	
Biphenyl	9.3 U	9.3	1.9	1	02/05/20 14:34	2/3/20	
2,2'-Oxybis(1-chloropropane)	9.3 U	9.3	1.4	1	02/05/20 14:34	2/3/20	
Bis(2-chloroethoxy)methane	9.3 U	9.3	1.0	1	02/05/20 14:34	2/3/20	
Bis(2-chloroethyl) Ether	9.3 U	9.3	1.0	1	02/05/20 14:34	2/3/20	
Bis(2-ethylhexyl) Phthalate	9.7 U	9.7	9.7	1	02/05/20 14:34	2/3/20	
Butyl Benzyl Phthalate	9.3 U	9.3	1.0	1	02/05/20 14:34	2/3/20	
Caprolactam	9.3 U	9.3	1.0	1	02/05/20 14:34	2/3/20	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 13:44
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	Equipment Blank	**Units:**	ug/L
Lab Code:	R2000775-006	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	9.3 U	9.3	1.3	1	02/05/20 14:34	2/3/20	
Chrysene	9.3 U	9.3	1.5	1	02/05/20 14:34	2/3/20	
Di-n-butyl Phthalate	9.3 U	9.3	1.1	1	02/05/20 14:34	2/3/20	
Di-n-octyl Phthalate	9.3 U	9.3	1.8	1	02/05/20 14:34	2/3/20	
Dibenz(a,h)anthracene	9.3 U	9.3	1.4	1	02/05/20 14:34	2/3/20	
Dibenzofuran	9.3 U	9.3	1.3	1	02/05/20 14:34	2/3/20	
Diethyl Phthalate	9.3 U	9.3	1.2	1	02/05/20 14:34	2/3/20	
Dimethyl Phthalate	9.3 U	9.3	1.5	1	02/05/20 14:34	2/3/20	
Fluoranthene	9.3 U	9.3	1.4	1	02/05/20 14:34	2/3/20	
Fluorene	9.3 U	9.3	1.6	1	02/05/20 14:34	2/3/20	
Hexachlorobenzene	9.3 U	9.3	1.4	1	02/05/20 14:34	2/3/20	
Hexachlorobutadiene	9.3 U	9.3	1.1	1	02/05/20 14:34	2/3/20	
Hexachlorocyclopentadiene	9.3 U	9.3	1.5	1	02/05/20 14:34	2/3/20	
Hexachloroethane	9.3 U	9.3	1.2	1	02/05/20 14:34	2/3/20	
Indeno(1,2,3-cd)pyrene	9.3 U	9.3	1.4	1	02/05/20 14:34	2/3/20	
Isophorone	9.3 U	9.3	1.2	1	02/05/20 14:34	2/3/20	
N-Nitrosodi-n-propylamine	9.3 U	9.3	2.0	1	02/05/20 14:34	2/3/20	
N-Nitrosodiphenylamine	9.3 U	9.3	4.7	1	02/05/20 14:34	2/3/20	
Naphthalene	9.3 U	9.3	1.1	1	02/05/20 14:34	2/3/20	
Nitrobenzene	9.3 U	9.3	1.0	1	02/05/20 14:34	2/3/20	
Pentachlorophenol (PCP)	46 U	46	6.0	1	02/05/20 14:34	2/3/20	
Phenanthrene	9.3 U	9.3	1.6	1	02/05/20 14:34	2/3/20	
Phenol	9.3 U	9.3	3.0	1	02/05/20 14:34	2/3/20	
Pyrene	9.3 U	9.3	1.8	1	02/05/20 14:34	2/3/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	86	35 - 141	02/05/20 14:34	
2-Fluorobiphenyl	72	31 - 118	02/05/20 14:34	
2-Fluorophenol	39	10 - 105	02/05/20 14:34	
Nitrobenzene-d5	72	31 - 110	02/05/20 14:34	
Phenol-d6	24	10 - 107	02/05/20 14:34	
Terphenyl-d14	76	10 - 165	02/05/20 14:34	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 09:58
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW2 DUP	**Units:**	ug/L
Lab Code:	R2000775-008	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	9.3 U	9.3	1.0	1	02/05/20 15:03	2/3/20	
2,3,4,6-Tetrachlorophenol	9.3 U	9.3	1.0	1	02/05/20 15:03	2/3/20	
2,4,5-Trichlorophenol	9.3 U	9.3	1.1	1	02/05/20 15:03	2/3/20	
2,4,6-Trichlorophenol	9.3 U	9.3	1.0	1	02/05/20 15:03	2/3/20	
2,4-Dichlorophenol	9.3 U	9.3	1.0	1	02/05/20 15:03	2/3/20	
2,4-Dimethylphenol	9.3 U	9.3	1.0	1	02/05/20 15:03	2/3/20	
2,4-Dinitrophenol	46 U	46	7.0	1	02/05/20 15:03	2/3/20	
2,4-Dinitrotoluene	9.3 U	9.3	2.7	1	02/05/20 15:03	2/3/20	
2,6-Dinitrotoluene	9.3 U	9.3	1.5	1	02/05/20 15:03	2/3/20	
2-Chloronaphthalene	9.3 U	9.3	1.1	1	02/05/20 15:03	2/3/20	
2-Chlorophenol	9.3 U	9.3	1.0	1	02/05/20 15:03	2/3/20	
2-Methylnaphthalene	9.3 U	9.3	1.0	1	02/05/20 15:03	2/3/20	
2-Methylphenol	9.3 U	9.3	1.0	1	02/05/20 15:03	2/3/20	
2-Nitroaniline	46 U	46	2.4	1	02/05/20 15:03	2/3/20	
2-Nitrophenol	9.3 U	9.3	1.5	1	02/05/20 15:03	2/3/20	
3,3'-Dichlorobenzidine	9.3 U	9.3	1.0	1	02/05/20 15:03	2/3/20	
3- and 4-Methylphenol Coelution	9.3 U	9.3	1.0	1	02/05/20 15:03	2/3/20	
3-Nitroaniline	46 U	46	1.8	1	02/05/20 15:03	2/3/20	
4,6-Dinitro-2-methylphenol	46 U	46	3.7	1	02/05/20 15:03	2/3/20	
4-Bromophenyl Phenyl Ether	9.3 U	9.3	1.4	1	02/05/20 15:03	2/3/20	
4-Chloro-3-methylphenol	9.3 U	9.3	1.1	1	02/05/20 15:03	2/3/20	
4-Chloroaniline	9.3 U	9.3	1.0	1	02/05/20 15:03	2/3/20	
4-Chlorophenyl Phenyl Ether	9.3 U	9.3	1.2	1	02/05/20 15:03	2/3/20	
4-Nitroaniline	46 U	46	1.9	1	02/05/20 15:03	2/3/20	
4-Nitrophenol	46 U	46	3.0	1	02/05/20 15:03	2/3/20	
Acenaphthene	9.3 U	9.3	1.6	1	02/05/20 15:03	2/3/20	
Acenaphthylene	9.3 U	9.3	1.3	1	02/05/20 15:03	2/3/20	
Acetophenone	9.3 U	9.3	1.3	1	02/05/20 15:03	2/3/20	
Anthracene	9.3 U	9.3	1.4	1	02/05/20 15:03	2/3/20	
Atrazine	9.3 U	9.3	1.3	1	02/05/20 15:03	2/3/20	
Benz(a)anthracene	9.3 U	9.3	1.0	1	02/05/20 15:03	2/3/20	
Benzaldehyde	46 U	46	1.1	1	02/05/20 15:03	2/3/20	
Benzo(a)pyrene	9.3 U	9.3	1.3	1	02/05/20 15:03	2/3/20	
Benzo(b)fluoranthene	9.3 U	9.3	1.3	1	02/05/20 15:03	2/3/20	
Benzo(g,h,i)perylene	9.3 U	9.3	1.5	1	02/05/20 15:03	2/3/20	
Benzo(k)fluoranthene	9.3 U	9.3	1.5	1	02/05/20 15:03	2/3/20	
Biphenyl	9.3 U	9.3	1.9	1	02/05/20 15:03	2/3/20	
2,2'-Oxybis(1-chloropropane)	9.3 U	9.3	1.4	1	02/05/20 15:03	2/3/20	
Bis(2-chloroethoxy)methane	9.3 U	9.3	1.0	1	02/05/20 15:03	2/3/20	
Bis(2-chloroethyl) Ether	9.3 U	9.3	1.0	1	02/05/20 15:03	2/3/20	
Bis(2-ethylhexyl) Phthalate	9.7 U	9.7	9.7	1	02/05/20 15:03	2/3/20	
Butyl Benzyl Phthalate	9.3 U	9.3	1.0	1	02/05/20 15:03	2/3/20	
Caprolactam	9.3 U	9.3	1.0	1	02/05/20 15:03	2/3/20	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 09:58
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW2 DUP	**Units:**	ug/L
Lab Code:	R2000775-008	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	9.3 U	9.3	1.3	1	02/05/20 15:03	2/3/20	
Chrysene	9.3 U	9.3	1.5	1	02/05/20 15:03	2/3/20	
Di-n-butyl Phthalate	9.3 U	9.3	1.1	1	02/05/20 15:03	2/3/20	
Di-n-octyl Phthalate	9.3 U	9.3	1.8	1	02/05/20 15:03	2/3/20	
Dibenz(a,h)anthracene	9.3 U	9.3	1.4	1	02/05/20 15:03	2/3/20	
Dibenzofuran	9.3 U	9.3	1.3	1	02/05/20 15:03	2/3/20	
Diethyl Phthalate	9.3 U	9.3	1.2	1	02/05/20 15:03	2/3/20	
Dimethyl Phthalate	9.3 U	9.3	1.5	1	02/05/20 15:03	2/3/20	
Fluoranthene	9.3 U	9.3	1.4	1	02/05/20 15:03	2/3/20	
Fluorene	9.3 U	9.3	1.6	1	02/05/20 15:03	2/3/20	
Hexachlorobenzene	9.3 U	9.3	1.4	1	02/05/20 15:03	2/3/20	
Hexachlorobutadiene	9.3 U	9.3	1.1	1	02/05/20 15:03	2/3/20	
Hexachlorocyclopentadiene	9.3 U	9.3	1.5	1	02/05/20 15:03	2/3/20	
Hexachloroethane	9.3 U	9.3	1.2	1	02/05/20 15:03	2/3/20	
Indeno(1,2,3-cd)pyrene	9.3 U	9.3	1.4	1	02/05/20 15:03	2/3/20	
Isophorone	9.3 U	9.3	1.2	1	02/05/20 15:03	2/3/20	
N-Nitrosodi-n-propylamine	9.3 U	9.3	2.0	1	02/05/20 15:03	2/3/20	
N-Nitrosodiphenylamine	9.3 U	9.3	4.7	1	02/05/20 15:03	2/3/20	
Naphthalene	9.3 U	9.3	1.1	1	02/05/20 15:03	2/3/20	
Nitrobenzene	9.3 U	9.3	1.0	1	02/05/20 15:03	2/3/20	
Pentachlorophenol (PCP)	46 U	46	6.0	1	02/05/20 15:03	2/3/20	
Phenanthrene	9.3 U	9.3	1.6	1	02/05/20 15:03	2/3/20	
Phenol	9.3 U	9.3	3.0	1	02/05/20 15:03	2/3/20	
Pyrene	9.3 U	9.3	1.8	1	02/05/20 15:03	2/3/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	76	35 - 141	02/05/20 15:03	
2-Fluorobiphenyl	63	31 - 118	02/05/20 15:03	
2-Fluorophenol	32	10 - 105	02/05/20 15:03	
Nitrobenzene-d5	60	31 - 110	02/05/20 15:03	
Phenol-d6	21	10 - 107	02/05/20 15:03	
Terphenyl-d14	52	10 - 165	02/05/20 15:03	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 11:35
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW3	**Units:**	ug/L
Lab Code:	R2000775-009	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	9.7 U	9.7	1.0	1	02/11/20 12:01	2/3/20	
2,3,4,6-Tetrachlorophenol	9.7 U	9.7	1.0	1	02/11/20 12:01	2/3/20	
2,4,5-Trichlorophenol	9.7 U	9.7	1.1	1	02/11/20 12:01	2/3/20	
2,4,6-Trichlorophenol	9.7 U	9.7	1.0	1	02/11/20 12:01	2/3/20	
2,4-Dichlorophenol	9.7 U	9.7	1.0	1	02/11/20 12:01	2/3/20	
2,4-Dimethylphenol	9.7 U	9.7	1.0	1	02/11/20 12:01	2/3/20	
2,4-Dinitrophenol	49 U	49	7.0	1	02/11/20 12:01	2/3/20	
2,4-Dinitrotoluene	9.7 U	9.7	2.7	1	02/11/20 12:01	2/3/20	
2,6-Dinitrotoluene	9.7 U	9.7	1.5	1	02/11/20 12:01	2/3/20	
2-Chloronaphthalene	9.7 U	9.7	1.1	1	02/11/20 12:01	2/3/20	
2-Chlorophenol	9.7 U	9.7	1.0	1	02/11/20 12:01	2/3/20	
2-Methylnaphthalene	**3.3 J**	9.7	1.0	1	02/11/20 12:01	2/3/20	
2-Methylphenol	**12**	9.7	1.0	1	02/11/20 12:01	2/3/20	
2-Nitroaniline	49 U	49	2.4	1	02/11/20 12:01	2/3/20	
2-Nitrophenol	9.7 U	9.7	1.5	1	02/11/20 12:01	2/3/20	
3,3'-Dichlorobenzidine	9.7 U	9.7	1.0	1	02/11/20 12:01	2/3/20	
3- and 4-Methylphenol Coelution	**39**	9.7	1.0	1	02/11/20 12:01	2/3/20	
3-Nitroaniline	49 U	49	1.8	1	02/11/20 12:01	2/3/20	
4,6-Dinitro-2-methylphenol	49 U	49	3.7	1	02/11/20 12:01	2/3/20	
4-Bromophenyl Phenyl Ether	9.7 U	9.7	1.4	1	02/11/20 12:01	2/3/20	
4-Chloro-3-methylphenol	9.7 U	9.7	1.1	1	02/11/20 12:01	2/3/20	
4-Chloroaniline	9.7 U	9.7	1.0	1	02/11/20 12:01	2/3/20	
4-Chlorophenyl Phenyl Ether	9.7 U	9.7	1.2	1	02/11/20 12:01	2/3/20	
4-Nitroaniline	49 U	49	1.9	1	02/11/20 12:01	2/3/20	
4-Nitrophenol	49 U	49	3.0	1	02/11/20 12:01	2/3/20	
Acenaphthene	9.7 U	9.7	1.6	1	02/11/20 12:01	2/3/20	
Acenaphthylene	9.7 U	9.7	1.3	1	02/11/20 12:01	2/3/20	
Acetophenone	**24**	9.7	1.3	1	02/11/20 12:01	2/3/20	
Anthracene	9.7 U	9.7	1.4	1	02/11/20 12:01	2/3/20	
Atrazine	9.7 U	9.7	1.3	1	02/11/20 12:01	2/3/20	
Benz(a)anthracene	9.7 U	9.7	1.0	1	02/11/20 12:01	2/3/20	
Benzaldehyde	49 U	49	1.1	1	02/11/20 12:01	2/3/20	
Benzo(a)pyrene	9.7 U	9.7	1.3	1	02/11/20 12:01	2/3/20	
Benzo(b)fluoranthene	9.7 U	9.7	1.3	1	02/11/20 12:01	2/3/20	
Benzo(g,h,i)perylene	9.7 U	9.7	1.5	1	02/11/20 12:01	2/3/20	
Benzo(k)fluoranthene	9.7 U	9.7	1.5	1	02/11/20 12:01	2/3/20	
Biphenyl	9.7 U	9.7	1.9	1	02/11/20 12:01	2/3/20	
2,2'-Oxybis(1-chloropropane)	9.7 U	9.7	1.4	1	02/11/20 12:01	2/3/20	
Bis(2-chloroethoxy)methane	9.7 U	9.7	1.0	1	02/11/20 12:01	2/3/20	
Bis(2-chloroethyl) Ether	9.7 U	9.7	1.0	1	02/11/20 12:01	2/3/20	
Bis(2-ethylhexyl) Phthalate	9.7 U	9.7	9.7	1	02/11/20 12:01	2/3/20	
Butyl Benzyl Phthalate	9.7 U	9.7	1.0	1	02/11/20 12:01	2/3/20	
Caprolactam	9.7 U	9.7	1.0	1	02/11/20 12:01	2/3/20	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 11:35
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW3	**Units:**	ug/L
Lab Code:	R2000775-009	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	9.7 U	9.7	1.3	1	02/11/20 12:01	2/3/20	
Chrysene	9.7 U	9.7	1.5	1	02/11/20 12:01	2/3/20	
Di-n-butyl Phthalate	9.7 U	9.7	1.1	1	02/11/20 12:01	2/3/20	
Di-n-octyl Phthalate	9.7 U	9.7	1.8	1	02/11/20 12:01	2/3/20	
Dibenz(a,h)anthracene	9.7 U	9.7	1.4	1	02/11/20 12:01	2/3/20	
Dibenzofuran	9.7 U	9.7	1.3	1	02/11/20 12:01	2/3/20	
Diethyl Phthalate	9.7 U	9.7	1.2	1	02/11/20 12:01	2/3/20	
Dimethyl Phthalate	9.7 U	9.7	1.5	1	02/11/20 12:01	2/3/20	
Fluoranthene	**1.5 J**	9.7	1.4	1	02/11/20 12:01	2/3/20	
Fluorene	9.7 U	9.7	1.6	1	02/11/20 12:01	2/3/20	
Hexachlorobenzene	9.7 U	9.7	1.4	1	02/11/20 12:01	2/3/20	
Hexachlorobutadiene	9.7 U	9.7	1.1	1	02/11/20 12:01	2/3/20	
Hexachlorocyclopentadiene	9.7 U	9.7	1.5	1	02/11/20 12:01	2/3/20	
Hexachloroethane	9.7 U	9.7	1.2	1	02/11/20 12:01	2/3/20	
Indeno(1,2,3-cd)pyrene	9.7 U	9.7	1.4	1	02/11/20 12:01	2/3/20	
Isophorone	9.7 U	9.7	1.2	1	02/11/20 12:01	2/3/20	
N-Nitrosodi-n-propylamine	9.7 U	9.7	2.0	1	02/11/20 12:01	2/3/20	
N-Nitrosodiphenylamine	9.7 U	9.7	4.7	1	02/11/20 12:01	2/3/20	
Naphthalene	**20**	9.7	1.1	1	02/11/20 12:01	2/3/20	
Nitrobenzene	9.7 U	9.7	1.0	1	02/11/20 12:01	2/3/20	
Pentachlorophenol (PCP)	49 U	49	6.0	1	02/11/20 12:01	2/3/20	
Phenanthrene	9.7 U	9.7	1.6	1	02/11/20 12:01	2/3/20	
Phenol	**20**	9.7	3.0	1	02/11/20 12:01	2/3/20	
Pyrene	9.7 U	9.7	1.8	1	02/11/20 12:01	2/3/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	99	35 - 141	02/11/20 12:01	
2-Fluorobiphenyl	75	31 - 118	02/11/20 12:01	
2-Fluorophenol	25	10 - 105	02/11/20 12:01	
Nitrobenzene-d5	80	31 - 110	02/11/20 12:01	
Phenol-d6	28	10 - 107	02/11/20 12:01	
Terphenyl-d14	37	10 - 165	02/11/20 12:01	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	2.53	720	J
000095-63-6	Benzene, 1,2,4-trimethyl-	4.24	110	JN
000622-96-8	Benzene, 1-ethyl-4-methyl-	4.26	51	JN
	unknown	4.49	240	J
000526-73-8	Benzene, 1,2,3-trimethyl-	4.69	97	JN
	unknown	5.56	67	J

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 11:35
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW3	**Units:**	ug/L
Lab Code:	R2000775-009	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	5.74	270	J
	unknown	5.92	60	J
	unknown	5.99	66	J
	unknown	6.18	210	J
	unknown	6.26	78	J
000083-33-0	1H-Inden-1-one, 2,3-dihydro-	6.37	250	JN
	unknown	6.42	110	J
	unknown	6.77	49	J
	unknown	6.90	51	J
	unknown	7.43	53	J
001879-09-0	6-tert-Butyl-2,4-dimethylphenol	7.67	500	JN

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 09:35
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW2	**Units:**	ug/L
Lab Code:	R2000775-004	**Basis:**	NA

1,4-Dioxane by GC/MS

Analysis Method: 8270D SIM
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	0.040 U	0.040	0.027	1	02/03/20 17:15	2/3/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,4-Dioxane-d8	89	64 - 124	02/03/20 17:15	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 13:44
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	Equipment Blank	**Units:**	ug/L
Lab Code:	R2000775-006	**Basis:**	NA

1,4-Dioxane by GC/MS

Analysis Method: 8270D SIM
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	0.040 U	0.040	0.027	1	02/03/20 18:08	2/3/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,4-Dioxane-d8	91	64 - 124	02/03/20 18:08	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 09:58
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW2 DUP	**Units:**	ug/L
Lab Code:	R2000775-008	**Basis:**	NA

1,4-Dioxane by GC/MS

Analysis Method: 8270D SIM
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	**0.044**	0.040	0.027	1	02/03/20 18:26	2/3/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,4-Dioxane-d8	93	64 - 124	02/03/20 18:26	

Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 09:00
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW4	**Units:**	ug/L
Lab Code:	R2000775-001	**Basis:**	NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	1.0	U	1.0	0.40	20	02/12/20 22:59	1/30/20	
4,4'-DDE	**3.0**		1.0	0.40	20	02/12/20 22:59	1/30/20	
4,4'-DDT	**1.6**	**P**	1.0	0.40	20	02/12/20 22:59	1/30/20	
Aldrin	1.0	U	1.0	0.40	20	02/12/20 22:59	1/30/20	
Dieldrin	**0.51**	**J**	1.0	0.40	20	02/12/20 22:59	1/30/20	
Endosulfan I	1.0	U	1.0	0.40	20	02/12/20 22:59	1/30/20	
Endosulfan II	1.0	U	1.0	0.40	20	02/12/20 22:59	1/30/20	
Endosulfan Sulfate	1.0	U	1.0	0.40	20	02/12/20 22:59	1/30/20	
Endrin	**0.42**	**J**	1.0	0.40	20	02/12/20 22:59	1/30/20	
Endrin Aldehyde	1.0	U	1.0	0.40	20	02/12/20 22:59	1/30/20	
Endrin Ketone	1.0	U	1.0	0.40	20	02/12/20 22:59	1/30/20	
Heptachlor	**0.63**	**J**	1.0	0.40	20	02/12/20 22:59	1/30/20	
Heptachlor Epoxide	1.0	U	1.0	0.40	20	02/12/20 22:59	1/30/20	
Methoxychlor	1.0	U	1.0	0.40	20	02/12/20 22:59	1/30/20	
Toxaphene	10	U	10	10	20	02/12/20 22:59	1/30/20	
alpha-BHC	1.0	U	1.0	0.40	20	02/12/20 22:59	1/30/20	
alpha-Chlordane	1.0	U	1.0	0.40	20	02/12/20 22:59	1/30/20	
beta-BHC	**3.5**	**P**	1.0	0.40	20	02/12/20 22:59	1/30/20	
delta-BHC	1.0	U	1.0	0.40	20	02/12/20 22:59	1/30/20	
gamma-BHC (Lindane)	1.0	U	1.0	0.40	20	02/12/20 22:59	1/30/20	
gamma-Chlordane	1.0	U	1.0	0.40	20	02/12/20 22:59	1/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	0 *	10 - 164	02/12/20 22:59	D
Tetrachloro-m-xylene	0 *	10 - 147	02/12/20 22:59	D

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 09:00
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW4 FP	**Units:**	ug/L
Lab Code:	R2000775-002	**Basis:**	NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	1.0	U	1.0	0.40	20	02/12/20 23:18	1/30/20	
4,4'-DDE	**2.3**		1.0	0.40	20	02/12/20 23:18	1/30/20	
4,4'-DDT	**1.3**	**P**	1.0	0.40	20	02/12/20 23:18	1/30/20	
Aldrin	1.0	U	1.0	0.40	20	02/12/20 23:18	1/30/20	
Dieldrin	**0.48**	**J**	1.0	0.40	20	02/12/20 23:18	1/30/20	
Endosulfan I	1.0	U	1.0	0.40	20	02/12/20 23:18	1/30/20	
Endosulfan II	1.0	U	1.0	0.40	20	02/12/20 23:18	1/30/20	
Endosulfan Sulfate	1.0	U	1.0	0.40	20	02/12/20 23:18	1/30/20	
Endrin	1.0	U	1.0	0.40	20	02/12/20 23:18	1/30/20	
Endrin Aldehyde	1.0	U	1.0	0.40	20	02/12/20 23:18	1/30/20	
Endrin Ketone	1.0	U	1.0	0.40	20	02/12/20 23:18	1/30/20	
Heptachlor	**0.46**	**J**	1.0	0.40	20	02/12/20 23:18	1/30/20	
Heptachlor Epoxide	1.0	U	1.0	0.40	20	02/12/20 23:18	1/30/20	
Methoxychlor	1.0	U	1.0	0.40	20	02/12/20 23:18	1/30/20	
Toxaphene	10	U	10	10	20	02/12/20 23:18	1/30/20	
alpha-BHC	1.0	U	1.0	0.40	20	02/12/20 23:18	1/30/20	
alpha-Chlordane	1.0	U	1.0	0.40	20	02/12/20 23:18	1/30/20	
beta-BHC	**2.3**	**P**	1.0	0.40	20	02/12/20 23:18	1/30/20	
delta-BHC	1.0	U	1.0	0.40	20	02/12/20 23:18	1/30/20	
gamma-BHC (Lindane)	1.0	U	1.0	0.40	20	02/12/20 23:18	1/30/20	
gamma-Chlordane	1.0	U	1.0	0.40	20	02/12/20 23:18	1/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	0 *	10 - 164	02/12/20 23:18	D
Tetrachloro-m-xylene	0 *	10 - 147	02/12/20 23:18	D

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 09:35
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW2	**Units:**	ug/L
Lab Code:	R2000775-004	**Basis:**	NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.047 U	0.047	0.020	1	02/01/20 12:05	1/30/20	
4,4'-DDE	0.047 U	0.047	0.020	1	02/01/20 12:05	1/30/20	
4,4'-DDT	0.047 U	0.047	0.020	1	02/01/20 12:05	1/30/20	
Aldrin	0.047 U	0.047	0.020	1	02/01/20 12:05	1/30/20	
Dieldrin	0.047 U	0.047	0.020	1	02/01/20 12:05	1/30/20	
Endosulfan I	0.047 U	0.047	0.020	1	02/01/20 12:05	1/30/20	
Endosulfan II	0.047 U	0.047	0.020	1	02/01/20 12:05	1/30/20	
Endosulfan Sulfate	0.047 U	0.047	0.020	1	02/01/20 12:05	1/30/20	
Endrin	0.047 U	0.047	0.020	1	02/01/20 12:05	1/30/20	
Endrin Aldehyde	0.047 U	0.047	0.020	1	02/01/20 12:05	1/30/20	
Endrin Ketone	0.047 U	0.047	0.020	1	02/01/20 12:05	1/30/20	
Heptachlor	0.047 U	0.047	0.020	1	02/01/20 12:05	1/30/20	
Heptachlor Epoxide	0.047 U	0.047	0.020	1	02/01/20 12:05	1/30/20	
Methoxychlor	0.047 U	0.047	0.020	1	02/01/20 12:05	1/30/20	
Toxaphene	0.50 U	0.50	0.50	1	02/01/20 12:05	1/30/20	
alpha-BHC	0.047 U	0.047	0.020	1	02/01/20 12:05	1/30/20	
alpha-Chlordane	0.047 U	0.047	0.020	1	02/01/20 12:05	1/30/20	
beta-BHC	0.047 U	0.047	0.020	1	02/01/20 12:05	1/30/20	
delta-BHC	0.047 U	0.047	0.020	1	02/01/20 12:05	1/30/20	
gamma-BHC (Lindane)	0.047 U	0.047	0.020	1	02/01/20 12:05	1/30/20	
gamma-Chlordane	0.047 U	0.047	0.020	1	02/01/20 12:05	1/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	23	10 - 164	02/01/20 12:05	
Tetrachloro-m-xylene	66	10 - 147	02/01/20 12:05	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 12:45
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW5	**Units:**	ug/L
Lab Code:	R2000775-005	**Basis:**	NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.051 U	0.051	0.021	1	02/01/20 13:21	1/30/20	
4,4'-DDE	0.051 U	0.051	0.021	1	02/01/20 13:21	1/30/20	
4,4'-DDT	0.051 U	0.051	0.021	1	02/01/20 13:21	1/30/20	
Aldrin	0.051 U	0.051	0.021	1	02/01/20 13:21	1/30/20	
Dieldrin	0.051 U	0.051	0.021	1	02/01/20 13:21	1/30/20	
Endosulfan I	0.051 U	0.051	0.021	1	02/01/20 13:21	1/30/20	
Endosulfan II	0.051 U	0.051	0.021	1	02/01/20 13:21	1/30/20	
Endosulfan Sulfate	0.051 U	0.051	0.021	1	02/01/20 13:21	1/30/20	
Endrin	0.051 U	0.051	0.021	1	02/01/20 13:21	1/30/20	
Endrin Aldehyde	0.051 U	0.051	0.021	1	02/01/20 13:21	1/30/20	
Endrin Ketone	0.051 U	0.051	0.021	1	02/01/20 13:21	1/30/20	
Heptachlor	0.051 U	0.051	0.021	1	02/01/20 13:21	1/30/20	
Heptachlor Epoxide	0.051 U	0.051	0.021	1	02/01/20 13:21	1/30/20	
Methoxychlor	0.051 U	0.051	0.021	1	02/01/20 13:21	1/30/20	
Toxaphene	0.51 U	0.51	0.51	1	02/01/20 13:21	1/30/20	
alpha-BHC	0.051 U	0.051	0.021	1	02/01/20 13:21	1/30/20	
alpha-Chlordane	0.051 U	0.051	0.021	1	02/01/20 13:21	1/30/20	
beta-BHC	0.051 U	0.051	0.021	1	02/01/20 13:21	1/30/20	
delta-BHC	0.051 U	0.051	0.021	1	02/01/20 13:21	1/30/20	
gamma-BHC (Lindane)	0.051 U	0.051	0.021	1	02/01/20 13:21	1/30/20	
gamma-Chlordane	0.051 U	0.051	0.021	1	02/01/20 13:21	1/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	38	10 - 164	02/01/20 13:21	
Tetrachloro-m-xylene	73	10 - 147	02/01/20 13:21	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 13:44
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	Equipment Blank	**Units:**	ug/L
Lab Code:	R2000775-006	**Basis:**	NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.046 U	0.046	0.020	1	02/01/20 13:41	1/30/20	
4,4'-DDE	0.046 U	0.046	0.020	1	02/01/20 13:41	1/30/20	
4,4'-DDT	0.046 U	0.046	0.020	1	02/01/20 13:41	1/30/20	
Aldrin	0.046 U	0.046	0.020	1	02/01/20 13:41	1/30/20	
Dieldrin	0.046 U	0.046	0.020	1	02/01/20 13:41	1/30/20	
Endosulfan I	0.046 U	0.046	0.020	1	02/01/20 13:41	1/30/20	
Endosulfan II	0.046 U	0.046	0.020	1	02/01/20 13:41	1/30/20	
Endosulfan Sulfate	0.046 U	0.046	0.020	1	02/01/20 13:41	1/30/20	
Endrin	0.046 U	0.046	0.020	1	02/01/20 13:41	1/30/20	
Endrin Aldehyde	0.046 U	0.046	0.020	1	02/01/20 13:41	1/30/20	
Endrin Ketone	0.046 U	0.046	0.020	1	02/01/20 13:41	1/30/20	
Heptachlor	0.046 U	0.046	0.020	1	02/01/20 13:41	1/30/20	
Heptachlor Epoxide	0.046 U	0.046	0.020	1	02/01/20 13:41	1/30/20	
Methoxychlor	0.046 U	0.046	0.020	1	02/01/20 13:41	1/30/20	
Toxaphene	0.50 U	0.50	0.50	1	02/01/20 13:41	1/30/20	
alpha-BHC	0.046 U	0.046	0.020	1	02/01/20 13:41	1/30/20	
alpha-Chlordane	0.046 U	0.046	0.020	1	02/01/20 13:41	1/30/20	
beta-BHC	0.046 U	0.046	0.020	1	02/01/20 13:41	1/30/20	
delta-BHC	0.046 U	0.046	0.020	1	02/01/20 13:41	1/30/20	
gamma-BHC (Lindane)	0.046 U	0.046	0.020	1	02/01/20 13:41	1/30/20	
gamma-Chlordane	0.046 U	0.046	0.020	1	02/01/20 13:41	1/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	24	10 - 164	02/01/20 13:41	
Tetrachloro-m-xylene	67	10 - 147	02/01/20 13:41	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 09:58
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW2 DUP	**Units:**	ug/L
Lab Code:	R2000775-008	**Basis:**	NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.046 U	0.046	0.020	1	02/01/20 14:00	1/30/20	
4,4'-DDE	0.046 U	0.046	0.020	1	02/01/20 14:00	1/30/20	
4,4'-DDT	0.046 U	0.046	0.020	1	02/01/20 14:00	1/30/20	
Aldrin	0.046 U	0.046	0.020	1	02/01/20 14:00	1/30/20	
Dieldrin	0.046 U	0.046	0.020	1	02/01/20 14:00	1/30/20	
Endosulfan I	0.046 U	0.046	0.020	1	02/01/20 14:00	1/30/20	
Endosulfan II	0.046 U	0.046	0.020	1	02/01/20 14:00	1/30/20	
Endosulfan Sulfate	0.046 U	0.046	0.020	1	02/01/20 14:00	1/30/20	
Endrin	0.046 U	0.046	0.020	1	02/01/20 14:00	1/30/20	
Endrin Aldehyde	0.046 U	0.046	0.020	1	02/01/20 14:00	1/30/20	
Endrin Ketone	0.046 U	0.046	0.020	1	02/01/20 14:00	1/30/20	
Heptachlor	0.046 U	0.046	0.020	1	02/01/20 14:00	1/30/20	
Heptachlor Epoxide	0.046 U	0.046	0.020	1	02/01/20 14:00	1/30/20	
Methoxychlor	0.046 U	0.046	0.020	1	02/01/20 14:00	1/30/20	
Toxaphene	0.50 U	0.50	0.50	1	02/01/20 14:00	1/30/20	
alpha-BHC	0.046 U	0.046	0.020	1	02/01/20 14:00	1/30/20	
alpha-Chlordane	0.046 U	0.046	0.020	1	02/01/20 14:00	1/30/20	
beta-BHC	0.046 U	0.046	0.020	1	02/01/20 14:00	1/30/20	
delta-BHC	0.046 U	0.046	0.020	1	02/01/20 14:00	1/30/20	
gamma-BHC (Lindane)	0.046 U	0.046	0.020	1	02/01/20 14:00	1/30/20	
gamma-Chlordane	0.046 U	0.046	0.020	1	02/01/20 14:00	1/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	30	10 - 164	02/01/20 14:00	
Tetrachloro-m-xylene	68	10 - 147	02/01/20 14:00	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 11:35
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW3	**Units:**	ug/L
Lab Code:	R2000775-009	**Basis:**	NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.053 U	0.053	0.022	1	02/01/20 14:19	1/30/20	
4,4'-DDE	0.053 U	0.053	0.022	1	02/01/20 14:19	1/30/20	
4,4'-DDT	0.053 U	0.053	0.022	1	02/01/20 14:19	1/30/20	
Aldrin	0.053 U	0.053	0.022	1	02/01/20 14:19	1/30/20	
Dieldrin	0.053 U	0.053	0.022	1	02/01/20 14:19	1/30/20	
Endosulfan I	0.053 U	0.053	0.022	1	02/01/20 14:19	1/30/20	
Endosulfan II	0.053 U	0.053	0.022	1	02/01/20 14:19	1/30/20	
Endosulfan Sulfate	0.053 U	0.053	0.022	1	02/01/20 14:19	1/30/20	
Endrin	0.053 U	0.053	0.022	1	02/01/20 14:19	1/30/20	
Endrin Aldehyde	0.053 U	0.053	0.022	1	02/01/20 14:19	1/30/20	
Endrin Ketone	0.053 U	0.053	0.022	1	02/01/20 14:19	1/30/20	
Heptachlor	0.053 U	0.053	0.022	1	02/01/20 14:19	1/30/20	
Heptachlor Epoxide	0.053 U	0.053	0.022	1	02/01/20 14:19	1/30/20	
Methoxychlor	0.053 U	0.053	0.022	1	02/01/20 14:19	1/30/20	
Toxaphene	0.53 U	0.53	0.53	1	02/01/20 14:19	1/30/20	
alpha-BHC	0.053 U	0.053	0.022	1	02/01/20 14:19	1/30/20	
alpha-Chlordane	0.053 U	0.053	0.022	1	02/01/20 14:19	1/30/20	
beta-BHC	0.053 U	0.053	0.022	1	02/01/20 14:19	1/30/20	
delta-BHC	0.053 U	0.053	0.022	1	02/01/20 14:19	1/30/20	
gamma-BHC (Lindane)	0.053 U	0.053	0.022	1	02/01/20 14:19	1/30/20	
gamma-Chlordane	0.053 U	0.053	0.022	1	02/01/20 14:19	1/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	9 *	10 - 164	02/01/20 14:19	*
Tetrachloro-m-xylene	44	10 - 147	02/01/20 14:19	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 09:00
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW4	**Units:**	ug/L
Lab Code:	R2000775-001	**Basis:**	NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	20 U	20	10	20	02/12/20 15:05	1/30/20	
Aroclor 1221	40 U	40	20	20	02/12/20 15:05	1/30/20	
Aroclor 1232	20 U	20	10	20	02/12/20 15:05	1/30/20	
Aroclor 1242	20 U	20	10	20	02/12/20 15:05	1/30/20	
Aroclor 1248	**120**	20	10	20	02/12/20 15:05	1/30/20	
Aroclor 1254	**77**	20	10	20	02/12/20 15:05	1/30/20	
Aroclor 1260	**25**	20	10	20	02/12/20 15:05	1/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	0 *	10 - 152	02/12/20 15:05	D
Tetrachloro-m-xylene	0 *	14 - 129	02/12/20 15:05	D

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 09:00
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW4 FP	**Units:**	ug/L
Lab Code:	R2000775-002	**Basis:**	NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	20 U	20	10	20	02/12/20 15:24	1/30/20	
Aroclor 1221	40 U	40	20	20	02/12/20 15:24	1/30/20	
Aroclor 1232	20 U	20	10	20	02/12/20 15:24	1/30/20	
Aroclor 1242	20 U	20	10	20	02/12/20 15:24	1/30/20	
Aroclor 1248	**92**	20	10	20	02/12/20 15:24	1/30/20	
Aroclor 1254	**66**	20	10	20	02/12/20 15:24	1/30/20	
Aroclor 1260	**21**	20	10	20	02/12/20 15:24	1/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	0 *	10 - 152	02/12/20 15:24	D
Tetrachloro-m-xylene	0 *	14 - 129	02/12/20 15:24	D

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/28/20 10:35
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW1	**Units:**	ug/L
Lab Code:	R2000775-003	**Basis:**	NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.93 U	0.93	0.50	1	02/05/20 00:48	1/30/20	
Aroclor 1221	1.9 U	1.9	1.0	1	02/05/20 00:48	1/30/20	
Aroclor 1232	0.93 U	0.93	0.50	1	02/05/20 00:48	1/30/20	
Aroclor 1242	0.93 U	0.93	0.50	1	02/05/20 00:48	1/30/20	
Aroclor 1248	0.93 U	0.93	0.50	1	02/05/20 00:48	1/30/20	
Aroclor 1254	0.93 U	0.93	0.50	1	02/05/20 00:48	1/30/20	
Aroclor 1260	0.93 U	0.93	0.50	1	02/05/20 00:48	1/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	20	10 - 152	02/05/20 00:48	
Tetrachloro-m-xylene	60	14 - 129	02/05/20 00:48	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 09:35
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW2	**Units:**	ug/L
Lab Code:	R2000775-004	**Basis:**	NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.93 U	0.93	0.50	1	02/01/20 07:20	1/30/20	
Aroclor 1221	1.9 U	1.9	1.0	1	02/01/20 07:20	1/30/20	
Aroclor 1232	0.93 U	0.93	0.50	1	02/01/20 07:20	1/30/20	
Aroclor 1242	0.93 U	0.93	0.50	1	02/01/20 07:20	1/30/20	
Aroclor 1248	0.93 U	0.93	0.50	1	02/01/20 07:20	1/30/20	
Aroclor 1254	0.93 U	0.93	0.50	1	02/01/20 07:20	1/30/20	
Aroclor 1260	0.93 U	0.93	0.50	1	02/01/20 07:20	1/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	17	10 - 152	02/01/20 07:20	
Tetrachloro-m-xylene	56	14 - 129	02/01/20 07:20	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 12:45
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW5	**Units:**	ug/L
Lab Code:	R2000775-005	**Basis:**	NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	1.0 U	1.0	0.51	1	02/01/20 08:21	1/30/20	
Aroclor 1221	2.0 U	2.0	1.1	1	02/01/20 08:21	1/30/20	
Aroclor 1232	1.0 U	1.0	0.51	1	02/01/20 08:21	1/30/20	
Aroclor 1242	1.0 U	1.0	0.51	1	02/01/20 08:21	1/30/20	
Aroclor 1248	1.0 U	1.0	0.51	1	02/01/20 08:21	1/30/20	
Aroclor 1254	1.0 U	1.0	0.51	1	02/01/20 08:21	1/30/20	
Aroclor 1260	1.0 U	1.0	0.51	1	02/01/20 08:21	1/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	33	10 - 152	02/01/20 08:21	
Tetrachloro-m-xylene	64	14 - 129	02/01/20 08:21	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 13:44
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	Equipment Blank	**Units:**	ug/L
Lab Code:	R2000775-006	**Basis:**	NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.93 U	0.93	0.50	1	02/01/20 08:42	1/30/20	
Aroclor 1221	1.9 U	1.9	1.0	1	02/01/20 08:42	1/30/20	
Aroclor 1232	0.93 U	0.93	0.50	1	02/01/20 08:42	1/30/20	
Aroclor 1242	0.93 U	0.93	0.50	1	02/01/20 08:42	1/30/20	
Aroclor 1248	0.93 U	0.93	0.50	1	02/01/20 08:42	1/30/20	
Aroclor 1254	0.93 U	0.93	0.50	1	02/01/20 08:42	1/30/20	
Aroclor 1260	0.93 U	0.93	0.50	1	02/01/20 08:42	1/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	21	10 - 152	02/01/20 08:42	
Tetrachloro-m-xylene	59	14 - 129	02/01/20 08:42	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 09:58
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW2 DUP	**Units:**	ug/L
Lab Code:	R2000775-008	**Basis:**	NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.93 U	0.93	0.50	1	02/01/20 09:02	1/30/20	
Aroclor 1221	1.9 U	1.9	1.0	1	02/01/20 09:02	1/30/20	
Aroclor 1232	0.93 U	0.93	0.50	1	02/01/20 09:02	1/30/20	
Aroclor 1242	0.93 U	0.93	0.50	1	02/01/20 09:02	1/30/20	
Aroclor 1248	0.93 U	0.93	0.50	1	02/01/20 09:02	1/30/20	
Aroclor 1254	0.93 U	0.93	0.50	1	02/01/20 09:02	1/30/20	
Aroclor 1260	0.93 U	0.93	0.50	1	02/01/20 09:02	1/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	26	10 - 152	02/01/20 09:02	
Tetrachloro-m-xylene	61	14 - 129	02/01/20 09:02	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 11:35
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW3	**Units:**	ug/L
Lab Code:	R2000775-009	**Basis:**	NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	1.1 U	1.1	0.53	1	02/01/20 09:22	1/30/20	
Aroclor 1221	2.1 U	2.1	1.1	1	02/01/20 09:22	1/30/20	
Aroclor 1232	1.1 U	1.1	0.53	1	02/01/20 09:22	1/30/20	
Aroclor 1242	1.1 U	1.1	0.53	1	02/01/20 09:22	1/30/20	
Aroclor 1248	1.1 U	1.1	0.53	1	02/01/20 09:22	1/30/20	
Aroclor 1254	1.1 U	1.1	0.53	1	02/01/20 09:22	1/30/20	
Aroclor 1260	1.1 U	1.1	0.53	1	02/01/20 09:22	1/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	9 *	10 - 152	02/01/20 09:22	*
Tetrachloro-m-xylene	41	14 - 129	02/01/20 09:22	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 09:00
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW4	**Units:**	ug/L
Lab Code:	R2000775-001	**Basis:**	NA

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	10 U	10	4.1	20	02/06/20 14:53	1/31/20	
2,4,5-TP	10 U	10	3.8	20	02/06/20 14:53	1/31/20	
2,4-D	10 U	10	6.2	20	02/06/20 14:53	1/31/20	
Dicamba	10 U	10	4.0	20	02/06/20 14:53	1/31/20	
Dinoseb	10 U	10	3.4	20	02/06/20 14:53	1/31/20	
Pentachlorophenol (PCP)	10 U	10	5.2	20	02/06/20 14:53	1/31/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	0 *	10 - 136	02/06/20 14:53	D

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 09:00
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW4 FP	**Units:**	ug/L
Lab Code:	R2000775-002	**Basis:**	NA

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	10 U	10	4.1	20	02/06/20 15:30	1/31/20	
2,4,5-TP	10 U	10	3.8	20	02/06/20 15:30	1/31/20	
2,4-D	10 U	10	6.2	20	02/06/20 15:30	1/31/20	
Dicamba	10 U	10	4.0	20	02/06/20 15:30	1/31/20	
Dinoseb	10 U	10	3.4	20	02/06/20 15:30	1/31/20	
Pentachlorophenol (PCP)	10 U	10	5.2	20	02/06/20 15:30	1/31/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	0 *	10 - 136	02/06/20 15:30	D

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 09:35
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW2	**Units:**	ug/L
Lab Code:	R2000775-004	**Basis:**	NA

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	0.50 U	0.50	0.21	1	02/04/20 19:28	1/31/20	
2,4,5-TP	0.50 U	0.50	0.19	1	02/04/20 19:28	1/31/20	
2,4-D	0.50 U	0.50	0.31	1	02/04/20 19:28	1/31/20	
Dicamba	0.50 U	0.50	0.20	1	02/04/20 19:28	1/31/20	
Dinoseb	0.50 U	0.50	0.17	1	02/04/20 19:28	1/31/20	
Pentachlorophenol (PCP)	0.50 U	0.50	0.26	1	02/04/20 19:28	1/31/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	42	10 - 136	02/04/20 19:28	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 12:45
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW5	**Units:**	ug/L
Lab Code:	R2000775-005	**Basis:**	NA

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	0.52 U	0.52	0.21	1	02/04/20 21:59	1/31/20	
2,4,5-TP	0.52 U	0.52	0.20	1	02/04/20 21:59	1/31/20	
2,4-D	0.52 U	0.52	0.32	1	02/04/20 21:59	1/31/20	
Dicamba	0.52 U	0.52	0.21	1	02/04/20 21:59	1/31/20	
Dinoseb	0.52 U	0.52	0.18	1	02/04/20 21:59	1/31/20	
Pentachlorophenol (PCP)	0.52 U	0.52	0.27	1	02/04/20 21:59	1/31/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	44	10 - 136	02/04/20 21:59	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 13:44
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	Equipment Blank	**Units:**	ug/L
Lab Code:	R2000775-006	**Basis:**	NA

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	0.50 U	0.50	0.21	1	02/04/20 22:36	1/31/20	
2,4,5-TP	0.50 U	0.50	0.19	1	02/04/20 22:36	1/31/20	
2,4-D	0.50 U	0.50	0.31	1	02/04/20 22:36	1/31/20	
Dicamba	0.50 U	0.50	0.20	1	02/04/20 22:36	1/31/20	
Dinoseb	0.50 U	0.50	0.17	1	02/04/20 22:36	1/31/20	
Pentachlorophenol (PCP)	0.50 U	0.50	0.26	1	02/04/20 22:36	1/31/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	26	10 - 136	02/04/20 22:36	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 09:58
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW2 DUP	**Units:**	ug/L
Lab Code:	R2000775-008	**Basis:**	NA

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	0.50 U	0.50	0.21	1	02/04/20 23:00	1/31/20	
2,4,5-TP	0.50 U	0.50	0.19	1	02/04/20 23:00	1/31/20	
2,4-D	0.50 U	0.50	0.31	1	02/04/20 23:00	1/31/20	
Dicamba	0.50 U	0.50	0.20	1	02/04/20 23:00	1/31/20	
Dinoseb	0.50 U	0.50	0.17	1	02/04/20 23:00	1/31/20	
Pentachlorophenol (PCP)	0.50 U	0.50	0.26	1	02/04/20 23:00	1/31/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	40	10 - 136	02/04/20 23:00	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 11:35
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW3	**Units:**	ug/L
Lab Code:	R2000775-009	**Basis:**	NA

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	0.50 U	0.50	0.21	1	02/04/20 23:36	1/31/20	
2,4,5-TP	0.50 U	0.50	0.19	1	02/04/20 23:36	1/31/20	
2,4-D	0.50 U	0.50	0.31	1	02/04/20 23:36	1/31/20	
Dicamba	0.50 U	0.50	0.20	1	02/04/20 23:36	1/31/20	
Dinoseb	0.50 U	0.50	0.17	1	02/04/20 23:36	1/31/20	
Pentachlorophenol (PCP)	0.50 U	0.50	0.26	1	02/04/20 23:36	1/31/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	35	10 - 136	02/04/20 23:36	

Metals

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

METALS
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INORGANIC ANALYSIS DATA PACKAGE

Client: Leader Professional Services, In
Project No.: R2000775
Project Name:
Matrix: WATER

Service Request: MW4
Date Collected: 1/27/2020
Date Received: 1/28/2020
Units: ug/L
Basis:

Sample Name: MW4 **Lab Code:** R2000775-001

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	100	23.0	1.0	7020		
Antimony	6010C	60.0	4.7	1.0	105		
Arsenic	6010C	10.0	3.9	1.0	22.4		
Barium	6010C	20.0	3.0	1.0	1050		
Beryllium	6010C	3.0	0.130	1.0	0.300	J	
Cadmium	6010C	5.0	0.350	1.0	8.5		
Mercury	7470A	0.200	0.077	1.0	3.2		
Calcium	6010C	10000	2200	10.0	335000		
Chromium	6010C	10.0	0.590	1.0	55.2		
Cobalt	6010C	50.0	0.890	1.0	127		
Copper	6010C	20.0	3.9	1.0	49.6		
Iron	6010C	1000	180	10.0	63800		
Lead	6010C	50.0	2.1	1.0	2830		
Magnesium	6010C	1000	29.0	1.0	129000		
Manganese	6010C	10.0	3.7	1.0	6430		
Nickel	6010C	40.0	2.6	1.0	40.0	U	
Potassium	6010C	2000	200	1.0	80500		
Selenium	6010C	100	46.0	10.0	100	U	
Silver	6010C	10.0	0.570	1.0	10.0	U	
Sodium	6010C	10000	1300	10.0	961000		
Thallium	6010C	10.0	6.6	1.0	10.0	U	
Vanadium	6010C	50.0	0.670	1.0	16.1	J	
Zinc	6010C	2000	940	100.0	160000		

% Solids: 0.0

Comments:

METALS
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INORGANIC ANALYSIS DATA PACKAGE

Client: Leader Professional Services, In
Project No.: R2000775
Project Name:
Matrix: WATER

Service Request: MW4
Date Collected: 1/27/2020
Date Received: 1/28/2020
Units: ug/L
Basis:

Sample Name: MW4 FP
Lab Code: R2000775-002

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	100	23.0	1.0	5880		
Antimony	6010C	60.0	4.7	1.0	95.1		
Arsenic	6010C	10.0	3.9	1.0	25.5		
Barium	6010C	20.0	3.0	1.0	955		
Beryllium	6010C	3.0	0.130	1.0	0.200	J	
Cadmium	6010C	5.0	0.350	1.0	8.6		
Mercury	7470A	0.200	0.077	1.0	2.1		
Calcium	6010C	10000	2200	10.0	291000		
Chromium	6010C	10.0	0.590	1.0	72.8		
Cobalt	6010C	50.0	0.890	1.0	126		
Copper	6010C	20.0	3.9	1.0	42.4		
Iron	6010C	100	18.0	1.0	44800		
Lead	6010C	50.0	2.1	1.0	2260		
Magnesium	6010C	1000	29.0	1.0	130000		
Manganese	6010C	10.0	3.7	1.0	6060		
Nickel	6010C	40.0	2.6	1.0	40.0	U	
Potassium	6010C	2000	200	1.0	82600		
Selenium	6010C	100	46.0	10.0	100	U	
Silver	6010C	10.0	0.570	1.0	10.0	U	
Sodium	6010C	10000	1300	10.0	927000		
Thallium	6010C	10.0	6.6	1.0	10.0	U	
Vanadium	6010C	50.0	0.670	1.0	12.9	J	
Zinc	6010C	2000	940	100.0	155000		

% Solids: 0.0

Comments:

METALS
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INORGANIC ANALYSIS DATA PACKAGE

Client: Leader Professional Services, In
Project No.: R2000775
Project Name:
Matrix: WATER

Service Request: MW4
Date Collected: 1/28/2020
Date Received: 1/28/2020
Units: ug/L
Basis:

Sample Name: MW1 **Lab Code:** R2000775-003

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	100	23.0	1.0	5350		
Antimony	6010C	60.0	4.7	1.0	60.0	U	
Arsenic	6010C	10.0	3.9	1.0	4.2	J	
Barium	6010C	20.0	3.0	1.0	128		
Beryllium	6010C	3.0	0.130	1.0	3.0	U	
Cadmium	6010C	5.0	0.350	1.0	1.0	J	
Mercury	7470A	0.200	0.077	1.0	0.491		
Calcium	6010C	1000	220	1.0	119000		
Chromium	6010C	10.0	0.590	1.0	19.3		
Cobalt	6010C	50.0	0.890	1.0	2.4	J	
Copper	6010C	20.0	3.9	1.0	10.4	J	
Iron	6010C	100	18.0	1.0	4070		
Lead	6010C	50.0	2.1	1.0	16.6	J	
Magnesium	6010C	1000	29.0	1.0	89200		
Manganese	6010C	10.0	3.7	1.0	220		
Nickel	6010C	40.0	2.6	1.0	40.0	U	
Potassium	6010C	2000	200	1.0	6880		
Selenium	6010C	10.0	4.6	1.0	10.0	U	
Silver	6010C	10.0	0.570	1.0	10.0	U	
Sodium	6010C	1000	130	1.0	47000		
Thallium	6010C	10.0	6.6	1.0	10.0	U	
Vanadium	6010C	50.0	0.670	1.0	9.2	J	
Zinc	6010C	20.0	9.4	1.0	41.3		

% Solids: 0.0

Comments:

METALS
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INORGANIC ANALYSIS DATA PACKAGE

Client: Leader Professional Services, In
Project No.: R2000775
Project Name:
Matrix: WATER

Service Request: MW4
Date Collected: 1/27/2020
Date Received: 1/28/2020
Units: ug/L
Basis:

Sample Name: MW2 **Lab Code:** R2000775-004

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	100	23.0	1.0	241		
Antimony	6010C	60.0	4.7	1.0	60.0	U	
Arsenic	6010C	10.0	3.9	1.0	10.0	U	
Barium	6010C	20.0	3.0	1.0	18.5	J	
Beryllium	6010C	3.0	0.130	1.0	3.0	U	
Cadmium	6010C	5.0	0.350	1.0	5.0	U	
Mercury	7470A	0.200	0.077	1.0	0.200	U	
Calcium	6010C	1000	220	1.0	40700		
Chromium	6010C	10.0	0.590	1.0	1.2	J	
Cobalt	6010C	50.0	0.890	1.0	50.0	U	
Copper	6010C	20.0	3.9	1.0	20.0	U	
Iron	6010C	100	18.0	1.0	142		
Lead	6010C	50.0	2.1	1.0	50.0	U	
Magnesium	6010C	1000	29.0	1.0	4540		
Manganese	6010C	10.0	3.7	1.0	25.8		
Nickel	6010C	40.0	2.6	1.0	40.0	U	
Potassium	6010C	2000	200	1.0	1570	J	
Selenium	6010C	10.0	4.6	1.0	10.0	U	
Silver	6010C	10.0	0.570	1.0	10.0	U	
Sodium	6010C	1000	130	1.0	4980		
Thallium	6010C	10.0	6.6	1.0	10.0	U	
Vanadium	6010C	50.0	0.670	1.0	50.0	U	
Zinc	6010C	20.0	9.4	1.0	14.3	J	

% Solids: 0.0

Comments:

METALS
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INORGANIC ANALYSIS DATA PACKAGE

Client: Leader Professional Services, In
Project No.: R2000775
Project Name:
Matrix: WATER

Service Request: MW4
Date Collected: 1/27/2020
Date Received: 1/28/2020
Units: ug/L
Basis:

Sample Name: MW5 **Lab Code:** R2000775-005

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	100	23.0	1.0	100	U	
Antimony	6010C	60.0	4.7	1.0	60.0	U	
Arsenic	6010C	10.0	3.9	1.0	10.0	U	
Barium	6010C	20.0	3.0	1.0	50.4		
Beryllium	6010C	3.0	0.130	1.0	3.0	U	
Cadmium	6010C	5.0	0.350	1.0	5.0	U	
Mercury	7470A	0.200	0.077	1.0	0.200	U	
Calcium	6010C	1000	220	1.0	118000		
Chromium	6010C	10.0	0.590	1.0	10.0	U	
Cobalt	6010C	50.0	0.890	1.0	50.0	U	
Copper	6010C	20.0	3.9	1.0	20.0	U	
Iron	6010C	100	18.0	1.0	460		
Lead	6010C	50.0	2.1	1.0	50.0	U	
Magnesium	6010C	1000	29.0	1.0	85500		
Manganese	6010C	10.0	3.7	1.0	17.1		
Nickel	6010C	40.0	2.6	1.0	40.0	U	
Potassium	6010C	2000	200	1.0	3190		
Selenium	6010C	10.0	4.6	1.0	10.0	U	
Silver	6010C	10.0	0.570	1.0	10.0	U	
Sodium	6010C	1000	130	1.0	81600		
Thallium	6010C	10.0	6.6	1.0	10.0	U	
Vanadium	6010C	50.0	0.670	1.0	50.0	U	
Zinc	6010C	20.0	9.4	1.0	20.0	U	

% Solids: 0.0

Comments:

METALS
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INORGANIC ANALYSIS DATA PACKAGE

Client: Leader Professional Services, In
Project No.: R2000775
Project Name:
Matrix: WATER

Service Request: MW4
Date Collected: 1/27/2020
Date Received: 1/28/2020
Units: ug/L
Basis:

Sample Name: Equipment Blank **Lab Code:** R2000775-006

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	100	23.0	1.0	100	U	
Antimony	6010C	60.0	4.7	1.0	60.0	U	
Arsenic	6010C	10.0	3.9	1.0	10.0	U	
Barium	6010C	20.0	3.0	1.0	20.0	U	
Beryllium	6010C	3.0	0.130	1.0	3.0	U	
Cadmium	6010C	5.0	0.350	1.0	5.0	U	
Mercury	7470A	0.200	0.077	1.0	0.200	U	
Calcium	6010C	1000	220	1.0	1000	U	
Chromium	6010C	10.0	0.590	1.0	10.0	U	
Cobalt	6010C	50.0	0.890	1.0	50.0	U	
Copper	6010C	20.0	3.9	1.0	20.0	U	
Iron	6010C	100	18.0	1.0	100	U	
Lead	6010C	50.0	2.1	1.0	50.0	U	
Magnesium	6010C	1000	29.0	1.0	1000	U	
Manganese	6010C	10.0	3.7	1.0	10.0	U	
Nickel	6010C	40.0	2.6	1.0	40.0	U	
Potassium	6010C	2000	200	1.0	2000	U	
Selenium	6010C	10.0	4.6	1.0	10.0	U	
Silver	6010C	10.0	0.570	1.0	10.0	U	
Sodium	6010C	1000	130	1.0	1000	U	
Thallium	6010C	10.0	6.6	1.0	10.0	U	
Vanadium	6010C	50.0	0.670	1.0	50.0	U	
Zinc	6010C	20.0	9.4	1.0	20.0	U	

% Solids: 0.0

Comments:

METALS
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INORGANIC ANALYSIS DATA PACKAGE

Client: Leader Professional Services, In
Project No.: R2000775
Project Name:
Matrix: WATER

Service Request: MW4
Date Collected: 1/27/2020
Date Received: 1/28/2020
Units: ug/L
Basis:

Sample Name: MW2 DUP
Lab Code: R2000775-008

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	100	23.0	1.0	232		
Antimony	6010C	60.0	4.7	1.0	60.0	U	
Arsenic	6010C	10.0	3.9	1.0	10.0	U	
Barium	6010C	20.0	3.0	1.0	18.5	J	
Beryllium	6010C	3.0	0.130	1.0	3.0	U	
Cadmium	6010C	5.0	0.350	1.0	5.0	U	
Mercury	7470A	0.200	0.077	1.0	0.200	U	
Calcium	6010C	1000	220	1.0	40300		
Chromium	6010C	10.0	0.590	1.0	1.0	J	
Cobalt	6010C	50.0	0.890	1.0	50.0	U	
Copper	6010C	20.0	3.9	1.0	20.0	U	
Iron	6010C	100	18.0	1.0	135		
Lead	6010C	50.0	2.1	1.0	50.0	U	
Magnesium	6010C	1000	29.0	1.0	4900		
Manganese	6010C	10.0	3.7	1.0	31.9		
Nickel	6010C	40.0	2.6	1.0	40.0	U	
Potassium	6010C	2000	200	1.0	1460	J	
Selenium	6010C	10.0	4.6	1.0	10.0	U	
Silver	6010C	10.0	0.570	1.0	10.0	U	
Sodium	6010C	1000	130	1.0	4940		
Thallium	6010C	10.0	6.6	1.0	10.0	U	
Vanadium	6010C	50.0	0.670	1.0	50.0	U	
Zinc	6010C	20.0	9.4	1.0	20.0	U	

% Solids: 0.0

Comments:

METALS
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INORGANIC ANALYSIS DATA PACKAGE

Client: Leader Professional Services, In
Project No.: R2000775
Project Name:
Matrix: WATER

Service Request: MW4
Date Collected: 1/27/2020
Date Received: 1/28/2020
Units: ug/L
Basis:

Sample Name: MW3 **Lab Code:** R2000775-009

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	100	23.0	1.0	579		
Antimony	6010C	60.0	4.7	1.0	5.9	J	
Arsenic	6010C	10.0	3.9	1.0	6.3	J	
Barium	6010C	20.0	3.0	1.0	290		
Beryllium	6010C	3.0	0.130	1.0	3.0	U	
Cadmium	6010C	5.0	0.350	1.0	5.0	U	
Mercury	7470A	0.200	0.077	1.0	0.200	U	
Calcium	6010C	1000	220	1.0	125000		
Chromium	6010C	10.0	0.590	1.0	7.1	J	
Cobalt	6010C	50.0	0.890	1.0	19.7	J	
Copper	6010C	20.0	3.9	1.0	13.2	J	
Iron	6010C	100	18.0	1.0	4940		
Lead	6010C	50.0	2.1	1.0	41.3	J	
Magnesium	6010C	1000	29.0	1.0	35300		
Manganese	6010C	10.0	3.7	1.0	488		
Nickel	6010C	40.0	2.6	1.0	40.0	U	
Potassium	6010C	2000	200	1.0	14300		
Selenium	6010C	10.0	4.6	1.0	10.0	U	
Silver	6010C	10.0	0.570	1.0	10.0	U	
Sodium	6010C	1000	130	1.0	31600		
Thallium	6010C	10.0	6.6	1.0	10.0	U	
Vanadium	6010C	50.0	0.670	1.0	5.6	J	
Zinc	6010C	20.0	9.4	1.0	846		

% Solids: 0.0

Comments:

General Chemistry

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
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www.alsglobal.com

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 09:00
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW4	**Basis:**	NA
Lab Code:	R2000775-001		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	**0.004 J**	mg/L	0.010	0.004	1	01/30/20 20:10	01/30/20	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 09:00
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW4 FP	**Basis:**	NA
Lab Code:	R2000775-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	0.010 U	mg/L	0.010	0.004	1	01/30/20 20:10	01/30/20	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/28/20 10:35
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW1	**Basis:**	NA
Lab Code:	R2000775-003		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	**0.007 J**	mg/L	0.010	0.004	1	01/30/20 20:11	01/30/20	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 09:35
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW2	**Basis:**	NA
Lab Code:	R2000775-004		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	0.010 U	mg/L	0.010	0.004	1	01/30/20 20:12	01/30/20	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 12:45
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW5	**Basis:**	NA
Lab Code:	R2000775-005		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	0.010 U	mg/L	0.010	0.004	1	01/30/20 20:14	01/30/20	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 13:44
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	Equipment Blank	**Basis:**	NA
Lab Code:	R2000775-006		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	0.010 U	mg/L	0.010	0.004	1	01/30/20 20:17	01/30/20	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 09:58
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW2 DUP	**Basis:**	NA
Lab Code:	R2000775-008		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	0.010 U	mg/L	0.010	0.004	1	01/30/20 20:18	01/30/20	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 11:35
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW3	**Basis:**	NA
Lab Code:	R2000775-009		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	**0.017**	mg/L	0.010	0.004	1	01/30/20 20:19	01/30/20	

QC Summary Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
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Volatile Organic Compounds by GC/MS

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Client: Leader Professional Services, Inc. **Service Request:** R2000775
Project: Tonawanda Bisonite Paint/235.198A
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene 85-122	Dibromofluoromethane 89-119	Toluene-d8 87-121
MW4	R2000775-001	93	96	99
MW4 DL	R2000775-001	95	97	100
MW4 FP	R2000775-002	96	98	101
MW4 FP DL	R2000775-002	94	95	98
MW1	R2000775-003	94	96	99
MW2	R2000775-004	92	95	96
MW5	R2000775-005	91	92	94
Equipment Blank	R2000775-006	91	94	97
Trip Blank	R2000775-007	94	96	100
MW2 DUP	R2000775-008	94	94	97
MW3	R2000775-009	90	93	97
MW3 DL	R2000775-009	98	97	101
Method Blank	RQ2001045-04	91	92	95
Method Blank	RQ2001093-04	91	94	97
Lab Control Sample	RQ2001045-03	95	98	99
Lab Control Sample	RQ2001093-03	95	97	98
MW2 MS	RQ2001045-05	94	96	97
MW2 DMS	RQ2001045-06	90	97	96

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20
Sample Matrix:	Water	**Date Received:**	01/28/20
		Date Analyzed:	02/3/20
		Date Extracted:	NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name:	MW2	**Units:**	ug/L
Lab Code:	R2000775-004	**Basis:**	NA
Analysis Method:	8260C		
Prep Method:	EPA 5030C		

		Matrix Spike RQ2001045-05			**Duplicate Matrix Spike** RQ2001045-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,1,1-Trichloroethane (TCA)	1.0 U	50.2	50.0	100	51.8	50.0	104	74-127	3	30
1,1,2,2-Tetrachloroethane	1.0 U	52.2	50.0	104	53.2	50.0	106	72-122	2	30
1,1,2-Trichloroethane	1.0 U	48.5	50.0	97	47.7	50.0	95	82-121	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	53.1	50.0	106	53.4	50.0	107	50-147	<1	30
1,1-Dichloroethane (1,1-DCA)	1.0 U	52.6	50.0	105	52.4	50.0	105	74-132	<1	30
1,1-Dichloroethene (1,1-DCE)	1.0 U	53.0	50.0	106	52.5	50.0	105	71-118	<1	30
1,2,3-Trichlorobenzene	1.0 U	47.4	50.0	95	48.3	50.0	97	59-129	2	30
1,2,4-Trichlorobenzene	1.0 U	48.6	50.0	97	48.6	50.0	97	69-122	<1	30
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	47.0	50.0	94	50.7	50.0	101	37-150	7	30
1,2-Dibromoethane	1.0 U	50.0	50.0	100	50.1	50.0	100	67-127	<1	30
1,2-Dichlorobenzene	1.0 U	48.0	50.0	96	48.5	50.0	97	77-120	1	30
1,2-Dichloroethane	1.0 U	47.7	50.0	95	46.2	50.0	92	68-130	3	30
1,2-Dichloropropane	1.0 U	49.6	50.0	99	49.6	50.0	99	79-124	<1	30
1,3-Dichlorobenzene	1.0 U	49.6	50.0	99	49.7	50.0	99	83-121	<1	30
1,4-Dichlorobenzene	1.0 U	48.0	50.0	96	48.4	50.0	97	82-120	<1	30
1,4-Dioxane	40 U	1110	1000	111	1070	1000	107	44-154	4	30
2-Butanone (MEK)	5.0 U	50.6	50.0	101	51.0	50.0	102	61-137	<1	30
2-Hexanone	5.0 U	52.9	50.0	106	50.2	50.0	100	56-132	5	30
4-Methyl-2-pentanone	5.0 U	52.3	50.0	105	49.1	50.0	98	60-141	6	30
Acetone	2.5 BJ	54.1	50.0	103	48.2	50.0	91	35-183	11	30
Benzene	1.0 U	52.9	50.0	106	51.7	50.0	103	76-129	2	30
Bromochloromethane	1.0 U	50.3	50.0	101	50.7	50.0	101	80-122	<1	30
Bromodichloromethane	1.0 U	49.6	50.0	99	50.3	50.0	101	78-133	1	30
Bromoform	1.0 U	46.2	50.0	92	51.1	50.0	102	58-133	10	30
Bromomethane	1.0 U	37.5	50.0	75	37.2	50.0	74	10-184	<1	30
Carbon Disulfide	1.0 U	49.3	50.0	99	48.5	50.0	97	59-140	2	30
Carbon Tetrachloride	1.0 U	47.3	50.0	95	48.5	50.0	97	65-135	2	30
Chlorobenzene	1.0 U	52.4	50.0	105	52.7	50.0	105	76-125	<1	30
Chloroethane	1.0 U	49.0	50.0	98	48.3	50.0	97	48-146	1	30
Chloroform	1.0 U	48.5	50.0	97	48.2	50.0	96	75-130	<1	30
Chloromethane	0.53 J	45.6	50.0	90	45.9	50.0	91	55-160	<1	30
Cyclohexane	1.0 U	49.9	50.0	100	48.6	50.0	97	52-145	3	30
Dibromochloromethane	1.0 U	49.5	50.0	99	53.1	50.0	106	72-128	7	30
Dichlorodifluoromethane (CFC 12)	1.0 U	42.2	50.0	84	42.2	50.0	84	49-154	<1	30
Dichloromethane	1.0 U	46.4	50.0	93	46.8	50.0	94	73-122	<1	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20
Sample Matrix:	Water	**Date Received:**	01/28/20
		Date Analyzed:	02/3/20
		Date Extracted:	NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name:	MW2	**Units:**	ug/L
Lab Code:	R2000775-004	**Basis:**	NA
Analysis Method:	8260C		
Prep Method:	EPA 5030C		

		Matrix Spike RQ2001045-05			Duplicate Matrix Spike RQ2001045-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Ethylbenzene	1.0 U	53.1	50.0	106	52.1	50.0	104	72-134	2	30
Isopropylbenzene (Cumene)	1.0 U	53.3	50.0	107	53.8	50.0	108	77-128	<1	30
Methyl Acetate	2.0 U	51.0	50.0	102	50.9	50.0	102	26-121	<1	30
Methyl tert-Butyl Ether	1.0 U	51.1	50.0	102	51.0	50.0	102	75-119	<1	30
Methylcyclohexane	1.0 U	48.5	50.0	97	48.6	50.0	97	45-146	<1	30
Styrene	1.0 U	51.2	50.0	102	51.2	50.0	102	74-136	<1	30
Tetrachloroethene (PCE)	1.0 U	51.3	50.0	103	51.6	50.0	103	72-125	<1	30
Toluene	1.0 U	53.0	50.0	106	51.5	50.0	103	79-119	3	30
Trichloroethene (TCE)	8.1	61.8	50.0	108	60.1	50.0	104	74-122	3	30
Trichlorofluoromethane (CFC 11)	1.0 U	54.7	50.0	109	54.7	50.0	109	71-136	<1	30
Vinyl Chloride	0.37 J	48.7	50.0	97	48.2	50.0	96	74-159	1	30
cis-1,2-Dichloroethene	13	71.6	50.0	117	67.9	50.0	109	77-127	5	30
cis-1,3-Dichloropropene	1.0 U	48.4	50.0	97	48.5	50.0	97	52-134	<1	30
m,p-Xylenes	2.0 U	108	100	108	109	100	109	80-126	1	30
o-Xylene	1.0 U	52.5	50.0	105	52.8	50.0	106	79-123	<1	30
trans-1,2-Dichloroethene	1.0 U	52.8	50.0	106	52.6	50.0	105	73-118	<1	30
trans-1,3-Dichloropropene	1.0 U	47.8	50.0	96	47.3	50.0	95	71-133	<1	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2001045-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.21	1	02/03/20 12:45	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	02/03/20 12:45	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	02/03/20 12:45	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	02/03/20 12:45	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	02/03/20 12:45	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.25	1	02/03/20 12:45	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.20	1	02/03/20 12:45	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.25	1	02/03/20 12:45	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	02/03/20 12:45	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	02/03/20 12:45	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	02/03/20 12:45	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	02/03/20 12:45	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	02/03/20 12:45	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	02/03/20 12:45	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	02/03/20 12:45	
1,4-Dioxane	40 U	40	13	1	02/03/20 12:45	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	02/03/20 12:45	
2-Hexanone	5.0 U	5.0	0.20	1	02/03/20 12:45	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	02/03/20 12:45	
Acetone	**9.6**	5.0	2.1	1	02/03/20 12:45	
Benzene	1.0 U	1.0	0.20	1	02/03/20 12:45	
Bromochloromethane	1.0 U	1.0	0.24	1	02/03/20 12:45	
Bromodichloromethane	1.0 U	1.0	0.22	1	02/03/20 12:45	
Bromoform	1.0 U	1.0	0.25	1	02/03/20 12:45	
Bromomethane	1.0 U	1.0	0.70	1	02/03/20 12:45	
Carbon Disulfide	1.0 U	1.0	0.25	1	02/03/20 12:45	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	02/03/20 12:45	
Chlorobenzene	1.0 U	1.0	0.20	1	02/03/20 12:45	
Chloroethane	1.0 U	1.0	0.23	1	02/03/20 12:45	
Chloroform	1.0 U	1.0	0.24	1	02/03/20 12:45	
Chloromethane	1.0 U	1.0	0.28	1	02/03/20 12:45	
Cyclohexane	1.0 U	1.0	0.26	1	02/03/20 12:45	
Dibromochloromethane	1.0 U	1.0	0.20	1	02/03/20 12:45	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	02/03/20 12:45	
Dichloromethane	1.0 U	1.0	0.36	1	02/03/20 12:45	
Ethylbenzene	1.0 U	1.0	0.20	1	02/03/20 12:45	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	02/03/20 12:45	
Methyl Acetate	2.0 U	2.0	0.33	1	02/03/20 12:45	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	02/03/20 12:45	
Methylcyclohexane	1.0 U	1.0	0.20	1	02/03/20 12:45	
Styrene	1.0 U	1.0	0.20	1	02/03/20 12:45	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/03/20 12:45	
Toluene	1.0 U	1.0	0.20	1	02/03/20 12:45	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2001045-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	02/03/20 12:45	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	02/03/20 12:45	
Vinyl Chloride	1.0 U	1.0	0.20	1	02/03/20 12:45	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	02/03/20 12:45	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	02/03/20 12:45	
m,p-Xylenes	2.0 U	2.0	0.20	1	02/03/20 12:45	
o-Xylene	1.0 U	1.0	0.20	1	02/03/20 12:45	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/03/20 12:45	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	02/03/20 12:45	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	02/03/20 12:45	
Dibromofluoromethane	92	89 - 119	02/03/20 12:45	
Toluene-d8	95	87 - 121	02/03/20 12:45	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2001093-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.21	1	02/04/20 12:36	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	02/04/20 12:36	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	02/04/20 12:36	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	02/04/20 12:36	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	02/04/20 12:36	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.25	1	02/04/20 12:36	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.20	1	02/04/20 12:36	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.25	1	02/04/20 12:36	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	02/04/20 12:36	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	02/04/20 12:36	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	02/04/20 12:36	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	02/04/20 12:36	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	02/04/20 12:36	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	02/04/20 12:36	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	02/04/20 12:36	
1,4-Dioxane	40 U	40	13	1	02/04/20 12:36	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	02/04/20 12:36	
2-Hexanone	5.0 U	5.0	0.20	1	02/04/20 12:36	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	02/04/20 12:36	
Acetone	5.0 U	5.0	2.1	1	02/04/20 12:36	
Benzene	1.0 U	1.0	0.20	1	02/04/20 12:36	
Bromochloromethane	1.0 U	1.0	0.24	1	02/04/20 12:36	
Bromodichloromethane	1.0 U	1.0	0.22	1	02/04/20 12:36	
Bromoform	1.0 U	1.0	0.25	1	02/04/20 12:36	
Bromomethane	1.0 U	1.0	0.70	1	02/04/20 12:36	
Carbon Disulfide	1.0 U	1.0	0.25	1	02/04/20 12:36	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	02/04/20 12:36	
Chlorobenzene	1.0 U	1.0	0.20	1	02/04/20 12:36	
Chloroethane	1.0 U	1.0	0.23	1	02/04/20 12:36	
Chloroform	1.0 U	1.0	0.24	1	02/04/20 12:36	
Chloromethane	1.0 U	1.0	0.28	1	02/04/20 12:36	
Cyclohexane	1.0 U	1.0	0.26	1	02/04/20 12:36	
Dibromochloromethane	1.0 U	1.0	0.20	1	02/04/20 12:36	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	02/04/20 12:36	
Dichloromethane	1.0 U	1.0	0.36	1	02/04/20 12:36	
Ethylbenzene	1.0 U	1.0	0.20	1	02/04/20 12:36	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	02/04/20 12:36	
Methyl Acetate	2.0 U	2.0	0.33	1	02/04/20 12:36	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	02/04/20 12:36	
Methylcyclohexane	1.0 U	1.0	0.20	1	02/04/20 12:36	
Styrene	1.0 U	1.0	0.20	1	02/04/20 12:36	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	02/04/20 12:36	
Toluene	1.0 U	1.0	0.20	1	02/04/20 12:36	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2001093-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	02/04/20 12:36	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	02/04/20 12:36	
Vinyl Chloride	1.0 U	1.0	0.20	1	02/04/20 12:36	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	02/04/20 12:36	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	02/04/20 12:36	
m,p-Xylenes	2.0 U	2.0	0.20	1	02/04/20 12:36	
o-Xylene	1.0 U	1.0	0.20	1	02/04/20 12:36	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	02/04/20 12:36	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	02/04/20 12:36	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	02/04/20 12:36	
Dibromofluoromethane	94	89 - 119	02/04/20 12:36	
Toluene-d8	97	87 - 121	02/04/20 12:36	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint/235.198A
Sample Matrix: Water

Service Request: R2000775
Date Analyzed: 02/03/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2001045-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	21.4	20.0	107	75-125
1,1,2,2-Tetrachloroethane	8260C	21.0	20.0	105	78-126
1,1,2-Trichloroethane	8260C	19.8	20.0	99	82-121
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	22.8	20.0	114	67-124
1,1-Dichloroethane (1,1-DCA)	8260C	21.1	20.0	106	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	22.1	20.0	110	71-118
1,2,3-Trichlorobenzene	8260C	20.0	20.0	100	67-136
1,2,4-Trichlorobenzene	8260C	20.7	20.0	104	75-132
1,2-Dibromo-3-chloropropane (DBCP)	8260C	17.9	20.0	90	55-136
1,2-Dibromoethane	8260C	19.9	20.0	99	82-127
1,2-Dichlorobenzene	8260C	20.4	20.0	102	80-119
1,2-Dichloroethane	8260C	19.6	20.0	98	71-127
1,2-Dichloropropane	8260C	20.2	20.0	101	80-119
1,3-Dichlorobenzene	8260C	21.1	20.0	105	83-121
1,4-Dichlorobenzene	8260C	20.6	20.0	103	79-119
1,4-Dioxane	8260C	393	400	98	44-154
2-Butanone (MEK)	8260C	18.0	20.0	90	61-137
2-Hexanone	8260C	18.5	20.0	92	63-124
4-Methyl-2-pentanone	8260C	18.5	20.0	92	66-124
Acetone	8260C	24.5	20.0	123	40-161
Benzene	8260C	21.2	20.0	106	79-119
Bromochloromethane	8260C	20.6	20.0	103	81-126
Bromodichloromethane	8260C	20.7	20.0	103	81-123
Bromoform	8260C	19.3	20.0	96	65-146
Bromomethane	8260C	16.9	20.0	84	42-166
Carbon Disulfide	8260C	19.7	20.0	98	66-128
Carbon Tetrachloride	8260C	19.3	20.0	96	70-127
Chlorobenzene	8260C	21.3	20.0	106	80-121
Chloroethane	8260C	20.0	20.0	100	62-131
Chloroform	8260C	20.0	20.0	100	79-120
Chloromethane	8260C	18.8	20.0	94	65-135
Cyclohexane	8260C	19.4	20.0	97	69-120
Dibromochloromethane	8260C	20.5	20.0	102	72-128

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint/235.198A
Sample Matrix: Water

Service Request: R2000775
Date Analyzed: 02/03/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2001045-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	8260C	18.1	20.0	91	59-155
Dichloromethane	8260C	18.9	20.0	94	73-122
Ethylbenzene	8260C	21.6	20.0	108	76-120
Isopropylbenzene (Cumene)	8260C	22.4	20.0	112	77-128
Methyl Acetate	8260C	19.1	20.0	96	40-112
Methyl tert-Butyl Ether	8260C	21.0	20.0	105	75-118
Methylcyclohexane	8260C	20.2	20.0	101	51-129
Styrene	8260C	20.9	20.0	104	80-124
Tetrachloroethene (PCE)	8260C	21.3	20.0	106	72-125
Toluene	8260C	21.7	20.0	109	79-119
Trichloroethene (TCE)	8260C	20.7	20.0	103	74-122
Trichlorofluoromethane (CFC 11)	8260C	22.8	20.0	114	71-136
Vinyl Chloride	8260C	18.9	20.0	94	74-159
cis-1,2-Dichloroethene	8260C	21.4	20.0	107	80-121
cis-1,3-Dichloropropene	8260C	20.0	20.0	100	77-122
m,p-Xylenes	8260C	44.2	40.0	110	80-126
o-Xylene	8260C	21.3	20.0	107	79-123
trans-1,2-Dichloroethene	8260C	21.5	20.0	108	73-118
trans-1,3-Dichloropropene	8260C	19.9	20.0	99	71-133

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint/235.198A
Sample Matrix: Water

Service Request: R2000775
Date Analyzed: 02/04/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2001093-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	22.1	20.0	110	75-125
1,1,2,2-Tetrachloroethane	8260C	22.4	20.0	112	78-126
1,1,2-Trichloroethane	8260C	20.4	20.0	102	82-121
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	22.9	20.0	114	67-124
1,1-Dichloroethane (1,1-DCA)	8260C	21.6	20.0	108	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	22.3	20.0	111	71-118
1,2,3-Trichlorobenzene	8260C	21.2	20.0	106	67-136
1,2,4-Trichlorobenzene	8260C	21.1	20.0	105	75-132
1,2-Dibromo-3-chloropropane (DBCP)	8260C	20.0	20.0	100	55-136
1,2-Dibromoethane	8260C	21.3	20.0	106	82-127
1,2-Dichlorobenzene	8260C	20.9	20.0	104	80-119
1,2-Dichloroethane	8260C	19.4	20.0	97	71-127
1,2-Dichloropropane	8260C	20.5	20.0	102	80-119
1,3-Dichlorobenzene	8260C	21.9	20.0	110	83-121
1,4-Dichlorobenzene	8260C	21.1	20.0	106	79-119
1,4-Dioxane	8260C	425	400	106	44-154
2-Butanone (MEK)	8260C	20.9	20.0	105	61-137
2-Hexanone	8260C	20.8	20.0	104	63-124
4-Methyl-2-pentanone	8260C	20.6	20.0	103	66-124
Acetone	8260C	20.1	20.0	100	40-161
Benzene	8260C	22.0	20.0	110	79-119
Bromochloromethane	8260C	21.6	20.0	108	81-126
Bromodichloromethane	8260C	21.9	20.0	110	81-123
Bromoform	8260C	21.2	20.0	106	65-146
Bromomethane	8260C	18.8	20.0	94	42-166
Carbon Disulfide	8260C	20.6	20.0	103	66-128
Carbon Tetrachloride	8260C	21.4	20.0	107	70-127
Chlorobenzene	8260C	22.2	20.0	111	80-121
Chloroethane	8260C	20.3	20.0	102	62-131
Chloroform	8260C	20.8	20.0	104	79-120
Chloromethane	8260C	21.0	20.0	105	65-135
Cyclohexane	8260C	19.6	20.0	98	69-120
Dibromochloromethane	8260C	21.7	20.0	108	72-128

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint/235.198A
Sample Matrix: Water

Service Request: R2000775
Date Analyzed: 02/04/20

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2001093-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	8260C	21.5	20.0	108	59-155
Dichloromethane	8260C	20.0	20.0	100	73-122
Ethylbenzene	8260C	21.7	20.0	109	76-120
Isopropylbenzene (Cumene)	8260C	22.9	20.0	115	77-128
Methyl Acetate	8260C	20.1	20.0	101	40-112
Methyl tert-Butyl Ether	8260C	21.8	20.0	109	75-118
Methylcyclohexane	8260C	20.4	20.0	102	51-129
Styrene	8260C	21.7	20.0	108	80-124
Tetrachloroethene (PCE)	8260C	22.5	20.0	113	72-125
Toluene	8260C	22.3	20.0	112	79-119
Trichloroethene (TCE)	8260C	21.5	20.0	107	74-122
Trichlorofluoromethane (CFC 11)	8260C	24.2	20.0	121	71-136
Vinyl Chloride	8260C	20.4	20.0	102	74-159
cis-1,2-Dichloroethene	8260C	22.0	20.0	110	80-121
cis-1,3-Dichloropropene	8260C	21.0	20.0	105	77-122
m,p-Xylenes	8260C	44.9	40.0	112	80-126
o-Xylene	8260C	21.8	20.0	109	79-123
trans-1,2-Dichloroethene	8260C	21.9	20.0	109	73-118
trans-1,3-Dichloropropene	8260C	20.8	20.0	104	71-133

Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Leader Professional Services, Inc. **Service Request:** R2000775
Project: Tonawanda Bisonite Paint/235.198A
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3510C

Sample Name	Lab Code	2,4,6-Tribromophenol 35-141	2-Fluorobiphenyl 31-118	2-Fluorophenol 10-105
MW4	R2000775-001	55	38	36
MW4 FP	R2000775-002	55	32	25
MW2	R2000775-004	82	75	31
MW5	R2000775-005	86	75	40
Equipment Blank	R2000775-006	86	72	39
MW2 DUP	R2000775-008	76	63	32
MW3	R2000775-009	99	75	25
Method Blank	RQ2000986-01	95	74	42
Method Blank	RQ2001038-03	79	68	37
Lab Control Sample	RQ2000986-02	83	76	45
Duplicate Lab Control Sample	RQ2000986-03	87	82	43
Lab Control Sample	RQ2001038-04	85	77	46
Duplicate Lab Control Sample	RQ2001038-05	74	69	38
MW2 MS	RQ2001038-01	82	72	38
MW2 DMS	RQ2001038-02	88	77	40

Client: Leader Professional Services, Inc. **Service Request:** R2000775
Project: Tonawanda Bisonite Paint/235.198A
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3510C

Sample Name	Lab Code	Nitrobenzene-d5 31-110	Phenol-d6 10-107	Terphenyl-d14 10-165
MW4	R2000775-001	102	30	15
MW4 FP	R2000775-002	1070*	26	16
MW2	R2000775-004	72	22	52
MW5	R2000775-005	70	27	53
Equipment Blank	R2000775-006	72	24	76
MW2 DUP	R2000775-008	60	21	52
MW3	R2000775-009	80	28	37
Method Blank	RQ2000986-01	75	29	86
Method Blank	RQ2001038-03	71	24	76
Lab Control Sample	RQ2000986-02	73	32	87
Duplicate Lab Control Sample	RQ2000986-03	80	32	83
Lab Control Sample	RQ2001038-04	80	31	88
Duplicate Lab Control Sample	RQ2001038-05	69	26	62
MW2 MS	RQ2001038-01	77	27	68
MW2 DMS	RQ2001038-02	80	28	72

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20
Sample Matrix:	Water	**Date Received:**	01/28/20
		Date Analyzed:	02/5/20
		Date Extracted:	02/3/20

Duplicate Matrix Spike Summary
Semivolatile Organic Compounds by GC/MS

Sample Name:	MW2	**Units:**	ug/L
Lab Code:	R2000775-004	**Basis:**	NA
Analysis Method:	8270D		
Prep Method:	EPA 3510C		

		Matrix Spike RQ2001038-01			Duplicate Matrix Spike RQ2001038-02					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,2,4,5-Tetrachlorobenzene	9.3 U	14.4	18.7	77	15.2	18.5	82	15-132	6	30
2,3,4,6-Tetrachlorophenol	9.3 U	43.7	46.7	93	44.9	46.3	97	42-136	4	30
2,4,5-Trichlorophenol	9.3 U	43.7	46.7	94	46.4	46.3	100	48-134	6	30
2,4,6-Trichlorophenol	9.3 U	43.2	46.7	93	45.9	46.3	99	44-135	6	30
2,4-Dichlorophenol	9.3 U	41.3	46.7	88	43.2	46.3	93	40-130	6	30
2,4-Dimethylphenol	9.3 U	38.2	46.7	82	39.9	46.3	86	42-121	5	30
2,4-Dinitrophenol	47 U	46.8 J	46.7	100	49.6	46.3	107	21-168	7	30
2,4-Dinitrotoluene	9.3 U	48.7	46.7	104	50.2	46.3	108	37-143	4	30
2,6-Dinitrotoluene	9.3 U	44.7	46.7	96	46.8	46.3	101	39-136	5	30
2-Chloronaphthalene	9.3 U	38.2	46.7	82	39.5	46.3	85	40-108	4	30
2-Chlorophenol	9.3 U	32.8	46.7	70	34.3	46.3	74	37-112	6	30
2-Methylnaphthalene	9.3 U	37.8	46.7	81	38.7	46.3	84	34-102	4	30
2-Methylphenol	9.3 U	29.3	46.7	63	30.2	46.3	65	37-102	3	30
2-Nitroaniline	47 U	48.1	46.7	103	49.1	46.3	106	40-136	3	30
2-Nitrophenol	9.3 U	43.5	46.7	93	45.3	46.3	98	27-143	5	30
3,3'-Dichlorobenzidine	9.3 U	32.6	46.7	70	33.6	46.3	73	11-131	4	30
3- and 4-Methylphenol Coelution	9.3 U	25.6	46.7	55	26.4	46.3	57	30-95	4	30
3-Nitroaniline	47 U	35.8 J	46.7	77	36.6 J	46.3	79	19-117	3	30
4,6-Dinitro-2-methylphenol	47 U	47.8	46.7	102	50.2	46.3	108	25-154	6	30
4-Bromophenyl Phenyl Ether	9.3 U	36.6	46.7	78	37.1	46.3	80	39-115	3	30
4-Chloro-3-methylphenol	9.3 U	42.8	46.7	92	44.3	46.3	96	41-126	4	30
4-Chloroaniline	9.3 U	37.0	46.7	79	37.4	46.3	81	19-111	3	30
4-Chlorophenyl Phenyl Ether	9.3 U	33.5	46.7	72	34.3	46.3	74	41-111	3	30
4-Nitroaniline	47 U	43.7 J	46.7	93	45.6 J	46.3	98	18-143	5	30
4-Nitrophenol	47 U	20.0 J	46.7	43	21.3 J	46.3	46	10-126	7	30
Acenaphthene	9.3 U	39.3	46.7	84	40.5	46.3	88	43-117	5	30
Acenaphthylene	9.3 U	41.0	46.7	88	42.2	46.3	91	45-119	3	30
Acetophenone	9.3 U	70.0	93.5	75	72.1	92.6	78	40-113	4	30
Anthracene	9.3 U	40.5	46.7	87	40.9	46.3	88	45-127	1	30
Atrazine	9.3 U	51.5 E	46.7	110	53.7 E	46.3	116	50-165	5	30
Benz(a)anthracene	9.3 U	38.7	46.7	83	39.6	46.3	85	46-126	2	30
Benzaldehyde	47 U	34.4 J	46.7	74	35.3 J	46.3	76	32-133	3	30
Benzo(a)pyrene	9.3 U	43.6	46.7	93	44.3	46.3	96	44-114	3	30
Benzo(b)fluoranthene	9.3 U	40.7	46.7	87	41.3	46.3	89	41-127	2	30
Benzo(g,h,i)perylene	9.3 U	44.4	46.7	95	45.4	46.3	98	50-143	3	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20
Sample Matrix:	Water	**Date Received:**	01/28/20
		Date Analyzed:	02/5/20
		Date Extracted:	02/3/20

Duplicate Matrix Spike Summary
Semivolatile Organic Compounds by GC/MS

Sample Name:	MW2	**Units:**	ug/L
Lab Code:	R2000775-004	**Basis:**	NA
Analysis Method:	8270D		
Prep Method:	EPA 3510C		

		Matrix Spike RQ2001038-01			Duplicate Matrix Spike RQ2001038-02					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Benzo(k)fluoranthene	9.3 U	44.5	46.7	95	44.8	46.3	97	46-139	2	30
Biphenyl	9.3 U	36.8	46.7	79	38.2	46.3	83	10-126	5	30
2,2'-Oxybis(1-chloropropane)	9.3 U	30.3	46.7	65	30.8	46.3	67	21-126	3	30
Bis(2-chloroethoxy)methane	9.3 U	37.7	46.7	81	38.4	46.3	83	41-118	2	30
Bis(2-chloroethyl) Ether	9.3 U	32.3	46.7	69	32.9	46.3	71	33-108	3	30
Bis(2-ethylhexyl) Phthalate	9.7 U	51.4	46.7	110	52.4	46.3	113	41-132	3	30
Butyl Benzyl Phthalate	9.3 U	51.3	46.7	110	52.0	46.3	112	41-148	2	30
Caprolactam	9.3 U	12.7	46.7	27	13.6	46.3	29	10-48	7	30
Carbazole	9.3 U	44.2	46.7	95	44.8	46.3	97	39-144	2	30
Chrysene	9.3 U	40.5	46.7	87	40.9	46.3	88	47-126	1	30
Di-n-butyl Phthalate	9.3 U	43.5	46.7	93	43.0	46.3	93	43-130	<1	30
Di-n-octyl Phthalate	9.3 U	50.2	46.7	107	51.8	46.3	112	40-139	5	30
Dibenz(a,h)anthracene	9.3 U	25.8	46.7	55	26.1	46.3	56	43-136	2	30
Dibenzofuran	9.3 U	39.6	46.7	85	40.6	46.3	88	46-119	3	30
Diethyl Phthalate	9.3 U	40.4	46.7	86	41.2	46.3	89	36-122	3	30
Dimethyl Phthalate	9.3 U	39.0	46.7	83	40.8	46.3	88	33-123	6	30
Fluoranthene	9.3 U	40.8	46.7	87	40.5	46.3	87	43-135	<1	30
Fluorene	9.3 U	37.6	46.7	80	38.6	46.3	83	43-113	4	30
Hexachlorobenzene	9.3 U	40.8	46.7	87	41.3	46.3	89	42-125	2	30
Hexachlorobutadiene	9.3 U	32.3	46.7	69	34.4	46.3	74	10-111	7	30
Hexachlorocyclopentadiene	9.3 U	27.2	46.7	58	29.9	46.3	64	10-103	10	30
Hexachloroethane	9.3 U	26.5	46.7	57	29.0	46.3	63	12-101	10	30
Indeno(1,2,3-cd)pyrene	9.3 U	43.3	46.7	93	43.1	46.3	93	49-140	<1	30
Isophorone	9.3 U	34.8	46.7	74	35.0	46.3	76	40-111	3	30
N-Nitrosodi-n-propylamine	9.3 U	39.3	46.7	84	39.9	46.3	86	35-108	2	30
N-Nitrosodiphenylamine	9.3 U	48.1	46.7	103	48.7	46.3	105	43-127	2	30
Naphthalene	9.3 U	35.2	46.7	75	35.9	46.3	77	37-108	3	30
Nitrobenzene	9.3 U	36.7	46.7	79	37.8	46.3	82	35-112	4	30
Pentachlorophenol (PCP)	47 U	52.7	46.7	113	53.1	46.3	115	29-164	2	30
Phenanthrene	9.3 U	40.5	46.7	87	40.8	46.3	88	46-123	1	30
Phenol	9.3 U	16.6	46.7	36	16.8	46.3	36	10-113	<1	30
Pyrene	9.3 U	46.1	46.7	99	47.5	46.3	103	44-129	4	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2000986-01	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	10 U	10	1.0	1	02/05/20 10:34	1/31/20	
2,3,4,6-Tetrachlorophenol	10 U	10	1.0	1	02/05/20 10:34	1/31/20	
2,4,5-Trichlorophenol	10 U	10	1.1	1	02/05/20 10:34	1/31/20	
2,4,6-Trichlorophenol	10 U	10	1.0	1	02/05/20 10:34	1/31/20	
2,4-Dichlorophenol	10 U	10	1.0	1	02/05/20 10:34	1/31/20	
2,4-Dimethylphenol	10 U	10	1.0	1	02/05/20 10:34	1/31/20	
2,4-Dinitrophenol	50 U	50	7.0	1	02/05/20 10:34	1/31/20	
2,4-Dinitrotoluene	10 U	10	2.7	1	02/05/20 10:34	1/31/20	
2,6-Dinitrotoluene	10 U	10	1.5	1	02/05/20 10:34	1/31/20	
2-Chloronaphthalene	10 U	10	1.1	1	02/05/20 10:34	1/31/20	
2-Chlorophenol	10 U	10	1.0	1	02/05/20 10:34	1/31/20	
2-Methylnaphthalene	10 U	10	1.0	1	02/05/20 10:34	1/31/20	
2-Methylphenol	10 U	10	1.0	1	02/05/20 10:34	1/31/20	
2-Nitroaniline	50 U	50	2.4	1	02/05/20 10:34	1/31/20	
2-Nitrophenol	10 U	10	1.5	1	02/05/20 10:34	1/31/20	
3,3'-Dichlorobenzidine	10 U	10	1.0	1	02/05/20 10:34	1/31/20	
3- and 4-Methylphenol Coelution	10 U	10	1.0	1	02/05/20 10:34	1/31/20	
3-Nitroaniline	50 U	50	1.8	1	02/05/20 10:34	1/31/20	
4,6-Dinitro-2-methylphenol	50 U	50	3.7	1	02/05/20 10:34	1/31/20	
4-Bromophenyl Phenyl Ether	10 U	10	1.4	1	02/05/20 10:34	1/31/20	
4-Chloro-3-methylphenol	10 U	10	1.1	1	02/05/20 10:34	1/31/20	
4-Chloroaniline	10 U	10	1.0	1	02/05/20 10:34	1/31/20	
4-Chlorophenyl Phenyl Ether	10 U	10	1.2	1	02/05/20 10:34	1/31/20	
4-Nitroaniline	50 U	50	1.9	1	02/05/20 10:34	1/31/20	
4-Nitrophenol	50 U	50	3.0	1	02/05/20 10:34	1/31/20	
Acenaphthene	10 U	10	1.6	1	02/05/20 10:34	1/31/20	
Acenaphthylene	10 U	10	1.3	1	02/05/20 10:34	1/31/20	
Acetophenone	10 U	10	1.3	1	02/05/20 10:34	1/31/20	
Anthracene	10 U	10	1.4	1	02/05/20 10:34	1/31/20	
Atrazine	10 U	10	1.3	1	02/05/20 10:34	1/31/20	
Benz(a)anthracene	10 U	10	1.0	1	02/05/20 10:34	1/31/20	
Benzaldehyde	50 U	50	1.1	1	02/05/20 10:34	1/31/20	
Benzo(a)pyrene	10 U	10	1.3	1	02/05/20 10:34	1/31/20	
Benzo(b)fluoranthene	10 U	10	1.3	1	02/05/20 10:34	1/31/20	
Benzo(g,h,i)perylene	10 U	10	1.5	1	02/05/20 10:34	1/31/20	
Benzo(k)fluoranthene	10 U	10	1.5	1	02/05/20 10:34	1/31/20	
Biphenyl	10 U	10	1.9	1	02/05/20 10:34	1/31/20	
2,2'-Oxybis(1-chloropropane)	10 U	10	1.4	1	02/05/20 10:34	1/31/20	
Bis(2-chloroethoxy)methane	10 U	10	1.0	1	02/05/20 10:34	1/31/20	
Bis(2-chloroethyl) Ether	10 U	10	1.0	1	02/05/20 10:34	1/31/20	
Bis(2-ethylhexyl) Phthalate	10 U	10	9.7	1	02/05/20 10:34	1/31/20	
Butyl Benzyl Phthalate	10 U	10	1.0	1	02/05/20 10:34	1/31/20	
Caprolactam	10 U	10	1.0	1	02/05/20 10:34	1/31/20	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2000986-01	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	10 U	10	1.3	1	02/05/20 10:34	1/31/20	
Chrysene	10 U	10	1.5	1	02/05/20 10:34	1/31/20	
Di-n-butyl Phthalate	10 U	10	1.1	1	02/05/20 10:34	1/31/20	
Di-n-octyl Phthalate	10 U	10	1.8	1	02/05/20 10:34	1/31/20	
Dibenz(a,h)anthracene	10 U	10	1.4	1	02/05/20 10:34	1/31/20	
Dibenzofuran	10 U	10	1.3	1	02/05/20 10:34	1/31/20	
Diethyl Phthalate	10 U	10	1.2	1	02/05/20 10:34	1/31/20	
Dimethyl Phthalate	10 U	10	1.5	1	02/05/20 10:34	1/31/20	
Fluoranthene	10 U	10	1.4	1	02/05/20 10:34	1/31/20	
Fluorene	10 U	10	1.6	1	02/05/20 10:34	1/31/20	
Hexachlorobenzene	10 U	10	1.4	1	02/05/20 10:34	1/31/20	
Hexachlorobutadiene	10 U	10	1.1	1	02/05/20 10:34	1/31/20	
Hexachlorocyclopentadiene	10 U	10	1.5	1	02/05/20 10:34	1/31/20	
Hexachloroethane	10 U	10	1.2	1	02/05/20 10:34	1/31/20	
Indeno(1,2,3-cd)pyrene	10 U	10	1.4	1	02/05/20 10:34	1/31/20	
Isophorone	10 U	10	1.2	1	02/05/20 10:34	1/31/20	
N-Nitrosodi-n-propylamine	10 U	10	2.0	1	02/05/20 10:34	1/31/20	
N-Nitrosodiphenylamine	10 U	10	4.7	1	02/05/20 10:34	1/31/20	
Naphthalene	10 U	10	1.1	1	02/05/20 10:34	1/31/20	
Nitrobenzene	10 U	10	1.0	1	02/05/20 10:34	1/31/20	
Pentachlorophenol (PCP)	50 U	50	6.0	1	02/05/20 10:34	1/31/20	
Phenanthrene	10 U	10	1.6	1	02/05/20 10:34	1/31/20	
Phenol	10 U	10	3.0	1	02/05/20 10:34	1/31/20	
Pyrene	10 U	10	1.8	1	02/05/20 10:34	1/31/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	95	35 - 141	02/05/20 10:34	
2-Fluorobiphenyl	74	31 - 118	02/05/20 10:34	
2-Fluorophenol	42	10 - 105	02/05/20 10:34	
Nitrobenzene-d5	75	31 - 110	02/05/20 10:34	
Phenol-d6	29	10 - 107	02/05/20 10:34	
Terphenyl-d14	86	10 - 165	02/05/20 10:34	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	2.21	5.2	J
	unknown	2.28	190	J

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2001038-03	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	10 U	10	1.0	1	02/05/20 11:15	2/3/20	
2,3,4,6-Tetrachlorophenol	10 U	10	1.0	1	02/05/20 11:15	2/3/20	
2,4,5-Trichlorophenol	10 U	10	1.1	1	02/05/20 11:15	2/3/20	
2,4,6-Trichlorophenol	10 U	10	1.0	1	02/05/20 11:15	2/3/20	
2,4-Dichlorophenol	10 U	10	1.0	1	02/05/20 11:15	2/3/20	
2,4-Dimethylphenol	10 U	10	1.0	1	02/05/20 11:15	2/3/20	
2,4-Dinitrophenol	50 U	50	7.0	1	02/05/20 11:15	2/3/20	
2,4-Dinitrotoluene	10 U	10	2.7	1	02/05/20 11:15	2/3/20	
2,6-Dinitrotoluene	10 U	10	1.5	1	02/05/20 11:15	2/3/20	
2-Chloronaphthalene	10 U	10	1.1	1	02/05/20 11:15	2/3/20	
2-Chlorophenol	10 U	10	1.0	1	02/05/20 11:15	2/3/20	
2-Methylnaphthalene	10 U	10	1.0	1	02/05/20 11:15	2/3/20	
2-Methylphenol	10 U	10	1.0	1	02/05/20 11:15	2/3/20	
2-Nitroaniline	50 U	50	2.4	1	02/05/20 11:15	2/3/20	
2-Nitrophenol	10 U	10	1.5	1	02/05/20 11:15	2/3/20	
3,3'-Dichlorobenzidine	10 U	10	1.0	1	02/05/20 11:15	2/3/20	
3- and 4-Methylphenol Coelution	10 U	10	1.0	1	02/05/20 11:15	2/3/20	
3-Nitroaniline	50 U	50	1.8	1	02/05/20 11:15	2/3/20	
4,6-Dinitro-2-methylphenol	50 U	50	3.7	1	02/05/20 11:15	2/3/20	
4-Bromophenyl Phenyl Ether	10 U	10	1.4	1	02/05/20 11:15	2/3/20	
4-Chloro-3-methylphenol	10 U	10	1.1	1	02/05/20 11:15	2/3/20	
4-Chloroaniline	10 U	10	1.0	1	02/05/20 11:15	2/3/20	
4-Chlorophenyl Phenyl Ether	10 U	10	1.2	1	02/05/20 11:15	2/3/20	
4-Nitroaniline	50 U	50	1.9	1	02/05/20 11:15	2/3/20	
4-Nitrophenol	50 U	50	3.0	1	02/05/20 11:15	2/3/20	
Acenaphthene	10 U	10	1.6	1	02/05/20 11:15	2/3/20	
Acenaphthylene	10 U	10	1.3	1	02/05/20 11:15	2/3/20	
Acetophenone	10 U	10	1.3	1	02/05/20 11:15	2/3/20	
Anthracene	10 U	10	1.4	1	02/05/20 11:15	2/3/20	
Atrazine	10 U	10	1.3	1	02/05/20 11:15	2/3/20	
Benz(a)anthracene	10 U	10	1.0	1	02/05/20 11:15	2/3/20	
Benzaldehyde	50 U	50	1.1	1	02/05/20 11:15	2/3/20	
Benzo(a)pyrene	10 U	10	1.3	1	02/05/20 11:15	2/3/20	
Benzo(b)fluoranthene	10 U	10	1.3	1	02/05/20 11:15	2/3/20	
Benzo(g,h,i)perylene	10 U	10	1.5	1	02/05/20 11:15	2/3/20	
Benzo(k)fluoranthene	10 U	10	1.5	1	02/05/20 11:15	2/3/20	
Biphenyl	10 U	10	1.9	1	02/05/20 11:15	2/3/20	
2,2'-Oxybis(1-chloropropane)	10 U	10	1.4	1	02/05/20 11:15	2/3/20	
Bis(2-chloroethoxy)methane	10 U	10	1.0	1	02/05/20 11:15	2/3/20	
Bis(2-chloroethyl) Ether	10 U	10	1.0	1	02/05/20 11:15	2/3/20	
Bis(2-ethylhexyl) Phthalate	10 U	10	9.7	1	02/05/20 11:15	2/3/20	
Butyl Benzyl Phthalate	10 U	10	1.0	1	02/05/20 11:15	2/3/20	
Caprolactam	10 U	10	1.0	1	02/05/20 11:15	2/3/20	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2001038-03	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	10 U	10	1.3	1	02/05/20 11:15	2/3/20	
Chrysene	10 U	10	1.5	1	02/05/20 11:15	2/3/20	
Di-n-butyl Phthalate	10 U	10	1.1	1	02/05/20 11:15	2/3/20	
Di-n-octyl Phthalate	10 U	10	1.8	1	02/05/20 11:15	2/3/20	
Dibenz(a,h)anthracene	10 U	10	1.4	1	02/05/20 11:15	2/3/20	
Dibenzofuran	10 U	10	1.3	1	02/05/20 11:15	2/3/20	
Diethyl Phthalate	10 U	10	1.2	1	02/05/20 11:15	2/3/20	
Dimethyl Phthalate	10 U	10	1.5	1	02/05/20 11:15	2/3/20	
Fluoranthene	10 U	10	1.4	1	02/05/20 11:15	2/3/20	
Fluorene	10 U	10	1.6	1	02/05/20 11:15	2/3/20	
Hexachlorobenzene	10 U	10	1.4	1	02/05/20 11:15	2/3/20	
Hexachlorobutadiene	10 U	10	1.1	1	02/05/20 11:15	2/3/20	
Hexachlorocyclopentadiene	10 U	10	1.5	1	02/05/20 11:15	2/3/20	
Hexachloroethane	10 U	10	1.2	1	02/05/20 11:15	2/3/20	
Indeno(1,2,3-cd)pyrene	10 U	10	1.4	1	02/05/20 11:15	2/3/20	
Isophorone	10 U	10	1.2	1	02/05/20 11:15	2/3/20	
N-Nitrosodi-n-propylamine	10 U	10	2.0	1	02/05/20 11:15	2/3/20	
N-Nitrosodiphenylamine	10 U	10	4.7	1	02/05/20 11:15	2/3/20	
Naphthalene	10 U	10	1.1	1	02/05/20 11:15	2/3/20	
Nitrobenzene	10 U	10	1.0	1	02/05/20 11:15	2/3/20	
Pentachlorophenol (PCP)	50 U	50	6.0	1	02/05/20 11:15	2/3/20	
Phenanthrene	10 U	10	1.6	1	02/05/20 11:15	2/3/20	
Phenol	10 U	10	3.0	1	02/05/20 11:15	2/3/20	
Pyrene	10 U	10	1.8	1	02/05/20 11:15	2/3/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	79	35 - 141	02/05/20 11:15	
2-Fluorobiphenyl	68	31 - 118	02/05/20 11:15	
2-Fluorophenol	37	10 - 105	02/05/20 11:15	
Nitrobenzene-d5	71	31 - 110	02/05/20 11:15	
Phenol-d6	24	10 - 107	02/05/20 11:15	
Terphenyl-d14	76	10 - 165	02/05/20 11:15	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

Client: Leader Professional Services, Inc. **Service Request:** R2000775
Project: Tonawanda Bisonite Paint/235.198A **Date Analyzed:** 02/03/20
Sample Matrix: Water

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2000986-02			RQ2000986-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,2,4,5-Tetrachlorobenzene	8270D	44.7	50.2	89	47.2	50.2	94	15-132	5	30
2,3,4,6-Tetrachlorophenol	8270D	46.2	50.0	92	47.1	50.0	94	42-136	2	30
2,4,5-Trichlorophenol	8270D	48.0	50.0	96	47.8	50.0	96	48-134	<1	30
2,4,6-Trichlorophenol	8270D	48.1	50.0	96	48.8	50.0	98	44-135	2	30
2,4-Dichlorophenol	8270D	44.6	50.0	89	43.6	50.0	87	48-127	2	30
2,4-Dimethylphenol	8270D	43.5	50.0	87	42.3	50.0	85	59-113	2	30
2,4-Dinitrophenol	8270D	46.6 J	50.0	93	47.7 J	50.0	95	21-154	2	30
2,4-Dinitrotoluene	8270D	50.0	50.0	100	50.5	50.0	101	54-130	<1	30
2,6-Dinitrotoluene	8270D	49.4	50.0	99	51.2	50.0	102	51-127	3	30
2-Chloronaphthalene	8270D	42.6	50.0	85	44.8	50.0	90	40-108	6	30
2-Chlorophenol	8270D	40.2	50.0	80	37.5	50.0	75	42-112	6	30
2-Methylnaphthalene	8270D	41.2	50.0	82	41.3	50.0	83	34-102	1	30
2-Methylphenol	8270D	39.0	50.0	78	35.6	50.0	71	47-100	9	30
2-Nitroaniline	8270D	48.6 J	50.0	97	50.3	50.0	101	52-133	4	30
2-Nitrophenol	8270D	46.0	50.0	92	48.3	50.0	97	43-131	5	30
3,3'-Dichlorobenzidine	8270D	42.4	50.0	85	46.6	50.0	93	43-126	9	30
3- and 4-Methylphenol Coelution	8270D	35.5	50.0	71	31.9	50.0	64	40-92	10	30
3-Nitroaniline	8270D	41.0 J	50.0	82	41.3 J	50.0	83	42-111	1	30
4,6-Dinitro-2-methylphenol	8270D	47.6 J	50.0	95	49.2 J	50.0	98	36-152	3	30
4-Bromophenyl Phenyl Ether	8270D	39.2	50.0	78	41.7	50.0	83	48-114	6	30
4-Chloro-3-methylphenol	8270D	45.2	50.0	90	41.9	50.0	84	52-113	7	30
4-Chloroaniline	8270D	38.4	50.0	77	38.6	50.0	77	44-109	<1	30
4-Chlorophenyl Phenyl Ether	8270D	38.8	50.0	78	41.9	50.0	84	51-107	7	30
4-Nitroaniline	8270D	47.6 J	50.0	95	49.5 J	50.0	99	54-133	4	30
4-Nitrophenol	8270D	20.6 J	50.0	41	19.7 J	50.0	39	10-126	5	30
Acenaphthene	8270D	46.9	50.0	94	48.2	50.0	96	52-107	2	30
Acenaphthylene	8270D	49.7	50.0	99	51.4	50.0	103	55-109	4	30
Acetophenone	8270D	90.7	100	91	93.8	100	94	46-114	3	30
Anthracene	8270D	47.3	50.0	95	50.1	50.0	100	55-116	5	30
Atrazine	8270D	58.2 E	50.0	116	60.0 E	50.0	120	61-164	3	30
Benz(a)anthracene	8270D	45.1	50.0	90	46.7	50.0	93	61-121	3	30
Benzaldehyde	8270D	42.5 J	50.0	85	43.7 J	50.0	87	45-132	2	30
Benzo(a)pyrene	8270D	52.0	50.0	104	54.2	50.0	108	44-114	4	30

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint/235.198A
Sample Matrix: Water

Service Request: R2000775
Date Analyzed: 02/03/20

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2000986-02			RQ2000986-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Benzo(b)fluoranthene	8270D	46.8	50.0	94	49.2	50.0	98	62-115	4	30
Benzo(g,h,i)perylene	8270D	48.9	50.0	98	52.9	50.0	106	63-136	8	30
Benzo(k)fluoranthene	8270D	50.0	50.0	100	51.1	50.0	102	49-133	2	30
Biphenyl	8270D	44.6	50.0	89	46.1	50.0	92	39-106	3	30
2,2'-Oxybis(1-chloropropane)	8270D	36.9	50.0	74	38.5	50.0	77	32-122	4	30
Bis(2-chloroethoxy)methane	8270D	41.9	50.0	84	44.1	50.0	88	55-110	5	30
Bis(2-chloroethyl) Ether	8270D	39.8	50.0	80	40.2	50.0	80	46-102	<1	30
Bis(2-ethylhexyl) Phthalate	8270D	49.3	50.0	99	51.7	50.0	103	51-132	4	30
Butyl Benzyl Phthalate	8270D	47.6	50.0	95	49.4	50.0	99	41-148	4	30
Caprolactam	8270D	14.3	50.0	29	15.6	50.0	31	10-41	7	30
Carbazole	8270D	51.5	50.0	103	54.4	50.0	109	56-139	6	30
Chrysene	8270D	46.7	50.0	93	48.2	50.0	96	57-118	3	30
Di-n-butyl Phthalate	8270D	52.2	50.0	104	54.0	50.0	108	57-128	4	30
Di-n-octyl Phthalate	8270D	49.2	50.0	98	49.5	50.0	99	62-124	1	30
Dibenz(a,h)anthracene	8270D	37.0	50.0	74	39.5	50.0	79	54-135	7	30
Dibenzofuran	8270D	48.3	50.0	97	48.9	50.0	98	55-110	1	30
Diethyl Phthalate	8270D	46.2	50.0	92	48.7	50.0	97	53-113	5	30
Dimethyl Phthalate	8270D	44.2	50.0	88	46.1	50.0	92	51-112	4	30
Fluoranthene	8270D	48.3	50.0	97	50.2	50.0	100	66-127	3	30
Fluorene	8270D	45.0	50.0	90	46.6	50.0	93	54-106	3	30
Hexachlorobenzene	8270D	44.0	50.0	88	47.5	50.0	95	53-123	8	30
Hexachlorobutadiene	8270D	35.5	50.0	71	37.5	50.0	75	16-95	5	30
Hexachlorocyclopentadiene	8270D	29.8	50.0	60	28.8	50.0	58	10-99	3	30
Hexachloroethane	8270D	31.2	50.0	62	31.8	50.0	64	15-92	3	30
Indeno(1,2,3-cd)pyrene	8270D	48.5	50.0	97	50.3	50.0	101	62-137	4	30
Isophorone	8270D	36.8	50.0	74	38.9	50.0	78	50-116	5	30
N-Nitrosodi-n-propylamine	8270D	47.7	50.0	95	49.5	50.0	99	49-115	4	30
N-Nitrosodiphenylamine	8270D	51.1	50.0	102	53.4	50.0	107	45-123	5	30
Naphthalene	8270D	39.1	50.0	78	40.5	50.0	81	38-99	4	30
Nitrobenzene	8270D	39.3	50.0	79	41.3	50.0	83	46-108	5	30
Pentachlorophenol (PCP)	8270D	46.3 J	50.0	93	45.2 J	50.0	90	29-164	3	30
Phenanthrene	8270D	47.2	50.0	94	50.1	50.0	100	58-118	6	30
Phenol	8270D	19.7	50.0	39	19.2	50.0	38	10-113	3	30

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint/235.198A
Sample Matrix: Water

Service Request: R2000775
Date Analyzed: 02/03/20

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2000986-02			RQ2000986-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Pyrene	8270D	49.8	50.0	100	52.4	50.0	105	61-122	5	30

Client: Leader Professional Services, Inc. **Service Request:** R2000775
Project: Tonawanda Bisonite Paint/235.198A **Date Analyzed:** 02/05/20
Sample Matrix: Water

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2001038-04			RQ2001038-05					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,2,4,5-Tetrachlorobenzene	8270D	16.8	20.0	84	14.8	20.0	74	15-132	13	30
2,3,4,6-Tetrachlorophenol	8270D	48.7	50.0	97	42.6	50.0	85	42-136	13	30
2,4,5-Trichlorophenol	8270D	50.8	50.0	102	41.8	50.0	84	48-134	19	30
2,4,6-Trichlorophenol	8270D	49.9	50.0	100	43.4	50.0	87	44-135	14	30
2,4-Dichlorophenol	8270D	47.6	50.0	95	39.7	50.0	79	48-127	18	30
2,4-Dimethylphenol	8270D	45.9	50.0	92	37.1	50.0	74	59-113	22	30
2,4-Dinitrophenol	8270D	44.4 J	50.0	89	38.3 J	50.0	77	21-154	14	30
2,4-Dinitrotoluene	8270D	51.1	50.0	102	44.7	50.0	89	54-130	14	30
2,6-Dinitrotoluene	8270D	47.5	50.0	95	42.3	50.0	85	51-127	11	30
2-Chloronaphthalene	8270D	43.2	50.0	86	38.0	50.0	76	40-108	12	30
2-Chlorophenol	8270D	40.5	50.0	81	33.0	50.0	66	42-112	20	30
2-Methylnaphthalene	8270D	40.8	50.0	82	36.0	50.0	72	34-102	13	30
2-Methylphenol	8270D	36.2	50.0	72	28.3	50.0	57	47-100	23	30
2-Nitroaniline	8270D	51.8	50.0	104	46.2 J	50.0	92	52-133	12	30
2-Nitrophenol	8270D	49.4	50.0	99	42.1	50.0	84	43-131	16	30
3,3'-Dichlorobenzidine	8270D	40.8	50.0	82	38.9	50.0	78	43-126	5	30
3- and 4-Methylphenol Coelution	8270D	31.5	50.0	63	24.9	50.0	50	40-92	23	30
3-Nitroaniline	8270D	40.7 J	50.0	81	34.7 J	50.0	69	42-111	16	30
4,6-Dinitro-2-methylphenol	8270D	50.1	50.0	100	45.0 J	50.0	90	36-152	11	30
4-Bromophenyl Phenyl Ether	8270D	39.8	50.0	80	36.1	50.0	72	48-114	11	30
4-Chloro-3-methylphenol	8270D	48.7	50.0	97	38.6	50.0	77	52-113	23	30
4-Chloroaniline	8270D	41.9	50.0	84	34.7	50.0	69	44-109	20	30
4-Chlorophenyl Phenyl Ether	8270D	36.8	50.0	74	34.4	50.0	69	51-107	7	30
4-Nitroaniline	8270D	45.6 J	50.0	91	40.7 J	50.0	81	54-133	12	30
4-Nitrophenol	8270D	21.7 J	50.0	43	17.6 J	50.0	35	10-126	21	30
Acenaphthene	8270D	43.6	50.0	87	39.8	50.0	80	52-107	8	30
Acenaphthylene	8270D	45.8	50.0	92	43.4	50.0	87	55-109	6	30
Acetophenone	8270D	75.6	100	76	68.6	100	69	46-114	10	30
Anthracene	8270D	45.0	50.0	90	42.1	50.0	84	55-116	7	30
Atrazine	8270D	55.9 E	50.0	112	49.6	50.0	99	61-164	12	30
Benz(a)anthracene	8270D	43.1	50.0	86	39.0	50.0	78	61-121	10	30
Benzaldehyde	8270D	38.2 J	50.0	76	33.4 J	50.0	67	45-132	13	30
Benzo(a)pyrene	8270D	48.7	50.0	97	42.7	50.0	85	44-114	13	30

Client: Leader Professional Services, Inc. **Service Request:** R2000775
Project: Tonawanda Bisonite Paint/235.198A **Date Analyzed:** 02/05/20
Sample Matrix: Water

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2001038-04			RQ2001038-05					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Benzo(b)fluoranthene	8270D	44.1	50.0	88	37.7	50.0	75	62-115	16	30
Benzo(g,h,i)perylene	8270D	50.9	50.0	102	48.4	50.0	97	63-136	5	30
Benzo(k)fluoranthene	8270D	48.7	50.0	97	41.0	50.0	82	49-133	17	30
Biphenyl	8270D	42.4	50.0	85	37.3	50.0	75	39-106	13	30
2,2'-Oxybis(1-chloropropane)	8270D	33.7	50.0	67	30.0	50.0	60	32-122	11	30
Bis(2-chloroethoxy)methane	8270D	40.4	50.0	81	36.0	50.0	72	55-110	12	30
Bis(2-chloroethyl) Ether	8270D	35.4	50.0	71	31.3	50.0	63	46-102	12	30
Bis(2-ethylhexyl) Phthalate	8270D	55.6	50.0	111	45.9	50.0	92	51-132	19	30
Butyl Benzyl Phthalate	8270D	55.6	50.0	111	45.6	50.0	91	41-148	20	30
Caprolactam	8270D	13.8	50.0	28	11.6	50.0	23	10-41	20	30
Carbazole	8270D	47.7	50.0	95	46.0	50.0	92	56-139	3	30
Chrysene	8270D	44.6	50.0	89	41.2	50.0	82	57-118	8	30
Di-n-butyl Phthalate	8270D	48.3	50.0	97	47.6	50.0	95	57-128	2	30
Di-n-octyl Phthalate	8270D	53.7	50.0	107	37.5	50.0	75	62-124	35*	30
Dibenz(a,h)anthracene	8270D	29.5	50.0	59	28.2	50.0	56	54-135	5	30
Dibenzofuran	8270D	44.3	50.0	89	41.3	50.0	83	55-110	7	30
Diethyl Phthalate	8270D	43.5	50.0	87	37.9	50.0	76	53-113	13	30
Dimethyl Phthalate	8270D	42.6	50.0	85	37.9	50.0	76	51-112	11	30
Fluoranthene	8270D	43.9	50.0	88	43.3	50.0	87	66-127	1	30
Fluorene	8270D	41.3	50.0	83	39.2	50.0	78	54-106	6	30
Hexachlorobenzene	8270D	44.1	50.0	88	40.2	50.0	80	53-123	10	30
Hexachlorobutadiene	8270D	40.0	50.0	80	34.8	50.0	70	16-95	13	30
Hexachlorocyclopentadiene	8270D	32.5	50.0	65	26.3	50.0	53	10-99	20	30
Hexachloroethane	8270D	34.5	50.0	69	29.8	50.0	60	15-92	14	30
Indeno(1,2,3-cd)pyrene	8270D	48.4	50.0	97	46.9	50.0	94	62-137	3	30
Isophorone	8270D	37.1	50.0	74	32.5	50.0	65	50-116	13	30
N-Nitrosodi-n-propylamine	8270D	41.9	50.0	84	36.8	50.0	74	49-115	13	30
N-Nitrosodiphenylamine	8270D	54.2	50.0	108	47.2	50.0	94	45-123	14	30
Naphthalene	8270D	39.5	50.0	79	35.8	50.0	72	38-99	9	30
Nitrobenzene	8270D	40.9	50.0	82	35.5	50.0	71	46-108	14	30
Pentachlorophenol (PCP)	8270D	48.9 J	50.0	98	42.1 J	50.0	84	29-164	15	30
Phenanthrene	8270D	44.3	50.0	89	41.8	50.0	84	58-118	6	30
Phenol	8270D	20.4	50.0	41	16.8	50.0	34	10-113	19	30

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint/235.198A
Sample Matrix: Water

Service Request: R2000775
Date Analyzed: 02/05/20

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2001038-04			RQ2001038-05					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Pyrene	8270D	51.3	50.0	103	40.7	50.0	81	61-122	24	30

Client: Leader Professional Services, Inc. **Service Request:** R2000775
Project: Tonawanda Bisonite Paint/235.198A
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
1,4-Dioxane by GC/MS

Analysis Method: 8270D SIM
Extraction Method: EPA 3535A

Sample Name	Lab Code	1,4-Dioxane-d8 64-124
MW2	R2000775-004	89
Equipment Blank	R2000775-006	91
MW2 DUP	R2000775-008	93
Method Blank	RQ2001037-01	83
Lab Control Sample	RQ2001037-02	80
Duplicate Lab Control Sample	RQ2001037-03	97
MW2 MS	RQ2001037-04	94
MW2 DMS	RQ2001037-05	88

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20
Sample Matrix:	Water	**Date Received:**	01/28/20
		Date Analyzed:	02/3/20
		Date Extracted:	02/3/20

Duplicate Matrix Spike Summary
1,4-Dioxane by GC/MS

Sample Name:	MW2	**Units:**	ug/L
Lab Code:	R2000775-004	**Basis:**	NA
Analysis Method:	8270D SIM		
Prep Method:	EPA 3535A		

		Matrix Spike RQ2001037-04			Duplicate Matrix Spike RQ2001037-05					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,4-Dioxane	0.040 U	10.1	10.0	101	9.52	10.0	95	33-146	6	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2001037-01	**Basis:**	NA

1,4-Dioxane by GC/MS

Analysis Method: 8270D SIM
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	0.040 U	0.040	0.027	1	02/03/20 15:09	2/3/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,4-Dioxane-d8	83	64 - 124	02/03/20 15:09	

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint/235.198A
Sample Matrix: Water

Service Request: R2000775
Date Analyzed: 02/03/20

Duplicate Lab Control Sample Summary
1,4-Dioxane by GC/MS

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2001037-02			RQ2001037-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,4-Dioxane	8270D SIM	8.46	10.0	85	9.99	10.0	100	58-124	17	30

Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Leader Professional Services, Inc. **Service Request:** R2000775
Project: Tonawanda Bisonite Paint/235.198A
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Extraction Method: EPA 3510C

Sample Name	Lab Code	Decachlorobiphenyl 10-164	Tetrachloro-m-xylene 10-147
MW4	R2000775-001	0*	0*
MW4 FP	R2000775-002	0*	0*
MW2	R2000775-004	23	66
MW5	R2000775-005	38	73
Equipment Blank	R2000775-006	24	67
MW2 DUP	R2000775-008	30	68
MW3	R2000775-009	9*	44
Method Blank	RQ2000937-05	34	71
Lab Control Sample	RQ2000937-06	35	70
Duplicate Lab Control Sample	RQ2000937-07	39	77
MW2 MS	RQ2000937-01	25	66
MW2 DMS	RQ2000937-02	21	61

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20
Sample Matrix:	Water	**Date Received:**	01/28/20
		Date Analyzed:	02/1/20
		Date Extracted:	01/30/20

Duplicate Matrix Spike Summary
Organochlorine Pesticides by Gas Chromatography

Sample Name:	MW2	**Units:**	ug/L
Lab Code:	R2000775-004	**Basis:**	NA
Analysis Method:	8081B		
Prep Method:	EPA 3510C		

		Matrix Spike			Duplicate Matrix Spike					
		RQ2000937-01			RQ2000937-02					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
4,4'-DDD	0.046 U	0.171	0.185	92	0.156	0.185	84	38-157	9	30
4,4'-DDE	0.046 U	0.129	0.185	69	0.116	0.185	62	10-200	11	30
4,4'-DDT	0.046 U	0.123	0.185	66	0.113	0.185	61	19-154	8	30
Aldrin	0.046 U	0.121	0.185	65	0.111	0.185	60	26-149	9	30
Dieldrin	0.046 U	0.152	0.185	82	0.147	0.185	79	41-164	3	30
Endosulfan I	0.046 U	0.144	0.185	78	0.139	0.185	75	47-149	4	30
Endosulfan II	0.046 U	0.149	0.185	81	0.147	0.185	79	51-148	2	30
Endosulfan Sulfate	0.046 U	0.113	0.185	61	0.0964	0.185	52	10-170	16	30
Endrin	0.046 U	0.163	0.185	88	0.159	0.185	86	48-165	3	30
Endrin Aldehyde	0.046 U	0.0711	0.185	38	0.0773	0.185	42	10-94	8	30
Endrin Ketone	0.046 U	0.150	0.185	81	0.145	0.185	78	48-162	3	30
Heptachlor	0.046 U	0.136	0.185	73	0.128	0.185	69	29-168	6	30
Heptachlor Epoxide	0.046 U	0.151	0.185	81	0.145	0.185	78	29-180	4	30
Methoxychlor	0.046 U	0.168	0.185	91	0.160	0.185	86	38-162	5	30
alpha-BHC	0.046 U	0.153	0.185	82	0.147	0.185	79	27-154	4	30
alpha-Chlordane	0.046 U	0.137	0.185	74	0.129	0.185	69	35-160	6	30
beta-BHC	0.046 U	0.156	0.185	84	0.151	0.185	82	32-184	3	30
delta-BHC	0.046 U	0.130	0.185	70	0.116	0.185	62	10-182	12	30
gamma-BHC (Lindane)	0.046 U	0.158	0.185	85	0.151	0.185	82	43-164	5	30
gamma-Chlordane	0.046 U	0.135	0.185	73	0.126	0.185	68	35-165	7	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2000937-05	**Basis:**	NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.050 U	0.050	0.020	1	02/01/20 07:57	1/30/20	
4,4'-DDE	0.050 U	0.050	0.020	1	02/01/20 07:57	1/30/20	
4,4'-DDT	0.050 U	0.050	0.020	1	02/01/20 07:57	1/30/20	
Aldrin	0.050 U	0.050	0.020	1	02/01/20 07:57	1/30/20	
Dieldrin	0.050 U	0.050	0.020	1	02/01/20 07:57	1/30/20	
Endosulfan I	0.050 U	0.050	0.020	1	02/01/20 07:57	1/30/20	
Endosulfan II	0.050 U	0.050	0.020	1	02/01/20 07:57	1/30/20	
Endosulfan Sulfate	0.050 U	0.050	0.020	1	02/01/20 07:57	1/30/20	
Endrin	0.050 U	0.050	0.020	1	02/01/20 07:57	1/30/20	
Endrin Aldehyde	0.050 U	0.050	0.020	1	02/01/20 07:57	1/30/20	
Endrin Ketone	0.050 U	0.050	0.020	1	02/01/20 07:57	1/30/20	
Heptachlor	0.050 U	0.050	0.020	1	02/01/20 07:57	1/30/20	
Heptachlor Epoxide	0.050 U	0.050	0.020	1	02/01/20 07:57	1/30/20	
Methoxychlor	0.050 U	0.050	0.020	1	02/01/20 07:57	1/30/20	
Toxaphene	0.50 U	0.50	0.50	1	02/01/20 07:57	1/30/20	
alpha-BHC	0.050 U	0.050	0.020	1	02/01/20 07:57	1/30/20	
alpha-Chlordane	0.050 U	0.050	0.020	1	02/01/20 07:57	1/30/20	
beta-BHC	0.050 U	0.050	0.020	1	02/01/20 07:57	1/30/20	
delta-BHC	0.050 U	0.050	0.020	1	02/01/20 07:57	1/30/20	
gamma-BHC (Lindane)	0.050 U	0.050	0.020	1	02/01/20 07:57	1/30/20	
gamma-Chlordane	0.050 U	0.050	0.020	1	02/01/20 07:57	1/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	34	10 - 164	02/01/20 07:57	
Tetrachloro-m-xylene	71	10 - 147	02/01/20 07:57	

Client: Leader Professional Services, Inc. **Service Request:** R2000775
Project: Tonawanda Bisonite Paint/235.198A **Date Analyzed:** 02/01/20
Sample Matrix: Water

Duplicate Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2000937-06			RQ2000937-07					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
4,4'-DDD	8081B	0.203	0.200	101	0.180	0.200	90	42-159	12	30
4,4'-DDE	8081B	0.170	0.200	85	0.223	0.200	111	47-147	27	30
4,4'-DDT	8081B	0.173	0.200	86	0.161	0.200	81	41-149	7	30
Aldrin	8081B	0.156	0.200	78	0.169	0.200	84	22-137	8	30
Dieldrin	8081B	0.176	0.200	88	0.198	0.200	99	52-144	12	30
Endosulfan I	8081B	0.161	0.200	81	0.182	0.200	91	52-136	12	30
Endosulfan II	8081B	0.176	0.200	88	0.191	0.200	96	57-138	8	30
Endosulfan Sulfate	8081B	0.158	0.200	79	0.0676	0.200	34	34-156	80*	30
Endrin	8081B	0.181	0.200	91	0.203	0.200	101	56-143	11	30
Endrin Aldehyde	8081B	0.0477 J	0.200	24	0.0655	0.200	33	10-166	31*	30
Endrin Ketone	8081B	0.172	0.200	86	0.183	0.200	92	59-143	6	30
Heptachlor	8081B	0.164	0.200	82	0.179	0.200	89	32-141	9	30
Heptachlor Epoxide	8081B	0.168	0.200	84	0.182	0.200	91	51-143	8	30
Methoxychlor	8081B	0.195	0.200	98	0.203	0.200	102	56-149	4	30
alpha-BHC	8081B	0.166	0.200	83	0.163	0.200	81	36-151	2	30
alpha-Chlordane	8081B	0.166	0.200	83	0.181	0.200	90	50-139	8	30
beta-BHC	8081B	0.166	0.200	83	0.178	0.200	89	55-149	7	30
delta-BHC	8081B	0.155	0.200	78	0.0834	0.200	42	29-159	60*	30
gamma-BHC (Lindane)	8081B	0.166	0.200	83	0.154	0.200	77	41-149	7	30
gamma-Chlordane	8081B	0.167	0.200	84	0.184	0.200	92	50-140	9	30

Client: Leader Professional Services, Inc. **Service Request:** R2000775
Project: Tonawanda Bisonite Paint/235.198A
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Extraction Method: EPA 3510C

Sample Name	Lab Code	Decachlorobiphenyl 10-152	Tetrachloro-m-xylene 14-129
MW4	R2000775-001	0*	0*
MW4 FP	R2000775-002	0*	0*
MW1	R2000775-003	20	60
MW2	R2000775-004	17	56
MW5	R2000775-005	33	64
Equipment Blank	R2000775-006	21	59
MW2 DUP	R2000775-008	26	61
MW3	R2000775-009	9*	41
Method Blank	RQ2000937-05	30	66
Lab Control Sample	RQ2000937-06	28	62
Duplicate Lab Control Sample	RQ2000937-07	30	64
MW2 MS	RQ2000937-03	18	57
MW2 DMS	RQ2000937-04	21	58

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QA/QC Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20
Sample Matrix:	Water	**Date Received:**	01/28/20
		Date Analyzed:	02/1/20
		Date Extracted:	01/30/20

Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs) by GC

Sample Name:	MW2	**Units:**	ug/L
Lab Code:	R2000775-004	**Basis:**	NA
Analysis Method:	8082A		
Prep Method:	EPA 3510C		

		Matrix Spike RQ2000937-03			**Duplicate Matrix Spike** RQ2000937-04					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	0.93 U	3.27	4.63	71	3.44	4.63	74	32-142	5	30
Aroclor 1260	0.93 U	1.65	4.63	36	2.03	4.63	44	28-142	20	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2000937-05	**Basis:**	NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	1.0 U	1.0	0.50	1	02/01/20 03:39	1/30/20	
Aroclor 1221	2.0 U	2.0	1.0	1	02/01/20 03:39	1/30/20	
Aroclor 1232	1.0 U	1.0	0.50	1	02/01/20 03:39	1/30/20	
Aroclor 1242	1.0 U	1.0	0.50	1	02/01/20 03:39	1/30/20	
Aroclor 1248	1.0 U	1.0	0.50	1	02/01/20 03:39	1/30/20	
Aroclor 1254	1.0 U	1.0	0.50	1	02/01/20 03:39	1/30/20	
Aroclor 1260	1.0 U	1.0	0.50	1	02/01/20 03:39	1/30/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	30	10 - 152	02/01/20 03:39	
Tetrachloro-m-xylene	66	14 - 129	02/01/20 03:39	

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint/235.198A
Sample Matrix: Water

Service Request: R2000775
Date Analyzed: 02/01/20

Duplicate Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs) by GC

Units:ug/L
Basis:NA

			Lab Control Sample			Duplicate Lab Control Sample				
			RQ2000937-06			RQ2000937-07				
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	8082A	3.80	5.00	76	4.06	5.00	81	49-123	5	30
Aroclor 1260	8082A	3.13	5.00	63	3.36	5.00	67	57-135	6	30

Client: Leader Professional Services, Inc. **Service Request:** R2000775
Project: Tonawanda Bisonite Paint/235.198A
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Chlorinated Herbicides by GC

Analysis Method: 8151A
Extraction Method: Method

Sample Name	Lab Code	2,4-Dichlorophenylacetic Acid 10-136
MW4	R2000775-001	0*
MW4 FP	R2000775-002	0*
MW2	R2000775-004	42
MW5	R2000775-005	44
Equipment Blank	R2000775-006	26
MW2 DUP	R2000775-008	40
MW3	R2000775-009	35
Method Blank	RQ2000985-03	41
Lab Control Sample	RQ2000985-04	58
Duplicate Lab Control Sample	RQ2000985-05	58
MW2 MS	RQ2000985-01	44
MW2 DMS	RQ2000985-02	40

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20
Sample Matrix:	Water	**Date Received:**	01/28/20
		Date Analyzed:	02/4/20
		Date Extracted:	01/31/20

Duplicate Matrix Spike Summary
Chlorinated Herbicides by GC

Sample Name:	MW2	**Units:**	ug/L
Lab Code:	R2000775-004	**Basis:**	NA
Analysis Method:	8151A		
Prep Method:	Method		

		Matrix Spike RQ2000985-01			**Duplicate Matrix Spike** RQ2000985-02					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
2,4,5-T	0.50 U	0.997	2.31	43	0.929	2.31	40	21-125	7	30
2,4,5-TP	0.50 U	0.934	2.31	40	0.866	2.31	37	21-120	8	30
2,4-D	0.50 U	0.887	2.31	38	0.829	2.31	36	26-154	7	30
Dicamba	0.50 U	0.879	2.31	38	0.811	2.31	35	22-125	8	30
Dinoseb	0.50 U	0.756	2.31	33	0.742	2.31	32	10-152	2	30
Pentachlorophenol (PCP)	0.50 U	1.05	2.31	45	0.954	2.31	41	10-117	10	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2000985-03	**Basis:**	NA

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	0.50 U	0.50	0.21	1	02/04/20 15:08	1/31/20	
2,4,5-TP	0.50 U	0.50	0.19	1	02/04/20 15:08	1/31/20	
2,4-D	0.50 U	0.50	0.31	1	02/04/20 15:08	1/31/20	
Dicamba	0.50 U	0.50	0.20	1	02/04/20 15:08	1/31/20	
Dinoseb	0.50 U	0.50	0.17	1	02/04/20 15:08	1/31/20	
Pentachlorophenol (PCP)	0.50 U	0.50	0.26	1	02/04/20 15:08	1/31/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	41	10 - 136	02/04/20 15:08	

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint/235.198A
Sample Matrix: Water

Service Request: R2000775
Date Analyzed: 02/04/20

Duplicate Lab Control Sample Summary
Chlorinated Herbicides by GC

Units:ug/L
Basis:NA

			Lab Control Sample RQ2000985-04			Duplicate Lab Control Sample RQ2000985-05				
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
2,4,5-T	8151A	1.82	2.50	73	1.85	2.50	74	21-125	2	30
2,4,5-TP	8151A	1.63	2.50	65	1.66	2.50	66	21-120	2	30
2,4-D	8151A	1.56	2.50	62	1.62	2.50	65	26-154	4	30
Dicamba	8151A	1.51	2.50	60	1.53	2.50	61	22-125	1	30
Dinoseb	8151A	1.20	2.50	48	1.33	2.50	53	13-112	10	30
Pentachlorophenol (PCP)	8151A	1.82	2.50	73	1.85	2.50	74	18-127	2	30

Metals

ALS Environmental—Rochester Laboratory
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METALS

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BLANKS

Contract: R2000775

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW4

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	C	Continuing Calibration Blank ug/L 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum	23.00	U	23.00	U	23.00	U	23.00	U	23.000	U	P
Antimony	4.70	J	4.70	U	4.70	U	4.70	U	4.700	U	P
Arsenic	3.90	U	3.90	U	3.90	U	3.90	U	3.900	U	P
Barium	3.00	U	3.00	U	3.00	U	3.00	U	3.000	U	P
Beryllium	0.13	U	0.13	U	0.13	U	0.13	U	0.130	U	P
Cadmium	0.35	U	0.35	U	0.35	U	0.35	U	-0.500	J	P
Mercury	0.077	U	0.077	U	0.077	U	0.077	U	0.077	U	CV
Calcium	220.00	U	220.00	U	220.00	U	220.00	U	220.000	U	P
Chromium	0.59	U	0.59	U	0.59	U	0.59	U	0.590	U	P
Cobalt	0.89	U	0.89	U	0.89	U	0.89	U	0.890	U	P
Copper	3.90	U	3.90	U	3.90	U	3.90	U	3.900	U	P
Iron	18.00	U	18.00	U	18.00	U	18.00	U	18.000	U	P
Lead	2.10	U	2.70	J	2.10	U	2.10	U	2.100	U	P
Magnesium	29.00	U	29.00	U	29.00	U	29.00	U	29.000	U	P
Manganese	3.70	U	3.70	U	3.70	U	3.70	U	3.700	U	P
Nickel	2.60	U	2.60	U	2.60	U	2.60	U	2.600	U	P
Potassium	200.00	U	200.00	U	200.00	U	200.00	U	200.000	U	P
Selenium	4.60	U	4.60	U	4.60	U	4.60	U	4.600	U	P
Silver	0.57	U	0.57	U	0.57	U	0.57	U	0.570	U	P
Sodium	130.00	U	130.00	U	130.00	U	130.00	U	130.000	U	P
Thallium	6.60	U	6.60	U	6.60	U	6.60	U	6.600	U	P
Vanadium	0.67	U	0.67	U	0.67	U	0.67	U	0.670	U	P
Zinc	9.40	U	9.40	U	9.40	U	9.40	U	9.400	U	P

Comments:

METALS

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BLANKS

Contract: R2000775

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW4

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	C	Continuing Calibration Blank ug/L 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum			23.00	U	23.00	U	23.00	U			P
Antimony			4.70	U	4.70	U	4.70	U			P
Arsenic			3.90	U	3.90	U	3.90	U			P
Barium			3.00	U	3.00	U	3.00	U			P
Beryllium			0.13	U	0.13	U	0.13	U			P
Cadmium			0.35	U	0.35	U	0.35	U			P
Mercury			0.077	U							CV
Calcium			220.00	U	220.00	U	220.00	U			P
Chromium			0.59	U	0.59	U	0.59	U			P
Cobalt			0.89	U	0.89	U	0.89	U			P
Copper			3.90	U	3.90	U	3.90	U			P
Iron			18.00	U	18.00	U	18.00	U			P
Lead			2.10	U	2.10	U	2.10	U			P
Magnesium			29.00	U	29.00	U	29.00	U			P
Manganese			3.70	U	3.70	U	3.70	U			P
Nickel			2.60	U	2.60	U	2.60	U			P
Potassium			200.00	U	200.00	U	200.00	U			P
Selenium			4.60	U	4.60	U	4.60	U			P
Silver			0.57	U	0.57	U	0.57	U			P
Sodium			130.00	U	130.00	U	130.00	U			P
Thallium			6.60	U	6.60	U	6.60	U			P
Vanadium			0.67	U	0.67	U	0.67	U			P
Zinc			9.40	U	9.40	U	9.40	U			P

Comments:

METALS

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BLANKS

Contract: R2000775

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW4

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	C	Continuing Calibration Blank ug/L 1	C	2	C	3	C	Preparation Blank	C	M
Calcium	220.00	U	220.00	U	220.00	U	220.00	U			P
Iron	18.00	U	18.00	U	18.00	U	18.00	U			P
Selenium	4.60	U	4.60	U	4.60	U	4.60	U			P
Sodium	130.00	U	130.00	U	130.00	U	130.00	U			P
Zinc	9.40	U	9.40	U	9.40	U	9.40	U			P

Comments:

METALS

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BLANKS

Contract: R2000775

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW4

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	C	Continuing Calibration Blank ug/L 1	C	2	C	3	C	Preparation Blank	C	M
Calcium			220.00	U							P
Iron			18.00	U							P
Selenium			4.60	U							P
Sodium			130.00	U							P
Zinc			9.40	U							P

Comments:

METALS

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SPIKE SAMPLE RECOVERY

SAMPLE NO.

MW2S

Contract: R2000775

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW4

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75 - 125	2210.00		241.00		2000.0	98		P
Antimony	75 - 125	496.00		4.70	U	500.0	99		P
Arsenic	75 - 125	40.50		3.90	U	40.0	101		P
Barium	75 - 125	2080.00		18.50	J	2000.0	103		P
Beryllium	75 - 125	50.40		0.13	U	50.0	101		P
Cadmium	75 - 125	48.90		0.35	U	50.0	98		P
Mercury	75 - 125	1.010		0.077	U	1.00	101		CV
Calcium		44000.00		40700.00		2000.0	165		P
Chromium	75 - 125	203.00		1.20	J	200.0	101		P
Cobalt	75 - 125	506.00		0.89	U	500.0	101		P
Copper	75 - 125	245.00		3.90	U	250.0	98		P
Iron	75 - 125	1100.00		142.00		1000.0	96		P
Lead	75 - 125	493.00		2.10	U	500.0	99		P
Magnesium	75 - 125	6500.00		4540.00		2000.0	98		P
Manganese	75 - 125	522.00		25.80		500.0	99		P
Nickel	75 - 125	496.00		2.60	U	500.0	99		P
Potassium	75 - 125	21600.00		1570.00	J	20000.0	100		P
Selenium	75 - 125	1070.00		4.60	U	1010.0	106		P
Silver	75 - 125	49.50		0.57	U	50.0	99		P
Sodium	75 - 125	24900.00		4980.00		20000.0	100		P
Thallium	75 - 125	1950.00		6.60	U	2000.0	98		P
Vanadium	75 - 125	500.00		0.67	U	500.0	100		P
Zinc	75 - 125	500.00		14.30	J	500.0	97		P

Comments: _____

METALS

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SPIKE SAMPLE RECOVERY

SAMPLE NO.

MW2SD

Contract: R2000775

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW4

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75 - 125	2180.00		241.00		2000.0	97		P
Antimony	75 - 125	482.00		4.70	U	500.0	96		P
Arsenic	75 - 125	39.10		3.90	U	40.0	98		P
Barium	75 - 125	2050.00		18.50	J	2000.0	102		P
Beryllium	75 - 125	49.60		0.13	U	50.0	99		P
Cadmium	75 - 125	48.00		0.35	U	50.0	96		P
Mercury	75 - 125	1.010		0.077	U	1.00	101		CV
Calcium		43600.00		40700.00		2000.0	145		P
Chromium	75 - 125	200.00		1.20	J	200.0	99		P
Cobalt	75 - 125	497.00		0.89	U	500.0	99		P
Copper	75 - 125	242.00		3.90	U	250.0	97		P
Iron	75 - 125	1080.00		142.00		1000.0	94		P
Lead	75 - 125	485.00		2.10	U	500.0	97		P
Magnesium	75 - 125	6430.00		4540.00		2000.0	94		P
Manganese	75 - 125	514.00		25.80		500.0	98		P
Nickel	75 - 125	488.00		2.60	U	500.0	98		P
Potassium	75 - 125	21300.00		1570.00	J	20000.0	99		P
Selenium	75 - 125	1070.00		4.60	U	1010.0	106		P
Silver	75 - 125	48.80		0.57	U	50.0	98		P
Sodium	75 - 125	24600.00		4980.00		20000.0	98		P
Thallium	75 - 125	1920.00		6.60	U	2000.0	96		P
Vanadium	75 - 125	491.00		0.67	U	500.0	98		P
Zinc	75 - 125	493.00		14.30	J	500.0	96		P

Comments: _____

METALS
-6-
DUPLICATES

SAMPLE NO.: MW2SD

Contract: R2000775

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW4

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		2210.00		2180.00		1		P
Antimony		496.00		482.00		3		P
Arsenic		40.50		39.10		4		P
Barium		2080.00		2050.00		1		P
Beryllium		50.40		49.60		2		P
Cadmium		48.90		48.00		2		P
Mercury		1.010		1.010		0		CV
Calcium		44000.00		43600.00		1		P
Chromium		203.00		200.00		1		P
Cobalt		506.00		497.00		2		P
Copper		245.00		242.00		1		P
Iron		1100.00		1080.00		2		P
Lead		493.00		485.00		2		P
Magnesium		6500.00		6430.00		1		P
Manganese		522.00		514.00		2		P
Nickel		496.00		488.00		2		P
Potassium		21600.00		21300.00		1		P
Selenium		1070.00		1070.00		0		P
Silver		49.50		48.80		1		P
Sodium		24900.00		24600.00		1		P
Thallium		1950.00		1920.00		2		P
Vanadium		500.00		491.00		2		P
Zinc		500.00		493.00		1		P

Comments: _____

METALS

-7-

LABORATORY CONTROL SAMPLE

Contract: R2000775

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW4

Solid LCS Source: _____

Aqueous LCS Source: CPI

Analyte	Aqueous (ug/L			Solid (mg/K				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum	2000	1960	98					
Antimony	500	491	98					
Arsenic	40	41	102					
Barium	2000	2070	104					
Beryllium	50	50	100					
Cadmium	50	50	100					
Mercury	1.000	0.989	99					
Calcium	2000	1780	89					
Chromium	200	202	101					
Cobalt	500	508	102					
Copper	250	237	95					
Iron	1000	966	97					
Lead	500	496	99					
Magnesium	2000	1930	96					
Manganese	500	495	99					
Nickel	500	503	101					
Potassium	20000	19200	96					
Selenium	1010	1060	105					
Silver	50	49	98					
Sodium	20000	19600	98					
Thallium	2000	1880	94					
Vanadium	500	496	99					
Zinc	500	496	99					

Comments: _____

General Chemistry

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R2000775-MB		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	9012B	0.010 U	mg/L	0.010	0.004	1	01/30/20 20:07	01/30/20	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000775
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20
Sample Matrix:	Water	**Date Received:**	01/28/20
		Date Analyzed:	01/30/20
		Date Extracted:	01/30/20

Duplicate Matrix Spike Summary
Cyanide, Total

Sample Name:	MW2	**Units:**	mg/L
Lab Code:	R2000775-004	**Basis:**	NA
Analysis Method:	9012B		
Prep Method:	Method		

		Matrix Spike			Duplicate Matrix Spike					
		R2000775-004MS			R2000775-004DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Cyanide, Total	0.010 U	0.100	0.100	100	0.099	0.100	99	77-119	1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint/235.198A
Sample Matrix: Water

Service Request: R2000775
Date Analyzed: 01/30/20

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2000775-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Cyanide, Total	9012B	0.100	0.100	100	85-115

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint/235.198A
Sample Matrix: Water

Service Request: R2000775
Date Analyzed: 01/30/20

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2000775-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Cyanide, Total	9012B	0.578	0.600	96	85-115

February 18, 2020 Service Request No:R2000776

Mr. Peter von Schondorf
Leader Professional Services, Inc.
271 Marsh Road
Suite 2
Pittsford, NY 14534

Laboratory Results for: Tonawanda Bisonite Paint

Dear Mr.von Schondorf,

Enclosed are the results of the sample(s) submitted to our laboratory January 28, 2020
For your reference, these analyses have been assigned our service request number **R2000776.**

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Janice Jaeger
Project Manager

CC: Mike Rumrill

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ALS Group USA, Corp.
dba ALS Environmental

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Narrative Documents

ALS Environmental—Rochester Laboratory
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ALS Environmental

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Water

Service Request: R2000776
Date Received: 01/28/2020

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

Five water samples were received for analysis at ALS Environmental on 01/28/2020. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Subcontracted Analytical Parameters:

No significant anomalies were noted with this analysis.

Approved by _____ Date 02/18/2020

Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Leader Professional Services, Inc. **Service Request:**R2000776

Project: Tonawanda Bisonite Paint/235.198A

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R2000776-001	MW3	1/27/2020	1125
R2000776-002	MW2	1/27/2020	1240
R2000776-003	MW2 DUP	1/27/2020	1246
R2000776-004	Field Blank	1/27/2020	1344
R2000776-005	Equipment Blank	1/27/2020	0000

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM 60296

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 2 OF 2

Project Name: Bisonite	Project Number: 235.198A
Project Manager: Pete von Schondorf	Report CC: M. Rumrill
Company/Address: Leader Prof Svc. 271 Marsh Rd Suite 2 Pittsford, N.Y. 14534	
Phone #: 585-248-2413	Email: pvonschondorf@leaderlink.com
Sampler's Signature: Pete von Schondorf	Sampler's Printed Name: Pete von Schondorf

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 8

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	PFOA's
MW3		1-27-20	11:25	W	2	✓
MW2		1-27-20	12:40	W	2	✓
MW2 DUP		1-27-20	12:46	W	2	✓
MW2 MS		1-27-20	12:52	W	2	✓
MW2 MSD		1-27-20	12:57	W	2	✓
Field Blank		1-27-20	13:44	W	2	✓

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other Ice

REMARKS/ ALTERNATE DESCRIPTION

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED

TURNAROUND REQUIREMENTS
___ RUSH (SURCHARGES APPLY)
___ 1 day ___ 2 day ___ 3 day
X 4 day ___ 5 day
X Standard (10 business days-No Surcharge)

REQUESTED REPORT DATE: _____

REPORT REQUIREMENTS
___ I. Results Only
___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
X IV. Data Validation Report with Raw Data

Edata X Yes ___ No

INVOICE INFORMATION
PO # 235.198A
BILL TO: Leader
271 MARSH RD
Pittsford, N.Y.
14534

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature:	Signature:	Signature:	Signature:	Signature:	
Printed Name: Rob Murphy	Printed Name: Daniel Ward	Printed Name:	Printed Name:	Printed Name:	
Firm: Leader	Firm: ALS	Firm:	Firm:	Firm:	
Date/Time: 1/28/20 17:10	Date/Time: 1/28/2020 17:10	Date/Time:	Date/Time:	Date/Time:	

R2000776 5
Leader Professional Services, Inc.
Tonawanda Bisonite Paint

Distribution: White - Lab Copy; Yellow - Return to Originator

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R2000776 5
Leader Professional Services, Inc.
Tonawanda Bisonite Paint

Cooler Receipt and Preservation Check Form

Project/Client Leader Folder Number

Cooler received on 1/28/2020 by: SW

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	Y (N)
2	**Custody papers** properly completed (ink, signed)?	(Y) N
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N
4	Circle: **Wet Ice Dry Ice Gel packs** present?	(Y) N

5a	**Perchlorate** samples have required headspace?	Y N (NA)
5b	Did VOA vials, Alk, or Sulfide have sig* **bubbles**?	(Y) N NA
6	Where did the bottles originate?	ALS/ROC CLIENT
7	Soil VOA received as:	Bulk Encore 5035set (NA)

8. Temperature Readings Date: 1/28/2020 Time: 1730 ID: IR#7 IR#10 From: Temp Blank Sample Bottle

Observed Temp (°C)	3.4°	1.8°	1.9°	5.3°	0.9°	1.5°	0.8
Within 0-6°C?	(Y) N	(Y) N	(Y) N	(Y) N	(Y) N	(Y) N	(Y) N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: Rack by SW on 1/28/20 at 1730
5035 samples placed in storage location: _____ by _____ on _____ at _____

Cooler Breakdown/Preservation Check**: Date: _____ Time: _____ by: _____

9.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?	YES NO	
10.	Did all bottle labels and tags agree with custody papers?	YES NO	
11.	Were correct containers used for the tests indicated?	YES NO	
12.	Were 5035 vials acceptable (no extra labels, not leaking)?	YES NO	N/A
13.	Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized	Tedlar® Bags Inflated	N/A

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2		HNO_3								
≤2		H_2SO_4								
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-						
		HCl	**	**						

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

see next sheet

Bottle lot numbers: _____

Explain all Discrepancies/ Other Comments:

4 Vials: MW4

1 Vial: MW1, MW3

HPROD	BULK
HTR	FLDT
(SUB)	HGFB
ALS	LL3541

Labels secondary reviewed by: _____

PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

Cooler Receipt and Preservation Check Form

Project/Client Lender Folder Number

Cooler received on 1/28/2020 by: dh

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	Y (N)
2	**Custody papers** properly completed (ink, signed)?	(Y) N
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N
4	Circle: **Wet Ice Dry Ice Gel packs** present?	(Y) N

5a	**Perchlorate** samples have required headspace?	Y N (NA)
5b	Did VOA vials, Alk,or Sulfide have sig* **bubbles**?	(Y) N NA
6	Where did the bottles originate?	(ALS/ROC) CLIENT
7	Soil VOA received as: Bulk Encore 5035set	(NA)

8. Temperature Readings Date: 1/28/20 Time: 1730 ID: IR#7 IR#10 From: Temp Blank Sample Bottle

Observed Temp (°C)	1.3	0.4	0.9				
Within 0-6°C?	(Y) N	(Y) N	(Y) N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R-07 by dh on 1/28/20 at 1730
5035 samples placed in storage location: _____ by _____ on _____ at _____

Cooler Breakdown/Preservation Check**: Date: 1/29/2020 Time: 1440 by:

9. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
10. Did all bottle labels and tags agree with custody papers? YES (NO)
11. Were correct containers used for the tests indicated? (YES) NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO
13. Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized Tedlar® Bags Inflated (NA) (NA)

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2		HNO_3								
≤2		H_2SO_4								
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-						
		HCl	**	**						

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: _____

Explain all Discrepancies/ Other Comments:

* 1 Vial: MW2, TB.

Rec'd Equipment Blank (2 bottles) not on COC

(1) bottle Field Blank

HPROD	BULK
HTR	FLDT
(SUB)	HGFB
ALS	LL3541

Labels secondary reviewed by: _____

PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: Leader Professional Services, Inc. **Service Request:** R2000776
Project: Tonawanda Bisonite Paint/235.198A

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2000776-001.01					
	PFC/537M,PFC/537M				
		1/29/2020	1138	SMO / GESMERIAN	2/3/2020
		1/29/2020	1139	SUBBED / GESMERIAN	2/3/2020
		1/31/2020	1446	OLC 155 / SMO2	2/3/2020
		1/31/2020	1446	K-OLC / SMO2	2/3/2020
		2/3/2020	1609	K-Disposed / KLMILLER	2/3/2020
R2000776-001.02					
		1/29/2020	1138	SMO / GESMERIAN	
		1/29/2020	1139	SUBBED / GESMERIAN	
		1/31/2020	1446	OLC 155 / SMO2	
		1/31/2020	1446	K-OLC / SMO2	
		2/5/2020	1555	K-DELILAH / BDAVIS	
		2/5/2020	1558	OLC 153 / BDAVIS	
R2000776-002.01					
	PFC/537M				
		1/29/2020	1138	SMO / GESMERIAN	2/3/2020
		1/29/2020	1139	SUBBED / GESMERIAN	2/3/2020
		1/31/2020	1446	OLC 155 / SMO2	2/3/2020
		1/31/2020	1446	K-OLC / SMO2	2/3/2020
		2/3/2020	1609	K-Disposed / KLMILLER	2/3/2020
R2000776-002.02					
		1/29/2020	1138	SMO / GESMERIAN	2/3/2020
		1/29/2020	1139	SUBBED / GESMERIAN	2/3/2020
		1/31/2020	1446	OLC 155 / SMO2	2/3/2020
		1/31/2020	1446	K-OLC / SMO2	2/3/2020
		2/3/2020	1609	K-Disposed / KLMILLER	2/3/2020
R2000776-002.03					
		1/29/2020	1139	SMO / GESMERIAN	2/3/2020
		1/29/2020	1139	SUBBED / GESMERIAN	2/3/2020
		1/31/2020	1446	OLC 155 / SMO2	2/3/2020
		1/31/2020	1446	K-OLC / SMO2	2/3/2020
		2/3/2020	1609	K-Disposed / KLMILLER	2/3/2020
R2000776-002.04					
		1/29/2020	1139	SMO / GESMERIAN	
		1/29/2020	1139	SUBBED / GESMERIAN	
		1/31/2020	1446	OLC 155 / SMO2	

Client: Leader Professional Services, Inc. **Service Request:** R2000776
Project: Tonawanda Bisonite Paint/235.198A

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		1/31/2020	1446	K-OLC / SMO2	
		2/5/2020	1555	K-DELILAH / BDAVIS	
		2/5/2020	1558	OLC 153 / BDAVIS	
R2000776-002.05					
		1/29/2020	1139	SMO / GESMERIAN	
		1/29/2020	1139	SUBBED / GESMERIAN	
		1/31/2020	1446	OLC 155 / SMO2	
		1/31/2020	1446	K-OLC / SMO2	
		2/5/2020	1555	K-DELILAH / BDAVIS	
		2/5/2020	1558	OLC 153 / BDAVIS	
R2000776-002.06					
		1/29/2020	1139	SMO / GESMERIAN	
		1/29/2020	1139	SUBBED / GESMERIAN	
		1/31/2020	1446	OLC 155 / SMO2	
		1/31/2020	1446	K-OLC / SMO2	
		2/5/2020	1555	K-DELILAH / BDAVIS	
		2/5/2020	1558	OLC 153 / BDAVIS	
R2000776-003.01					
	PFC/537M				
		1/29/2020	1138	SMO / GESMERIAN	2/3/2020
		1/29/2020	1139	SUBBED / GESMERIAN	2/3/2020
		1/31/2020	1445	OLC 155 / SMO2	2/3/2020
		1/31/2020	1446	K-OLC / SMO2	2/3/2020
		2/3/2020	1609	K-Disposed / KLMILLER	2/3/2020
R2000776-003.02					
		1/29/2020	1138	SMO / GESMERIAN	
		1/29/2020	1139	SUBBED / GESMERIAN	
		1/31/2020	1445	OLC 155 / SMO2	
		1/31/2020	1446	K-OLC / SMO2	
		2/5/2020	1555	K-DELILAH / BDAVIS	
		2/5/2020	1558	OLC 153 / BDAVIS	
R2000776-004.01					
	PFC/537M				
		1/29/2020	1138	SMO / GESMERIAN	2/3/2020
		1/29/2020	1139	SUBBED / GESMERIAN	2/3/2020
		1/31/2020	1446	OLC 155 / SMO2	2/3/2020
		1/31/2020	1446	K-OLC / SMO2	2/3/2020

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: Leader Professional Services, Inc. **Service Request:** R2000776
Project: Tonawanda Bisonite Paint/235.198A

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	PFC/537M				
		2/3/2020	1609	K-Disposed / KLMILLER	2/3/2020
R2000776-005.01					
	PFC/537M				
		1/29/2020	1138	SMO / GESMERIAN	2/3/2020
		1/29/2020	1139	SUBBED / GESMERIAN	2/3/2020
		1/31/2020	1446	OLC 155 / SMO2	2/3/2020
		1/31/2020	1446	K-OLC / SMO2	2/3/2020
		2/3/2020	1609	K-Disposed / KLMILLER	2/3/2020
R2000776-005.02					
		1/29/2020	1141	SMO / GESMERIAN	
		1/31/2020	1446	OLC 155 / SMO2	
		1/31/2020	1446	K-OLC / SMO2	
		2/5/2020	1555	K-DELILAH / BDAVIS	
		2/5/2020	1558	OLC 153 / BDAVIS	

Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E	Organics- Concentration has exceeded the calibration range for that specific analysis.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
H	Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.
#	Spike was diluted out.
+	Correlation coefficient for MSA is <0.995.
N	Inorganics- Matrix spike recovery was outside laboratory limits.
N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S	Concentration has been determined using Method of Standard Additions (MSA).
W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P	Concentration >40% difference between the two GC columns.
C	Confirmed by GC/MS
Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).
X	See Case Narrative for discussion.
MRL LOQ	Method Reporting Limit. Also known as: Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

[1] Analyses were performed according to our laboratoryôs NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	

Subcontracted Analytical Parameters

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February 14, 2020 **Analytical Report for Service Request No:** R2000776

Janice Jaeger
ALS Environmental
1565 Jefferson Rd, Building 300
Suite 360
Rochester, NY 14623

RE: Tonawanda Bisonite Paint / 235.198A

Dear Janice Jaeger,

Enclosed are the results of the sample(s) submitted to our laboratory January 28, 2020
For your reference, these analyses have been assigned our service request number **R2000776.**

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 3275. You may also contact me via email at Chris.Leaf@ALSGlobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

for Chris Leaf
Project Manager

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Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value.
J	The result is an estimated value.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjlabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water-	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.
Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Case Narrative

ALS Environmental—Kelso Laboratory
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ALS Environmental

Client: Leader Professional Services, Inc.
Project: Tonawanda Bisonite Paint
Sample Matrix: Water

Service Request: R2000776
Date Received: 01/28/2020

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

Five water samples were received for analysis at ALS Environmental on 01/28/2020. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Organic LC:

Method PFC/537M, 02/05/2020:One or more surrogate recoveries were significantly low (less than 10%) in sample MW3 due to matrix interferences. The samples contained significant amounts of solids that interfered with the efficiency of the extraction. A re-analysis of the sample was performed, but produced similar results. The low recoveries for the labeled analogs suggested increased variability for the quantitation of the associated native compounds in this matrix. The analyte results in question were flagged with an “X” qualifier to indicate the issue. No further corrective action was required.

Method PFC/537M, 02/05/2020:The lower control criterion was exceeded for 13C4-PFHpA in sample MW3 due to matrix interferences. Due to the presence of non-target background components that affected resolution of the surrogate, accurate quantitation was not optimal. Assuming the associated native analyte (Perfluoroheptanoic acid (PFHpA)) performed similar to the labeled analog, the effect on the reported results was minimal. A re-analysis of the sample was performed, but produced similar results. The results from the original analysis were reported. No further corrective action was appropriate.

Method PFC/537M, 02/05/2020:The upper control criterion was exceeded for one or more surrogates in sample MW3. The associated native analytes were not detected above the Method Reporting Limit (MRL) in this sample. The error associated with an elevated recovery equated to a high bias. A re-analysis of the sample was performed, but produced similar results. Assuming the native analytes performed similar to the labeled analogs, the effect on the reported results was minimal. The quality of the sample data was not significantly affected. No further corrective action was appropriate.

Approved by Noe D. Date 02/14/2020

Chain of Custody

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Intra-Network Chain of Custody

1565 Jefferson Rd, Building 300 • Rochester, NY 14623 • 585-288-5380 • FAX 585-288-8475

ALS Contact: Janice Jaeger

Project Name: Tonawanda Bisonite Paint
Project Number: 235.198A
Project Manager: Peter von Schondorf
Company: Leader Professional Services, Inc.
QAP: LAB QAP

Lab Code	Client Sample ID	# of Cont.	Matrix	Sample Date	Sample Time	Date Received	Send To	PFAS PFC/537M
~~R2000776-001~~	MW3	2	Water	1/27/20	1125	1/28/20	KELSO	IV
~~R2000776-002~~	MW2 QC	2	Water	1/27/20	1240	1/28/20	KELSO	IV
~~R2000776-003~~	MW2 DUP	2	Water	1/27/20	1246	1/28/20	KELSO	IV
~~R2000776-004~~	Field Blank	1	Water	1/27/20	1344	1/28/20	KELSO	IV
~~R2000776-005~~	Equipment Blank	2	Water	1/27/20	0000	1/28/20	KELSO	IV

Test Comments
PFAS - PFC/537M R2000776-001,2,3,4,5 NY21 list

Special Instructions/Comments

pH Checked _____

Turnaround Requirements
_____RUSH (Surcharges Apply)
PLEASE CIRCLE WORK DAYS
1 2 3 4 5
X STANDARD
Requested FAX Date: _____
Requested Report Date: 02/14/20

Report Requirements
___ I. Results Only
X II. Results + QC Summaries
___ III. Results + QC and Calibration Summaries
X IV. Data Validation Report with Raw Data
PQL/MDL/J Y
EDD Y

Invoice Information
PO# 58R2000776
Bill to

Relinquished By: [signature] 1/30/2020/ 1320 Received By: [signature] 19 1/31/20 0920 Airbill Number: _____

PC CL

Cooler Receipt and Preservation Form

Client ALS - Rochester Service Request ~~K20~~ R2000776

Received: 1/31/2020 Opened: 1/31/2020 By: [illegible] Unloaded: 1/31/2020 By: [illegible]

1. Samples were received via? *USPS* (*Fed Ex*) *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) (*Cooler*) *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA (Y) N If yes, how many and where? 1 Front
   If present, were custody seals intact? (Y) N If present, were they signed and dated? Y (N)

Raw Cooler Temp	Corrected Cooler Temp	Raw Temp Blank	Corrected Temp Blank	Corr. Factor	Thermometer ID	Cooler/COC ID (NA)	Tracking Number NA	File
0.0	0.3	—	—	+0.3	379		4846 1686 2113	

4. Packing material: *Inserts* (*Baggies*) *Bubble Wrap* *Gel Packs* (*Wet Ice*) *Dry Ice* *Sleeves* _____
5. Were custody papers properly filled out (ink, signed, etc.)? NA (Y) N
6. Were samples received in good condition (temperature, unbroken)? *Indicate in the table below.* NA (Y) N
   If applicable, tissue samples were received: *Frozen* *Partially Thawed* *Thawed*
7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA (Y) N
8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA (Y) N
9. Were appropriate bottles/containers and volumes received for the tests indicated? NA (Y) N
10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* (NA) Y N
11. Were VOA vials received without headspace? *Indicate in the table below.* (NA) Y N
12. Was C12/Res negative? (NA) Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: _____

PFAS by HPLC/MS/MS

ALS Environmental—Kelso Laboratory
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Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000776
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 11:25
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW3	**Units:**	ng/L
Lab Code:	R2000776-001	**Basis:**	NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Prep Method: ALS SOP

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkane Sulfonic Acids							
Perfluorobutane sulfonic acid (PFBS)	ND U	4.6	0.28	1	02/05/20 02:15	2/3/20	
Perfluorohexane sulfonic acid (PFHxS)	ND U	4.6	1.3	1	02/05/20 02:15	2/3/20	
Perfluoroheptane sulfonic acid (PFHpS)	ND U	4.6	0.44	1	02/05/20 02:15	2/3/20	
Perfluorooctane sulfonic acid (PFOS)	**2.3**	1.9	0.44	1	02/05/20 02:15	2/3/20	
Perfluorodecane sulfonic acid (PFDS)	ND U	4.6	0.30	1	02/05/20 02:15	2/3/20	
Perfluoroalkane Carboxylic Acids							
Perfluorobutanoic acid (PFBA)	**ND UX**	4.6	0.40	1	02/05/20 02:15	2/3/20	
Perfluoropentanoic acid (PFPeA)	**ND UX**	4.6	1.7	1	02/05/20 02:15	2/3/20	
Perfluorohexanoic acid (PFHxA)	**ND UX**	9.3	8.8	1	02/05/20 02:15	2/3/20	
Perfluoroheptanoic acid (PFHpA)	ND U	4.6	0.63	1	02/05/20 02:15	2/3/20	
Perfluorooctanoic acid (PFOA)	**11**	1.9	0.35	1	02/05/20 02:15	2/3/20	
Perfluorononanoic acid (PFNA)	ND U	4.6	1.1	1	02/05/20 02:15	2/3/20	
Perfluorodecanoic acid (PFDA)	ND U	4.6	1.2	1	02/05/20 02:15	2/3/20	
Perfluoroundecanoic acid (PFUnDA)	ND U	4.6	1.5	1	02/05/20 02:15	2/3/20	
Perfluorododecanoic acid (PFDoDA)	ND U	4.6	1.3	1	02/05/20 02:15	2/3/20	
Perfluorotridecanoic acid (PFTrDA)	ND U	4.6	1.3	1	02/05/20 02:15	2/3/20	
Perfluorotetradecanoic acid (PFTeDA)	ND U	4.6	2.0	1	02/05/20 02:15	2/3/20	
Perfluoroalkyl Sulfonamides							
Perfluorooctane sulfonamide (FOSA)	ND U	4.6	0.52	1	02/05/20 02:15	2/3/20	
N-Methyl perfluorooctane sulfonamidoacetic acid	ND U	4.6	1.4	1	02/05/20 02:15	2/3/20	
N-Ethyl perfluorooctane sulfonamidoacetic acid	**1.4 J**	4.6	0.50	1	02/05/20 02:15	2/3/20	
(n:2) Fluorotelomer Sulfonic Acids							
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	**0.66 J**	4.6	0.55	1	02/05/20 02:15	2/3/20	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	ND U	4.6	0.15	1	02/05/20 02:15	2/3/20	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000776
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 11:25
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW3	**Units:**	ng/L
Lab Code:	R2000776-001	**Basis:**	NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Prep Method: ALS SOP

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C3-PFBS	23	20 - 109	02/05/20 02:15	
18O2-PFHxS	43	26 - 122	02/05/20 02:15	
13C4-PFOS	67	25 - 121	02/05/20 02:15	
13C4-PFBA	4	27 - 124	02/05/20 02:15	*
13C5-PFPeA	5	27 - 138	02/05/20 02:15	*
13C2-PFHxA	9	28 - 132	02/05/20 02:15	*
13C4-PFHpA	14	19 - 139	02/05/20 02:15	*
13C4-PFOA	25	22 - 130	02/05/20 02:15	
13C5-PFNA	32	20 - 127	02/05/20 02:15	
13C2-PFDA	60	24 - 125	02/05/20 02:15	
13C2-PFUnDA	71	22 - 125	02/05/20 02:15	
13C2-PFDoDA	59	19 - 122	02/05/20 02:15	
13C2-PFTeDA	56	13 - 124	02/05/20 02:15	
13C8-FOSA	48	18 - 109	02/05/20 02:15	
D3-MeFOSAA	65	9 - 123	02/05/20 02:15	
D5-EtFOSAA	72	12 - 126	02/05/20 02:15	
13C2-6:2 FTS	275	10 - 226	02/05/20 02:15	*
13C2-8:2 FTS	457	10 - 202	02/05/20 02:15	*

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000776
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 12:40
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW2	**Units:**	ng/L
Lab Code:	R2000776-002	**Basis:**	NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Prep Method: ALS SOP

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkane Sulfonic Acids							
Perfluorobutane sulfonic acid (PFBS)	**0.40 J**	3.9	0.28	1	02/05/20 02:26	2/3/20	
Perfluorohexane sulfonic acid (PFHxS)	ND U	3.9	1.3	1	02/05/20 02:26	2/3/20	
Perfluoroheptane sulfonic acid (PFHpS)	ND U	3.9	0.44	1	02/05/20 02:26	2/3/20	
Perfluorooctane sulfonic acid (PFOS)	**1.5 J**	1.6	0.44	1	02/05/20 02:26	2/3/20	
Perfluorodecane sulfonic acid (PFDS)	ND U	3.9	0.30	1	02/05/20 02:26	2/3/20	
Perfluoroalkane Carboxylic Acids							
Perfluorobutanoic acid (PFBA)	**3.4 J**	3.9	0.40	1	02/05/20 02:26	2/3/20	
Perfluoropentanoic acid (PFPeA)	ND U	3.9	1.7	1	02/05/20 02:26	2/3/20	
Perfluorohexanoic acid (PFHxA)	ND U	9.2	8.8	1	02/05/20 02:26	2/3/20	
Perfluoroheptanoic acid (PFHpA)	**0.73 J**	3.9	0.63	1	02/05/20 02:26	2/3/20	
Perfluorooctanoic acid (PFOA)	**1.4 J**	1.6	0.35	1	02/05/20 02:26	2/3/20	
Perfluorononanoic acid (PFNA)	ND U	3.9	1.1	1	02/05/20 02:26	2/3/20	
Perfluorodecanoic acid (PFDA)	ND U	3.9	1.2	1	02/05/20 02:26	2/3/20	
Perfluoroundecanoic acid (PFUnDA)	ND U	3.9	1.5	1	02/05/20 02:26	2/3/20	
Perfluorododecanoic acid (PFDoDA)	ND U	3.9	1.3	1	02/05/20 02:26	2/3/20	
Perfluorotridecanoic acid (PFTrDA)	ND U	3.9	1.3	1	02/05/20 02:26	2/3/20	
Perfluorotetradecanoic acid (PFTeDA)	ND U	3.9	2.0	1	02/05/20 02:26	2/3/20	
Perfluoroalkyl Sulfonamides							
Perfluorooctane sulfonamide (FOSA)	ND U	3.9	0.52	1	02/05/20 02:26	2/3/20	
N-Methyl perfluorooctane sulfonamidoacetic acid	ND U	3.9	1.4	1	02/05/20 02:26	2/3/20	
N-Ethyl perfluorooctane sulfonamidoacetic acid	ND U	3.9	0.50	1	02/05/20 02:26	2/3/20	
(n:2) Fluorotelomer Sulfonic Acids							
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ND U	3.9	0.55	1	02/05/20 02:26	2/3/20	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	ND U	3.9	0.15	1	02/05/20 02:26	2/3/20	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000776
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 12:40
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW2	**Units:**	ng/L
Lab Code:	R2000776-002	**Basis:**	NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Prep Method: ALS SOP

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C3-PFBS	43	20 - 109	02/05/20 02:26	
18O2-PFHxS	70	26 - 122	02/05/20 02:26	
13C4-PFOS	74	25 - 121	02/05/20 02:26	
13C4-PFBA	54	27 - 124	02/05/20 02:26	
13C5-PFPeA	53	27 - 138	02/05/20 02:26	
13C2-PFHxA	67	28 - 132	02/05/20 02:26	
13C4-PFHpA	67	19 - 139	02/05/20 02:26	
13C4-PFOA	82	22 - 130	02/05/20 02:26	
13C5-PFNA	79	20 - 127	02/05/20 02:26	
13C2-PFDA	83	24 - 125	02/05/20 02:26	
13C2-PFUnDA	87	22 - 125	02/05/20 02:26	
13C2-PFDoDA	69	19 - 122	02/05/20 02:26	
13C2-PFTeDA	62	13 - 124	02/05/20 02:26	
13C8-FOSA	52	18 - 109	02/05/20 02:26	
D3-MeFOSAA	78	9 - 123	02/05/20 02:26	
D5-EtFOSAA	68	12 - 126	02/05/20 02:26	
13C2-6:2 FTS	206	10 - 226	02/05/20 02:26	
13C2-8:2 FTS	134	10 - 202	02/05/20 02:26	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000776
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 12:46
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW2 DUP	**Units:**	ng/L
Lab Code:	R2000776-003	**Basis:**	NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Prep Method: ALS SOP

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkane Sulfonic Acids							
Perfluorobutane sulfonic acid (PFBS)	**0.36 J**	4.0	0.28	1	02/05/20 02:57	2/3/20	
Perfluorohexane sulfonic acid (PFHxS)	ND U	4.0	1.3	1	02/05/20 02:57	2/3/20	
Perfluoroheptane sulfonic acid (PFHpS)	ND U	4.0	0.44	1	02/05/20 02:57	2/3/20	
Perfluorooctane sulfonic acid (PFOS)	**1.7**	1.6	0.44	1	02/05/20 02:57	2/3/20	
Perfluorodecane sulfonic acid (PFDS)	ND U	4.0	0.30	1	02/05/20 02:57	2/3/20	
Perfluoroalkane Carboxylic Acids							
Perfluorobutanoic acid (PFBA)	**3.3 J**	4.0	0.40	1	02/05/20 02:57	2/3/20	
Perfluoropentanoic acid (PFPeA)	ND U	4.0	1.7	1	02/05/20 02:57	2/3/20	
Perfluorohexanoic acid (PFHxA)	ND U	9.2	8.8	1	02/05/20 02:57	2/3/20	
Perfluoroheptanoic acid (PFHpA)	**1.9 J**	4.0	0.63	1	02/05/20 02:57	2/3/20	
Perfluorooctanoic acid (PFOA)	**1.3 J**	1.6	0.35	1	02/05/20 02:57	2/3/20	
Perfluorononanoic acid (PFNA)	ND U	4.0	1.1	1	02/05/20 02:57	2/3/20	
Perfluorodecanoic acid (PFDA)	ND U	4.0	1.2	1	02/05/20 02:57	2/3/20	
Perfluoroundecanoic acid (PFUnDA)	ND U	4.0	1.5	1	02/05/20 02:57	2/3/20	
Perfluorododecanoic acid (PFDoDA)	ND U	4.0	1.3	1	02/05/20 02:57	2/3/20	
Perfluorotridecanoic acid (PFTrDA)	ND U	4.0	1.3	1	02/05/20 02:57	2/3/20	
Perfluorotetradecanoic acid (PFTeDA)	ND U	4.0	2.0	1	02/05/20 02:57	2/3/20	
Perfluoroalkyl Sulfonamides							
Perfluorooctane sulfonamide (FOSA)	ND U	4.0	0.52	1	02/05/20 02:57	2/3/20	
N-Methyl perfluorooctane sulfonamidoacetic acid	ND U	4.0	1.4	1	02/05/20 02:57	2/3/20	
N-Ethyl perfluorooctane sulfonamidoacetic acid	ND U	4.0	0.50	1	02/05/20 02:57	2/3/20	
(n:2) Fluorotelomer Sulfonic Acids							
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ND U	4.0	0.55	1	02/05/20 02:57	2/3/20	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	ND U	4.0	0.15	1	02/05/20 02:57	2/3/20	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000776
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 12:46
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	MW2 DUP	**Units:**	ng/L
Lab Code:	R2000776-003	**Basis:**	NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Prep Method: ALS SOP

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C3-PFBS	37	20 - 109	02/05/20 02:57	
18O2-PFHxS	64	26 - 122	02/05/20 02:57	
13C4-PFOS	70	25 - 121	02/05/20 02:57	
13C4-PFBA	52	27 - 124	02/05/20 02:57	
13C5-PFPeA	47	27 - 138	02/05/20 02:57	
13C2-PFHxA	67	28 - 132	02/05/20 02:57	
13C4-PFHpA	60	19 - 139	02/05/20 02:57	
13C4-PFOA	80	22 - 130	02/05/20 02:57	
13C5-PFNA	70	20 - 127	02/05/20 02:57	
13C2-PFDA	80	24 - 125	02/05/20 02:57	
13C2-PFUnDA	80	22 - 125	02/05/20 02:57	
13C2-PFDoDA	65	19 - 122	02/05/20 02:57	
13C2-PFTeDA	68	13 - 124	02/05/20 02:57	
13C8-FOSA	56	18 - 109	02/05/20 02:57	
D3-MeFOSAA	76	9 - 123	02/05/20 02:57	
D5-EtFOSAA	71	12 - 126	02/05/20 02:57	
13C2-6:2 FTS	167	10 - 226	02/05/20 02:57	
13C2-8:2 FTS	117	10 - 202	02/05/20 02:57	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000776
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 13:44
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	Field Blank	**Units:**	ng/L
Lab Code:	R2000776-004	**Basis:**	NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Prep Method: ALS SOP

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkane Sulfonic Acids							
Perfluorobutane sulfonic acid (PFBS)	ND U	4.3	0.28	1	02/05/20 03:08	2/3/20	
Perfluorohexane sulfonic acid (PFHxS)	ND U	4.3	1.3	1	02/05/20 03:08	2/3/20	
Perfluoroheptane sulfonic acid (PFHpS)	ND U	4.3	0.44	1	02/05/20 03:08	2/3/20	
Perfluorooctane sulfonic acid (PFOS)	ND U	1.7	0.44	1	02/05/20 03:08	2/3/20	
Perfluorodecane sulfonic acid (PFDS)	ND U	4.3	0.30	1	02/05/20 03:08	2/3/20	
Perfluoroalkane Carboxylic Acids							
Perfluorobutanoic acid (PFBA)	ND U	4.3	0.40	1	02/05/20 03:08	2/3/20	
Perfluoropentanoic acid (PFPeA)	ND U	4.3	1.7	1	02/05/20 03:08	2/3/20	
Perfluorohexanoic acid (PFHxA)	ND U	9.2	8.8	1	02/05/20 03:08	2/3/20	
Perfluoroheptanoic acid (PFHpA)	ND U	4.3	0.63	1	02/05/20 03:08	2/3/20	
Perfluorooctanoic acid (PFOA)	ND U	1.7	0.35	1	02/05/20 03:08	2/3/20	
Perfluorononanoic acid (PFNA)	ND U	4.3	1.1	1	02/05/20 03:08	2/3/20	
Perfluorodecanoic acid (PFDA)	ND U	4.3	1.2	1	02/05/20 03:08	2/3/20	
Perfluoroundecanoic acid (PFUnDA)	ND U	4.3	1.5	1	02/05/20 03:08	2/3/20	
Perfluorododecanoic acid (PFDoDA)	ND U	4.3	1.3	1	02/05/20 03:08	2/3/20	
Perfluorotridecanoic acid (PFTrDA)	ND U	4.3	1.3	1	02/05/20 03:08	2/3/20	
Perfluorotetradecanoic acid (PFTeDA)	ND U	4.3	2.0	1	02/05/20 03:08	2/3/20	
Perfluoroalkyl Sulfonamides							
Perfluorooctane sulfonamide (FOSA)	ND U	4.3	0.52	1	02/05/20 03:08	2/3/20	
N-Methyl perfluorooctane sulfonamidoacetic acid	ND U	4.3	1.4	1	02/05/20 03:08	2/3/20	
N-Ethyl perfluorooctane sulfonamidoacetic acid	ND U	4.3	0.50	1	02/05/20 03:08	2/3/20	
(n:2) Fluorotelomer Sulfonic Acids							
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ND U	4.3	0.55	1	02/05/20 03:08	2/3/20	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	ND U	4.3	0.15	1	02/05/20 03:08	2/3/20	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000776
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 13:44
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	Field Blank	**Units:**	ng/L
Lab Code:	R2000776-004	**Basis:**	NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Prep Method: ALS SOP

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C3-PFBS	40	20 - 109	02/05/20 03:08	
18O2-PFHxS	87	26 - 122	02/05/20 03:08	
13C4-PFOS	93	25 - 121	02/05/20 03:08	
13C4-PFBA	62	27 - 124	02/05/20 03:08	
13C5-PFPeA	54	27 - 138	02/05/20 03:08	
13C2-PFHxA	64	28 - 132	02/05/20 03:08	
13C4-PFHpA	81	19 - 139	02/05/20 03:08	
13C4-PFOA	87	22 - 130	02/05/20 03:08	
13C5-PFNA	78	20 - 127	02/05/20 03:08	
13C2-PFDA	90	24 - 125	02/05/20 03:08	
13C2-PFUnDA	93	22 - 125	02/05/20 03:08	
13C2-PFDoDA	79	19 - 122	02/05/20 03:08	
13C2-PFTeDA	79	13 - 124	02/05/20 03:08	
13C8-FOSA	70	18 - 109	02/05/20 03:08	
D3-MeFOSAA	86	9 - 123	02/05/20 03:08	
D5-EtFOSAA	91	12 - 126	02/05/20 03:08	
13C2-6:2 FTS	83	10 - 226	02/05/20 03:08	
13C2-8:2 FTS	89	10 - 202	02/05/20 03:08	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000776
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 00:00
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	Equipment Blank	**Units:**	ng/L
Lab Code:	R2000776-005	**Basis:**	NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Prep Method: ALS SOP

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkane Sulfonic Acids							
Perfluorobutane sulfonic acid (PFBS)	ND U	4.1	0.28	1	02/05/20 03:18	2/3/20	
Perfluorohexane sulfonic acid (PFHxS)	ND U	4.1	1.3	1	02/05/20 03:18	2/3/20	
Perfluoroheptane sulfonic acid (PFHpS)	ND U	4.1	0.44	1	02/05/20 03:18	2/3/20	
Perfluorooctane sulfonic acid (PFOS)	ND U	1.6	0.44	1	02/05/20 03:18	2/3/20	
Perfluorodecane sulfonic acid (PFDS)	ND U	4.1	0.30	1	02/05/20 03:18	2/3/20	
Perfluoroalkane Carboxylic Acids							
Perfluorobutanoic acid (PFBA)	ND U	4.1	0.40	1	02/05/20 03:18	2/3/20	
Perfluoropentanoic acid (PFPeA)	ND U	4.1	1.7	1	02/05/20 03:18	2/3/20	
Perfluorohexanoic acid (PFHxA)	ND U	9.2	8.8	1	02/05/20 03:18	2/3/20	
Perfluoroheptanoic acid (PFHpA)	ND U	4.1	0.63	1	02/05/20 03:18	2/3/20	
Perfluorooctanoic acid (PFOA)	ND U	1.6	0.35	1	02/05/20 03:18	2/3/20	
Perfluorononanoic acid (PFNA)	ND U	4.1	1.1	1	02/05/20 03:18	2/3/20	
Perfluorodecanoic acid (PFDA)	ND U	4.1	1.2	1	02/05/20 03:18	2/3/20	
Perfluoroundecanoic acid (PFUnDA)	ND U	4.1	1.5	1	02/05/20 03:18	2/3/20	
Perfluorododecanoic acid (PFDoDA)	ND U	4.1	1.3	1	02/05/20 03:18	2/3/20	
Perfluorotridecanoic acid (PFTrDA)	ND U	4.1	1.3	1	02/05/20 03:18	2/3/20	
Perfluorotetradecanoic acid (PFTeDA)	ND U	4.1	2.0	1	02/05/20 03:18	2/3/20	
Perfluoroalkyl Sulfonamides							
Perfluorooctane sulfonamide (FOSA)	ND U	4.1	0.52	1	02/05/20 03:18	2/3/20	
N-Methyl perfluorooctane sulfonamidoacetic acid	ND U	4.1	1.4	1	02/05/20 03:18	2/3/20	
N-Ethyl perfluorooctane sulfonamidoacetic acid	ND U	4.1	0.50	1	02/05/20 03:18	2/3/20	
(n:2) Fluorotelomer Sulfonic Acids							
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ND U	4.1	0.55	1	02/05/20 03:18	2/3/20	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	ND U	4.1	0.15	1	02/05/20 03:18	2/3/20	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000776
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20 00:00
Sample Matrix:	Water	**Date Received:**	01/28/20 17:10
Sample Name:	Equipment Blank	**Units:**	ng/L
Lab Code:	R2000776-005	**Basis:**	NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Prep Method: ALS SOP

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C3-PFBS	30	20 - 109	02/05/20 03:18	
18O2-PFHxS	61	26 - 122	02/05/20 03:18	
13C4-PFOS	78	25 - 121	02/05/20 03:18	
13C4-PFBA	53	27 - 124	02/05/20 03:18	
13C5-PFPeA	41	27 - 138	02/05/20 03:18	
13C2-PFHxA	65	28 - 132	02/05/20 03:18	
13C4-PFHpA	52	19 - 139	02/05/20 03:18	
13C4-PFOA	77	22 - 130	02/05/20 03:18	
13C5-PFNA	71	20 - 127	02/05/20 03:18	
13C2-PFDA	79	24 - 125	02/05/20 03:18	
13C2-PFUnDA	85	22 - 125	02/05/20 03:18	
13C2-PFDoDA	72	19 - 122	02/05/20 03:18	
13C2-PFTeDA	64	13 - 124	02/05/20 03:18	
13C8-FOSA	51	18 - 109	02/05/20 03:18	
D3-MeFOSAA	65	9 - 123	02/05/20 03:18	
D5-EtFOSAA	63	12 - 126	02/05/20 03:18	
13C2-6:2 FTS	68	10 - 226	02/05/20 03:18	
13C2-8:2 FTS	76	10 - 202	02/05/20 03:18	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000776
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ng/L
Lab Code:	KQ2001501-04	**Basis:**	NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Prep Method: ALS SOP

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkane Sulfonic Acids							
Perfluorobutane sulfonic acid (PFBS)	ND U	5.0	0.28	1	02/05/20 02:05	2/3/20	
Perfluorohexane sulfonic acid (PFHxS)	ND U	5.0	1.3	1	02/05/20 02:05	2/3/20	
Perfluoroheptane sulfonic acid (PFHpS)	ND U	5.0	0.44	1	02/05/20 02:05	2/3/20	
Perfluorooctane sulfonic acid (PFOS)	ND U	2.0	0.44	1	02/05/20 02:05	2/3/20	
Perfluorodecane sulfonic acid (PFDS)	ND U	5.0	0.30	1	02/05/20 02:05	2/3/20	
Perfluoroalkane Carboxylic Acids							
Perfluorobutanoic acid (PFBA)	ND U	5.0	0.40	1	02/05/20 02:05	2/3/20	
Perfluoropentanoic acid (PFPeA)	ND U	5.0	1.7	1	02/05/20 02:05	2/3/20	
Perfluorohexanoic acid (PFHxA)	ND U	10	8.8	1	02/05/20 02:05	2/3/20	
Perfluoroheptanoic acid (PFHpA)	ND U	5.0	0.63	1	02/05/20 02:05	2/3/20	
Perfluorooctanoic acid (PFOA)	ND U	2.0	0.35	1	02/05/20 02:05	2/3/20	
Perfluorononanoic acid (PFNA)	ND U	5.0	1.1	1	02/05/20 02:05	2/3/20	
Perfluorodecanoic acid (PFDA)	ND U	5.0	1.2	1	02/05/20 02:05	2/3/20	
Perfluoroundecanoic acid (PFUnDA)	ND U	5.0	1.5	1	02/05/20 02:05	2/3/20	
Perfluorododecanoic acid (PFDoDA)	ND U	5.0	1.3	1	02/05/20 02:05	2/3/20	
Perfluorotridecanoic acid (PFTrDA)	ND U	5.0	1.3	1	02/05/20 02:05	2/3/20	
Perfluorotetradecanoic acid (PFTeDA)	ND U	5.0	2.0	1	02/05/20 02:05	2/3/20	
Perfluoroalkyl Sulfonamides							
Perfluorooctane sulfonamide (FOSA)	ND U	5.0	0.52	1	02/05/20 02:05	2/3/20	
N-Methyl perfluorooctane sulfonamidoacetic acid	ND U	5.0	1.4	1	02/05/20 02:05	2/3/20	
N-Ethyl perfluorooctane sulfonamidoacetic acid	ND U	5.0	0.50	1	02/05/20 02:05	2/3/20	
(n:2) Fluorotelomer Sulfonic Acids							
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ND U	5.0	0.55	1	02/05/20 02:05	2/3/20	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	ND U	5.0	0.15	1	02/05/20 02:05	2/3/20	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000776
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ng/L
Lab Code:	KQ2001501-04	**Basis:**	NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Prep Method: ALS SOP

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C3-PFBS	49	20 - 109	02/05/20 02:05	
18O2-PFHxS	70	26 - 122	02/05/20 02:05	
13C4-PFOS	76	25 - 121	02/05/20 02:05	
13C4-PFBA	58	27 - 124	02/05/20 02:05	
13C5-PFPeA	55	27 - 138	02/05/20 02:05	
13C2-PFHxA	57	28 - 132	02/05/20 02:05	
13C4-PFHpA	70	19 - 139	02/05/20 02:05	
13C4-PFOA	85	22 - 130	02/05/20 02:05	
13C5-PFNA	70	20 - 127	02/05/20 02:05	
13C2-PFDA	81	24 - 125	02/05/20 02:05	
13C2-PFUnDA	85	22 - 125	02/05/20 02:05	
13C2-PFDoDA	74	19 - 122	02/05/20 02:05	
13C2-PFTeDA	74	13 - 124	02/05/20 02:05	
13C8-FOSA	65	18 - 109	02/05/20 02:05	
D3-MeFOSAA	75	9 - 123	02/05/20 02:05	
D5-EtFOSAA	75	12 - 126	02/05/20 02:05	
13C2-6:2 FTS	75	10 - 226	02/05/20 02:05	
13C2-8:2 FTS	88	10 - 202	02/05/20 02:05	

Client: Leader Professional Services, Inc. **Service Request:** R2000776
Project: Tonawanda Bisonite Paint/235.198A
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Extraction Method: ALS SOP

Surrogate	Control Limits	MW3 R2000776-001	MW3 R2000776-001	MW2 R2000776-002
13C3-PFBS	20-109	23		43
18O2-PFHxS	26-122	43		70
13C4-PFOS	25-121	67	82	74
13C4-PFBA	27-124	4*	4*	54
13C5-PFPeA	27-138	5*	6*	53
13C2-PFHxA	28-132	9*	11*	67
13C4-PFHpA	19-139	14*	16*	67
13C4-PFOA	22-130	25	28	82
13C5-PFNA	20-127	32		79
13C2-PFDA	24-125	60		83
13C2-PFUnDA	22-125	71		87
13C2-PFDoDA	19-122	59		69
13C2-PFTeDA	13-124	56		62
13C8-FOSA	18-109	48		52
D3-MeFOSAA	9-123	65		78
D5-EtFOSAA	12-126	72		68
13C2-6:2 FTS	10-226	275*	267*	206
13C2-8:2 FTS	10-202	457*	408*	134

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with an pound (#) indicate the control criteria is not acceptable.

Client: Leader Professional Services, Inc. **Service Request:** R2000776
Project: Tonawanda Bisonite Paint/235.198A
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Extraction Method: ALS SOP

Surrogate	Control Limits	MW2 DUP R2000776-003	Field Blank R2000776-004	Equipment Blank R2000776-005
13C3-PFBS	20-109	37	40	30
18O2-PFHxS	26-122	64	87	61
13C4-PFOS	25-121	70	93	78
13C4-PFBA	27-124	52	62	53
13C5-PFPeA	27-138	47	54	41
13C2-PFHxA	28-132	67	64	65
13C4-PFHpA	19-139	60	81	52
13C4-PFOA	22-130	80	87	77
13C5-PFNA	20-127	70	78	71
13C2-PFDA	24-125	80	90	79
13C2-PFUnDA	22-125	80	93	85
13C2-PFDoDA	19-122	65	79	72
13C2-PFTeDA	13-124	68	79	64
13C8-FOSA	18-109	56	70	51
D3-MeFOSAA	9-123	76	86	65
D5-EtFOSAA	12-126	71	91	63
13C2-6:2 FTS	10-226	167	83	68
13C2-8:2 FTS	10-202	117	89	76

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with an pound (#) indicate the control criteria is not acceptable.

Client: Leader Professional Services, Inc. **Service Request:** R2000776
Project: Tonawanda Bisonite Paint/235.198A
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Extraction Method: ALS SOP

Surrogate	Control Limits	Method Blank KQ2001501-04	Lab Control Sample KQ2001501-03	MW2 KQ2001501-01
13C3-PFBS	20-109	49	42	39
18O2-PFHxS	26-122	70	66	66
13C4-PFOS	25-121	76	77	73
13C4-PFBA	27-124	58	51	51
13C5-PFPeA	27-138	55	52	47
13C2-PFHxA	28-132	57	70	65
13C4-PFHpA	19-139	70	64	63
13C4-PFOA	22-130	85	79	77
13C5-PFNA	20-127	70	70	72
13C2-PFDA	24-125	81	78	74
13C2-PFUnDA	22-125	85	80	82
13C2-PFDoDA	19-122	74	66	66
13C2-PFTeDA	13-124	74	67	65
13C8-FOSA	18-109	65	54	53
D3-MeFOSAA	9-123	75	71	72
D5-EtFOSAA	12-126	75	68	68
13C2-6:2 FTS	10-226	75	73	158
13C2-8:2 FTS	10-202	88	77	107

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with an pound (#) indicate the control criteria is not acceptable.

Client: Leader Professional Services, Inc. **Service Request:** R2000776
Project: Tonawanda Bisonite Paint/235.198A
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M
Extraction Method: ALS SOP

Surrogate	Control Limits	MW2 KQ2001501-02
13C3-PFBS	20-109	38
18O2-PFHxS	26-122	65
13C4-PFOS	25-121	80
13C4-PFBA	27-124	54
13C5-PFPeA	27-138	46
13C2-PFHxA	28-132	64
13C4-PFHpA	19-139	68
13C4-PFOA	22-130	83
13C5-PFNA	20-127	77
13C2-PFDA	24-125	79
13C2-PFUnDA	22-125	78
13C2-PFDoDA	19-122	65
13C2-PFTeDA	13-124	64
13C8-FOSA	18-109	56
D3-MeFOSAA	9-123	75
D5-EtFOSAA	12-126	81
13C2-6:2 FTS	10-226	173
13C2-8:2 FTS	10-202	117

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with an pound (#) indicate the control criteria is not acceptable.

Client: Leader Professional Services, Inc. **Service Request:**R2000776
Project: Tonawanda Bisonite Paint/235.198A **Date Analyzed:**02/05/20 01:33

Internal Standard Area and RT SUMMARY

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS06\Data\200204_b4\200204_048 **Lab Code:**KQ2001639-01
Instrument ID: K-LCMS-06 **Analysis Lot:**668958
Analysis Method: PFC/537M **Signal ID:**1

		13C7-PFUnDA	
		Area	**RT**
	Result ==>	4,274,757	5.110
	Upper Limit ==>	8,549,514	6.11
	Lower Limit ==>	2,137,379	4.11
Associated Analyses			
Continuing Calibration Blank	KQ2001639-02	4991167	5.110
Lab Control Sample	KQ2001501-03	5110304	5.108
Method Blank	KQ2001501-04	4596683	5.109
MW3	R2000776-001	4105253	5.108
MW2	R2000776-002	5264586	5.107
MW2MS	KQ2001501-01	5001006	5.107
MW2DMS	KQ2001501-02	4618495	5.102
MW2 DUP	R2000776-003	4792087	5.108
Field Blank	R2000776-004	3979685	5.102
Equipment Blank	R2000776-005	4583293	5.104

Client: Leader Professional Services, Inc. **Service Request:** R2000776
Project: Tonawanda Bisonite Paint/235.198A **Date Analyzed:** 02/10/20 19:25

Internal Standard Area and RT SUMMARY

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS06\Data\200210_b2\200210_018 **Lab Code:** KQ2001983-01
Instrument ID: K-LCMS-06 **Analysis Lot:** 669558
Analysis Method: PFC/537M **Signal ID:** 1

	13C7-PFUnDA	
	Area	**RT**
Result ==>	3,949,033	5.117
Upper Limit ==>	7,898,066	6.12
Lower Limit ==>	1,974,517	4.12

Associated Analyses

Continuing Calibration Blank	KQ2001983-02	3913916	5.116
MW3	R2000776-001	4470638	5.111

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000776
Project:	Tonawanda Bisonite Paint/235.198A	**Date Collected:**	01/27/20
Sample Matrix:	Water	**Date Received:**	01/28/20
		Date Analyzed:	02/5/20
		Date Extracted:	02/3/20

Duplicate Matrix Spike Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Sample Name:	MW2	**Units:**	ng/L
Lab Code:	R2000776-002	**Basis:**	NA
Analysis Method:	PFC/537M		
Prep Method:	ALS SOP		

		Matrix Spike KQ2001501-01			Duplicate Matrix Spike KQ2001501-02					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perfluorobutane sulfonic acid (PFBS)	0.40 J	25.4	23.3	108	24.8	22.9	107	61-140	2	30
Perfluorohexane sulfonic acid (PFHxS)	ND U	24.5	23.9	102	24.5	23.6	104	69-144	<1	30
Perfluoroheptane sulfonic acid (PFHpS)	ND U	28.5	25.0	114	30.1	24.6	122	62-178	5	30
Perfluorooctane sulfonic acid (PFOS)	1.5 J	26.6	24.4	103	25.7	24.0	101	71-139	4	30
Perfluorodecane sulfonic acid (PFDS)	ND U	24.6	25.3	97	20.9	24.9	84	69-146	16	30
Perfluorobutanoic acid (PFBA)	3.4 J	29.1	26.2	98	27.8	25.8	94	51-157	5	30
Perfluoropentanoic acid (PFPeA)	ND U	26.6	26.2	101	25.2	25.8	98	67-127	5	30
Perfluorohexanoic acid (PFHxA)	ND U	26.7	26.2	102	26.4	25.8	102	71-138	1	30
Perfluoroheptanoic acid (PFHpA)	0.73 J	26.6	26.2	99	26.6	25.8	100	72-133	<1	30
Perfluorooctanoic acid (PFOA)	1.4 J	24.8	26.2	89	24.0	25.8	88	74-146	3	30
Perfluorononanoic acid (PFNA)	ND U	26.1	26.2	100	24.9	25.8	96	69-148	5	30
Perfluorodecanoic acid (PFDA)	ND U	25.4	26.2	97	23.0	25.8	89	73-136	10	30
Perfluoroundecanoic acid (PFUnDA)	ND U	25.7	26.2	98	25.5	25.8	99	76-134	1	30
Perfluorododecanoic acid (PFDoDA)	ND U	24.0	26.2	92	24.0	25.8	93	71-138	<1	30
Perfluorotridecanoic acid (PFTrDA)	ND U	24.5	26.2	93	24.3	25.8	94	65-140	<1	30
Perfluorotetradecanoic acid (PFTeDA)	ND U	24.1	26.2	92	24.2	25.8	94	63-139	<1	30
Perfluorooctane sulfonamide (FOSA)	ND U	26.4	26.2	100	27.4	25.8	106	64-135	4	30
N-Methyl perfluorooctane sulfonamidoacetic acid	ND U	28.3	26.2	108	26.1	25.8	101	69-151	8	30
N-Ethyl perfluorooctane sulfonamidoacetic acid	ND U	28.7	26.2	109	22.6	25.8	88	58-155	24	30
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ND U	25.9	24.9	104	26.5	24.5	108	71-142	2	30
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	ND U	23.6	25.2	94	21.6	24.8	87	69-137	9	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000776
Project:	Tonawanda Bisonite Paint/235.198A	**Date Analyzed:**	02/05/20
Sample Matrix:	Water	**Date Extracted:**	02/03/20

Lab Control Sample Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method:	PFC/537M	**Units:**	ng/L
Prep Method:	ALS SOP	**Basis:**	NA
		Analysis Lot:	668958

Lab Control Sample
KQ2001501-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	31.9	30.4	105	71-142
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	28.5	30.7	93	69-137
N-Ethyl perfluorooctane sulfonamidoacetic acid	38.7	32.0	121	58-155
N-Methyl perfluorooctane sulfonamidoacetic acid	35.5	32.0	111	69-151
Perfluorobutane sulfonic acid (PFBS)	32.8	28.4	115	61-140
Perfluorobutanoic acid (PFBA)	32.7	32.0	102	51-157
Perfluorodecane sulfonic acid (PFDS)	30.9	30.9	100	69-146
Perfluorodecanoic acid (PFDA)	30.7	32.0	96	73-136
Perfluorododecanoic acid (PFDoDA)	28.7	32.0	90	71-138
Perfluoroheptane sulfonic acid (PFHpS)	38.0	30.5	125	62-178
Perfluoroheptanoic acid (PFHpA)	34.2	32.0	107	72-133
Perfluorohexane sulfonic acid (PFHxS)	28.6	29.2	98	69-144
Perfluorohexanoic acid (PFHxA)	32.2	32.0	101	71-138
Perfluorononanoic acid (PFNA)	30.5	32.0	95	69-148
Perfluorooctane sulfonamide (FOSA)	37.1	32.0	116	64-135
Perfluorooctane sulfonic acid (PFOS)	30.1	29.7	101	71-139
Perfluorooctanoic acid (PFOA)	28.0	32.0	87	74-146
Perfluoropentanoic acid (PFPeA)	32.7	32.0	102	67-127
Perfluorotetradecanoic acid (PFTeDA)	30.0	32.0	94	63-139
Perfluorotridecanoic acid (PFTrDA)	29.8	32.0	93	65-140
Perfluoroundecanoic acid (PFUnDA)	30.5	32.0	95	76-134

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000776
Project:	Tonawanda Bisonite Paint/235.198A	**Date Analyzed:**	02/05/20 02:05
Sample Matrix:	Water	**Date Extracted:**	02/03/20

Method Blank Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Sample Name:	Method Blank	**Instrument ID:**	K-LCMS-06
Lab Code:	KQ2001501-04	**File ID:**	J:\LCMS06\Data\200204_b4\200204_051
Analysis Method:	PFC/537M	**Analysis Lot:**	668958,669558
Prep Method:	ALS SOP	**Extraction Lot:**	353103

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	KQ2001501-03	J:\LCMS06\Data\200204_b4\200204_050	02/05/20 01:54
MW3	R2000776-001	J:\LCMS06\Data\200204_b4\200204_052	02/05/20 02:15
MW2	R2000776-002	J:\LCMS06\Data\200204_b4\200204_053	02/05/20 02:26
MW2MS	KQ2001501-01	J:\LCMS06\Data\200204_b4\200204_054	02/05/20 02:36
MW2DMS	KQ2001501-02	J:\LCMS06\Data\200204_b4\200204_055	02/05/20 02:47
MW2 DUP	R2000776-003	J:\LCMS06\Data\200204_b4\200204_056	02/05/20 02:57
Field Blank	R2000776-004	J:\LCMS06\Data\200204_b4\200204_057	02/05/20 03:08
Equipment Blank	R2000776-005	J:\LCMS06\Data\200204_b4\200204_058	02/05/20 03:18
MW3	R2000776-001	J:\LCMS06\Data\200210_b2\200210_026	02/10/20 20:52

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000776
Project:	Tonawanda Bisonite Paint/235.198A	**Date Analyzed:**	02/05/20 01:54
Sample Matrix:	Water	**Date Extracted:**	02/03/20

Lab Control Sample Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Sample Name:	Lab Control Sample	**Instrument ID:**	K-LCMS-06
Lab Code:	KQ2001501-03	**File ID:**	J:\LCMS06\Data\200204_b4\200204_050
Analysis Method:	PFC/537M	**Analysis Lot:**	668958,669558
Prep Method:	ALS SOP	**Extraction Lot:**	353103

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	KQ2001501-04	J:\LCMS06\Data\200204_b4\200204_051	02/05/20 02:05
MW3	R2000776-001	J:\LCMS06\Data\200204_b4\200204_052	02/05/20 02:15
MW2	R2000776-002	J:\LCMS06\Data\200204_b4\200204_053	02/05/20 02:26
MW2MS	KQ2001501-01	J:\LCMS06\Data\200204_b4\200204_054	02/05/20 02:36
MW2DMS	KQ2001501-02	J:\LCMS06\Data\200204_b4\200204_055	02/05/20 02:47
MW2 DUP	R2000776-003	J:\LCMS06\Data\200204_b4\200204_056	02/05/20 02:57
Field Blank	R2000776-004	J:\LCMS06\Data\200204_b4\200204_057	02/05/20 03:08
Equipment Blank	R2000776-005	J:\LCMS06\Data\200204_b4\200204_058	02/05/20 03:18
MW3	R2000776-001	J:\LCMS06\Data\200210_b2\200210_026	02/10/20 20:52

Client: Leader Professional Services, Inc. **Service Request:** R2000776
Project: Tonawanda Bisonite Paint **Calibration Date:** 12/27/2019

Initial Calibration Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC1900567 **Signal ID:** 1
Instrument ID: K-LCMS-06

#	Lab Code	Sample Name	File Location	Acquisition Date
01	KC1900567-01	0.05 PPB ICAL	191227_008	12/27/2019 10:19
02	KC1900567-02	0.10 PPB ICAL	191227_009	12/27/2019 10:30
03	KC1900567-03	0.50 PPB ICAL	191227_010	12/27/2019 10:40
04	KC1900567-04	1.0 PPB ICAL	191227_011	12/27/2019 10:50
05	KC1900567-05	5.0 PPB ICAL	191227_012	12/27/2019 11:01
06	KC1900567-06	10.0 PPB ICAL	191227_013	12/27/2019 11:11
07	KC1900567-07	15.0 PPB ICAL	191227_015	12/27/2019 11:33

Analyte

13C2-6:2 FTS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.06767	02	5.0000	0.06364	03	5.0000	0.07007	04	5.0000	0.06761
05	5.0000	0.07632	06	5.0000	0.07691	07	5.0000	0.07562			

13C2-8:2 FTS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.05062	02	5.0000	0.04933	03	5.0000	0.05155	04	5.0000	0.05149
05	5.0000	0.05574	06	5.0000	0.05833	07	5.0000	0.05391			

13C2-PFDA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.6912	02	5.0000	0.6811	03	5.0000	0.6785	04	5.0000	0.6812
05	5.0000	0.7135	06	5.0000	0.6934	07	5.0000	0.6603			

13C2-PFDoDA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.9703	02	5.0000	0.9764	03	5.0000	0.9657	04	5.0000	0.9131
05	5.0000	1.039	06	5.0000	1.018	07	5.0000	0.9474			

13C2-PFHxA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	1.025	02	5.0000	1.066	03	5.0000	1.024	04	5.0000	1.007
05	5.0000	1.094	06	5.0000	1.106	07	5.0000	1.053			

13C2-PFTeDA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.8093	02	5.0000	0.7816	03	5.0000	0.7776	04	5.0000	0.7543
05	5.0000	0.8703	06	5.0000	0.8816	07	5.0000	0.8793			

13C2-PFUnDA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.7731	02	5.0000	0.7469	03	5.0000	0.7556	04	5.0000	0.7188
05	5.0000	0.7476	06	5.0000	0.7255	07	5.0000	0.7255			

13C3-PFBS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.3581	02	5.0000	0.3438	03	5.0000	0.3481	04	5.0000	0.3458

Client: Leader Professional Services, Inc. **Service Request:** R2000776
Project: Tonawanda Bisonite Paint **Calibration Date:** 12/27/2019

Initial Calibration Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC1900567 **Signal ID:** 1
Instrument ID: K-LCMS-06

Analyte

13C3-PFBS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
05	5.0000	0.3871	06	5.0000	0.3775	07	5.0000	0.3589			

13C4-PFBA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.9929	02	5.0000	1.001	03	5.0000	1.027	04	5.0000	0.9806
05	5.0000	1.092	06	5.0000	1.1	07	5.0000	1.061			

13C4-PFHpA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	1.025	02	5.0000	0.9737	03	5.0000	0.9604	04	5.0000	0.9044
05	5.0000	1.14	06	5.0000	1.131	07	5.0000	0.9678			

13C4-PFOA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	1.078	02	5.0000	1.061	03	5.0000	1.109	04	5.0000	1.071
05	5.0000	1.146	06	5.0000	1.131	07	5.0000	1.029			

13C4-PFOS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.181	02	5.0000	0.1788	03	5.0000	0.1821	04	5.0000	0.1781
05	5.0000	0.1922	06	5.0000	0.1906	07	5.0000	0.1744			

13C5-PFNA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.7846	02	5.0000	0.8022	03	5.0000	0.7356	04	5.0000	0.7618
05	5.0000	0.8847	06	5.0000	0.8927	07	5.0000	0.8003			

13C5-PFPeA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.4902	02	5.0000	0.4997	03	5.0000	0.4998	04	5.0000	0.4796
05	5.0000	0.5327	06	5.0000	0.5341	07	5.0000	0.501			

13C8-FOSA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.4533	02	5.0000	0.4391	03	5.0000	0.4578	04	5.0000	0.4487
05	5.0000	0.4769	06	5.0000	0.5019	07	5.0000	0.4809			

18O2-PFHxS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.1698	02	5.0000	0.1545	03	5.0000	0.1566	04	5.0000	0.145
05	5.0000	0.1919	06	5.0000	0.1874	07	5.0000	0.1538			

6:2 Fluorotelomer sulfonic acid (6:2 FTS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0476	1.21	02	0.0951	1.383	03	0.4756	1.353	04	0.9512	1.255
05	4.7558	1.179	06	9.5117	1.199	07	14.2676	1.115			

Client: Leader Professional Services, Inc. **Service Request:** R2000776
Project: Tonawanda Bisonite Paint **Calibration Date:** 12/27/2019

Initial Calibration Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC1900567 **Signal ID:** 1
Instrument ID: K-LCMS-06

Analyte

8:2 Fluorotelomer sulfonic acid (8:2 FTS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0480	0.9383	02	0.0960	0.9569	03	0.4800	0.8679	04	0.9600	0.8319
05	4.8002	0.821	06	9.6004	0.7934	07	14.4007	0.7782			

D3-MeFOSAA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.1335	02	5.0000	0.1284	03	5.0000	0.1248	04	5.0000	0.1293
05	5.0000	0.1456	06	5.0000	0.1478	07	5.0000	0.1428			

D5-EtFOSAA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.1094	02	5.0000	0.1084	03	5.0000	0.1039	04	5.0000	0.1094
05	5.0000	0.1296	06	5.0000	0.1248	07	5.0000	0.1119			

N-Ethyl perfluorooctane sulfonamidoacetic acid

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	0.2594	02	0.1000	0.4609	03	0.5000	0.5478	04	1.0000	0.5646
05	5.0000	0.5547	06	10.0000	0.5773						

N-Methyl perfluorooctane sulfonamidoacetic acid

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	0.5695	02	0.1000	0.4311	03	0.5000	0.7026	04	1.0000	0.5569
05	5.0000	0.6002	06	10.0000	0.6169						

Perfluorobutane sulfonic acid (PFBS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0444	1.281	02	0.0887	1.229	03	0.4437	1.268	04	0.8874	1.235
05	4.4368	1.185	06	8.8737	1.261	07	13.3106	1.266			

Perfluorobutanoic acid (PFBA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.106	02	0.1000	1.005	03	0.5000	0.984	04	1.0000	0.9739
05	5.0000	0.9947	06	10.0000	1.035	07	15.0000	1.049			

Perfluorodecane sulfonic acid (PFDS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0482	0.8345	02	0.0965	0.6672	03	0.4823	0.7853	04	0.9647	0.8215
05	4.8233	0.8287	06	9.6467	0.8623	07	14.4700	0.8566			

Perfluorodecanoic acid (PFDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.324	02	0.1000	1.164	03	0.5000	1.076	04	1.0000	1.056
05	5.0000	1.052	06	10.0000	1.07	07	15.0000	1.112			

Perfluorododecanoic acid (PFDoDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	0.8942	02	0.1000	0.6047	03	0.5000	0.6148	04	1.0000	0.5852
05	5.0000	0.6016	06	10.0000	0.6265	07	15.0000	0.6233			

Client: Leader Professional Services, Inc. **Service Request:** R2000776
Project: Tonawanda Bisonite Paint **Calibration Date:** 12/27/2019

Initial Calibration Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC1900567 **Signal ID:** 1
Instrument ID: K-LCMS-06

Analyte

Perfluoroheptane sulfonic acid (PFHpS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0477	1.334	02	0.0953	1.418	03	0.4767	1.435	04	0.9534	1.458
05	4.7672	1.19	06	9.5344	1.241	07	14.3016	1.403			

Perfluoroheptanoic acid (PFHpA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.212	02	0.1000	1.105	03	0.5000	0.9647	04	1.0000	0.9654
05	5.0000	0.9753	06	10.0000	0.9761	07	15.0000	0.9478			

Perfluorohexane sulfonic acid (PFHxS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	0.0913	1.161	03	0.4565	1.409	04	0.9131	1.385	05	4.5654	1.25
06	9.1308	1.34	07	13.6961	1.423						

Perfluorohexanoic acid (PFHxA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.56	02	0.1000	1.173	03	0.5000	1.213	04	1.0000	1.178
05	5.0000	1.171	06	10.0000	1.251	07	15.0000	1.27			

Perfluorononanoic acid (PFNA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.205	02	0.1000	1.248	03	0.5000	1.109	04	1.0000	0.9453
05	5.0000	0.9597	06	10.0000	1.032	07	15.0000	1.067			

Perfluorooctane sulfonamide (FOSA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	0.1000	1.215	03	0.5000	1.1	04	1.0000	1.114	05	5.0000	1.108
06	10.0000	1.115	07	15.0000	1.121						

Perfluorooctane sulfonic acid (PFOS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0465	0.9919	02	0.0929	0.9464	03	0.4646	0.8673	04	0.9292	0.8282
05	4.6461	0.8303	06	9.2923	0.8731	07	13.9384	0.8953			

Perfluorooctanoic acid (PFOA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.83	02	0.1000	1.508	03	0.5000	1.32	04	1.0000	1.275
05	5.0000	1.281	06	10.0000	1.328	07	15.0000	1.355			

Perfluoropentanoic acid (PFPeA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	6.999	02	0.1000	4.043	03	0.5000	2.654	04	1.0000	2.347
05	5.0000	2.174	06	10.0000	2.231	07	15.0000	2.274			

Perfluorotetradecanoic acid (PFTeDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.905	02	0.1000	1.118	03	0.5000	0.6527	04	1.0000	0.5837
05	5.0000	0.4977	06	10.0000	0.5148	07	15.0000	0.5132			

Client: Leader Professional Services, Inc. **Service Request:** R2000776
Project: Tonawanda Bisonite Paint **Calibration Date:** 12/27/2019

Initial Calibration Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC1900567 **Signal ID:** 1
Instrument ID: K-LCMS-06

Analyte

Perfluorotridecanoic acid (PFTrDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.529	02	0.1000	1.322	03	0.5000	1.144	04	1.0000	1.131
05	5.0000	1.1	06	10.0000	1.12	07	15.0000	1.043			

Perfluoroundecanoic acid (PFUnDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.284	02	0.1000	1.007	03	0.5000	0.8334	04	1.0000	0.8435
05	5.0000	0.8497	06	10.0000	0.8786	07	15.0000	0.872			

Client: Leader Professional Services, Inc. **Service Request:** R2000776
Project: Tonawanda Bisonite Paint **Calibration Date:** 12/27/2019

Initial Calibration Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC1900567 **Signal ID:** 1
Instrument ID: K-LCMS-06

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
13C2-6:2 FTS	SURR	Average RF	% RSD	7.3	≤20	0.07112	
13C2-8:2 FTS	SURR	Average RF	% RSD	6.0	≤20	0.053	
13C2-PFDA	SURR	Average RF	% RSD	2.4	≤20	0.6856	
13C2-PFDoDA	SURR	Average RF	% RSD	4.3	≤20	0.9757	
13C2-PFHxA	SURR	Average RF	% RSD	3.6	≤20	1.053	
13C2-PFTeDA	SURR	Average RF	% RSD	6.6	≤20	0.822	
13C2-PFUnDA	SURR	Average RF	% RSD	2.6	≤20	0.7419	
13C3-PFBS	SURR	Average RF	% RSD	4.6	≤20	0.3599	
13C4-PFBA	SURR	Average RF	% RSD	4.7	≤20	1.037	
13C4-PFHpA	SURR	Average RF	% RSD	8.8	≤20	1.015	
13C4-PFOA	SURR	Average RF	% RSD	3.8	≤20	1.089	
13C4-PFOS	SURR	Average RF	% RSD	3.6	≤20	0.1825	
13C5-PFNA	SURR	Average RF	% RSD	7.3	≤20	0.8088	
13C5-PFPeA	SURR	Average RF	% RSD	4.1	≤20	0.5053	
13C8-FOSA	SURR	Average RF	% RSD	4.7	≤20	0.4655	
18O2-PFHxS	SURR	Average RF	% RSD	10.9	≤20	0.1656	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	TRG	Average RF	% RSD	7.7	≤20	1.242	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	TRG	Average RF	% RSD	8.1	≤20	0.8554	
D3-MeFOSAA	SURR	Average RF	% RSD	6.8	≤20	0.136	
D5-EtFOSAA	SURR	Average RF	% RSD	8.3	≤20	0.1139	
N-Ethyl perfluorooctane sulfonamidoacetic acid	TRG	Linear	R2	0.9986	≥0.99	0.4941	
N-Methyl perfluorooctane sulfonamidoacetic acid	TRG	Linear	R2	0.9982	≥0.99	0.5795	
Perfluorobutane sulfonic acid (PFBS)	TRG	Average RF	% RSD	2.6	≤20	1.246	
Perfluorobutanoic acid (PFBA)	TRG	Average RF	% RSD	4.5	≤20	1.021	
Perfluorodecane sulfonic acid (PFDS)	TRG	Average RF	% RSD	8.3	≤20	0.808	
Perfluorodecanoic acid (PFDA)	TRG	Linear	R2	0.9993	≥0.99	1.122	
Perfluorododecanoic acid (PFDoDA)	TRG	Linear	R2	0.9995	≥0.99	0.65	
Perfluoroheptane sulfonic acid (PFHpS)	TRG	Average RF	% RSD	7.6	≤20	1.354	
Perfluoroheptanoic acid (PFHpA)	TRG	Linear	R2	0.9997	≥0.99	1.021	
Perfluorohexane sulfonic acid (PFHxS)	TRG	Average RF	% RSD	7.7	≤20	1.328	
Perfluorohexanoic acid (PFHxA)	TRG	Linear	R2	0.9936	≥0.99	1.26	

Client: Leader Professional Services, Inc. **Service Request:** R2000776
Project: Tonawanda Bisonite Paint **Calibration Date:** 12/27/2019

Initial Calibration Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC1900567 **Signal ID:** 1
Instrument ID: K-LCMS-06

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Perfluorononanoic acid (PFNA)	TRG	Linear	R2	0.9936	≥0.99	1.081	
Perfluorooctane sulfonamide (FOSA)	TRG	Average RF	% RSD	3.8	≤20	1.129	
Perfluorooctane sulfonic acid (PFOS)	TRG	Average RF	% RSD	6.8	≤20	0.8903	
Perfluorooctanoic acid (PFOA)	TRG	Linear	R2	0.9994	≥0.99	1.414	
Perfluoropentanoic acid (PFPeA)	TRG	Linear	R2	0.9994	≥0.99	3.246	
Perfluorotetradecanoic acid (PFTeDA)	TRG	Linear	R2	0.9945	≥0.99	0.8264	
Perfluorotridecanoic acid (PFTrDA)	TRG	Linear	R2	0.9993	≥0.99	1.198	
Perfluoroundecanoic acid (PFUnDA)	TRG	Linear	R2	0.9978	≥0.99	0.9383	

Client: Leader Professional Services, Inc. **Service Request:** R2000776
Project: Tonawanda Bisonite Paint **Calibration Date:** 2/6/2020

Initial Calibration Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC2000066 **Signal ID:** 1
Instrument ID: K-LCMS-06

#	Lab Code	Sample Name	File Location	Acquisition Date
01	KC2000066-01	0.05 PPB ICAL	200206_026	02/06/2020 19:36
02	KC2000066-02	0.10 PPB ICAL	200206_027	02/06/2020 19:47
03	KC2000066-03	0.50 PPB ICAL	200206_028	02/06/2020 19:58
04	KC2000066-04	1.0 PPB ICAL	200206_029	02/06/2020 20:08
05	KC2000066-05	5.0 PPB ICAL	200206_030	02/06/2020 20:19
06	KC2000066-06	10.0 PPB ICAL	200206_031	02/06/2020 20:30
07	KC2000066-07	15.0 PPB ICAL	200206_033	02/06/2020 20:51

Analyte

13C2-6:2 FTS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.07812	02	5.0000	0.09658	03	5.0000	0.07818	04	5.0000	0.07587
05	5.0000	0.07212	06	5.0000	0.07855	07	5.0000	0.08045			

13C2-8:2 FTS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.06187	02	5.0000	0.08036	03	5.0000	0.06263	04	5.0000	0.05662
05	5.0000	0.05838	06	5.0000	0.05688	07	5.0000	0.05997			

13C2-PFHxA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.9864	02	5.0000	1.175	03	5.0000	0.9944	04	5.0000	0.9538
05	5.0000	0.8681	06	5.0000	0.9104	07	5.0000	0.9149			

13C4-PFBA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.828	02	5.0000	1.043	03	5.0000	0.8397	04	5.0000	0.8067
05	5.0000	0.8298	06	5.0000	0.8507	07	5.0000	0.8954			

13C4-PFHpA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.6985	02	5.0000	0.9898	03	5.0000	0.8236	04	5.0000	0.7071
05	5.0000	0.8251	06	5.0000	0.7586	07	5.0000	0.8556			

13C4-PFOA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.9572	02	5.0000	1.244	03	5.0000	0.981	04	5.0000	0.9685
05	5.0000	0.9286	06	5.0000	0.9235	07	5.0000	0.9187			

13C4-PFOS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.1255	02	5.0000	0.1546	03	5.0000	0.1256	04	5.0000	0.1244
05	5.0000	0.1238	06	5.0000	0.132	07	5.0000	0.1295			

13C5-PFPeA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.4464	02	5.0000	0.5713	03	5.0000	0.4588	04	5.0000	0.451

Client: Leader Professional Services, Inc. **Service Request:** R2000776
Project: Tonawanda Bisonite Paint **Calibration Date:** 2/6/2020

Initial Calibration Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC2000066 **Signal ID:** 1
Instrument ID: K-LCMS-06

Analyte

13C5-PFPeA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
05	5.0000	0.4538	06	5.0000	0.4571	07	5.0000	0.4804			

6:2 Fluorotelomer sulfonic acid (6:2 FTS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0476	1.059	02	0.0951	0.9551	03	0.4756	1.139	04	0.9512	0.9877
05	4.7558	0.9504	06	9.5117	0.8954	07	14.2676	0.7972			

8:2 Fluorotelomer sulfonic acid (8:2 FTS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0480	1.003	02	0.0960	0.7703	03	0.4800	0.8831	04	0.9600	0.935
05	4.8002	0.86	06	9.6004	0.8544	07	14.4007	0.7679			

Perfluorobutanoic acid (PFBA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	0.9106	02	0.1000	0.8719	03	0.5000	0.8835	04	1.0000	0.8843
05	5.0000	0.9137	06	10.0000	0.9047	07	15.0000	0.896			

Perfluoroheptanoic acid (PFHpA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.257	02	0.1000	1.082	03	0.5000	0.9887	04	1.0000	1.003
05	5.0000	0.9803	06	10.0000	0.9834	07	15.0000	0.9947			

Perfluorohexanoic acid (PFHxA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.288	02	0.1000	1.013	03	0.5000	0.8672	04	1.0000	0.8803
05	5.0000	0.9156	06	10.0000	0.8842	07	15.0000	0.8739			

Perfluorooctane sulfonic acid (PFOS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0465	0.6119	02	0.0929	0.8864	03	0.4646	0.7209	04	0.9292	0.6938
05	4.6461	0.7231	06	9.2923	0.7065	07	13.9384	0.7205			

Perfluorooctanoic acid (PFOA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.244	02	0.1000	1.106	03	0.5000	0.9773	04	1.0000	0.9603
05	5.0000	0.9782	06	10.0000	0.9905	07	15.0000	0.9589			

Perfluoropentanoic acid (PFPeA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	0.1000	2.51	03	0.5000	2.129	04	1.0000	1.994	05	5.0000	1.972
06	10.0000	1.986	07	15.0000	1.942						

Client: Leader Professional Services, Inc. **Service Request:** R2000776
Project: Tonawanda Bisonite Paint **Calibration Date:** 2/6/2020

Initial Calibration Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC2000066 **Signal ID:** 1
Instrument ID: K-LCMS-06

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
13C2-6:2 FTS	SURR	Average RF	% RSD	9.7	≤20	0.07998	
13C2-8:2 FTS	SURR	Average RF	% RSD	13.2	≤20	0.06239	
13C2-PFHxA	SURR	Average RF	% RSD	10.3	≤20	0.9718	
13C4-PFBA	SURR	Average RF	% RSD	9.3	≤20	0.8704	
13C4-PFHpA	SURR	Average RF	% RSD	12.4	≤20	0.8083	
13C4-PFOA	SURR	Average RF	% RSD	11.7	≤20	0.9889	
13C4-PFOS	SURR	Average RF	% RSD	8.4	≤20	0.1308	
13C5-PFPeA	SURR	Average RF	% RSD	9.3	≤20	0.4741	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	TRG	Average RF	% RSD	11.4	≤20	0.9691	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	TRG	Average RF	% RSD	9.7	≤20	0.8677	
Perfluorobutanoic acid (PFBA)	TRG	Average RF	% RSD	1.7	≤20	0.895	
Perfluoroheptanoic acid (PFHpA)	TRG	Linear	R2	0.9999	≥0.99	1.041	
Perfluorohexanoic acid (PFHxA)	TRG	Linear	R2	0.9997	≥0.99	0.9603	
Perfluorooctane sulfonic acid (PFOS)	TRG	Average RF	% RSD	11.3	≤20	0.7233	
Perfluorooctanoic acid (PFOA)	TRG	Linear	R2	0.9997	≥0.99	1.031	
Perfluoropentanoic acid (PFPeA)	TRG	Linear	R2	0.9999	≥0.99	2.089	

Client: Leader Professional Services, Inc. **Service Request:** R2000776
Project: Tonawanda Bisonite Paint **Calibration Date:** 12/27/2019

Initial Calibration Verification Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC1900567 **Signal ID:** 1
Instrument ID: K-LCMS-06

#	Lab Code	Sample Name	File Location	Acquisition Date
08	KC1900567-08	1.0 PPB ICV 10:2 FTS	191227_017	12/27/2019 11:54
09	KC1900567-09	1.0 PPB ICV NO10:2 FTS	191227_019	12/27/2019 12:15

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Perfluorobutane sulfonic acid (PFBS)	0.887	0.896	1.246E0	1.259E0	1.02	±30	Average RF
Perfluorohexane sulfonic acid (PFHxS)	0.913	0.925	1.328E0	1.346E0	1.34	±30	Average RF
Perfluoroheptane sulfonic acid (PFHpS)	0.953	0.888	1.354E0	1.262E0	-6.827	±30	Average RF
Perfluorooctane sulfonic acid (PFOS)	0.929	0.934	8.903E-1	8.946E-1	0.475	±30	Average RF
Perfluorodecane sulfonic acid (PFDS)	0.965	1.11	8.08E-1	9.302E-1	15.12	±30	Average RF
Perfluorobutanoic acid (PFBA)	1.00	0.959	1.021E0	9.789E-1	-4.136	±30	Average RF
Perfluoropentanoic acid (PFPeA)	1.00	0.964	3.246E0	2.353E0	-3.637	±30	Linear
Perfluorohexanoic acid (PFHxA)	1.00	1.02	1.26E0	1.233E0	2.33	±30	Linear
Perfluoroheptanoic acid (PFHpA)	1.00	0.949	1.021E0	9.234E-1	-5.084	±30	Linear
Perfluorooctanoic acid (PFOA)	1.00	0.956	1.414E0	1.288E0	-4.393	±30	Linear
Perfluorononanoic acid (PFNA)	1.00	0.935	1.081E0	9.7E-1	-6.522	±30	Linear
Perfluorodecanoic acid (PFDA)	1.00	0.986	1.122E0	1.061E0	-1.405	±30	Linear
Perfluoroundecanoic acid (PFUnDA)	1.00	1.02	9.383E-1	8.794E-1	2.42	±30	Linear
Perfluorododecanoic acid (PFDoDA)	1.00	1.08	6.5E-1	6.76E-1	8.24	±30	Linear
Perfluorotridecanoic acid (PFTrDA)	1.00	0.978	1.198E0	1.091E0	-2.248	±30	Linear
Perfluorotetradecanoic acid (PFTeDA)	1.00	0.983	8.264E-1	5.592E-1	-1.681	±30	Linear
Perfluorooctane sulfonamide (FOSA)	1.00	0.980	1.129E0	1.106E0	-1.990	±30	Average RF
N-Methyl perfluorooctane sulfonamidoacetic acid	1.00	1.08	5.795E-1	6.553E-1	8.08	±30	Linear
N-Ethyl perfluorooctane sulfonamidoacetic acid	1.00	1.26	4.941E-1	7.127E-1	25.94	±30	Linear
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	0.951	1.02	1.242E0	1.327E0	6.81	±30	Average RF
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	0.960	0.949	8.554E-1	8.455E-1	-1.159	±30	Average RF

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
13C3-PFBS	5.00	4.80	3.599E-1	3.453E-1	-4.057	±30	Average RF
18O2-PFHxS	5.00	5.38	1.656E-1	1.782E-1	7.61	±30	Average RF
13C4-PFOS	5.00	4.54	1.825E-1	1.658E-1	-9.145	±30	Average RF
13C4-PFBA	5.00	4.62	1.037E0	9.585E-1	-7.538	±30	Average RF
13C5-PFPeA	5.00	4.71	5.053E-1	4.761E-1	-5.778	±30	Average RF
13C2-PFHxA	5.00	4.55	1.053E0	9.586E-1	-9.008	±30	Average RF
13C4-PFHpA	5.00	5.48	1.015E0	1.111E0	9.51	±30	Average RF

Client: Leader Professional Services, Inc. **Service Request:** R2000776
Project: Tonawanda Bisonite Paint **Calibration Date:** 12/27/2019

Initial Calibration Verification Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC1900567 **Signal ID:** 1
Instrument ID: K-LCMS-06

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
13C4-PFOA	5.00	5.00	1.089E0	1.089E0	-0.052	±30	Average RF
13C5-PFNA	5.00	4.92	8.088E-1	7.957E-1	-1.621	±30	Average RF
13C2-PFDA	5.00	5.03	6.856E-1	6.894E-1	0.551	±30	Average RF
13C2-PFUnDA	5.00	4.78	7.419E-1	7.088E-1	-4.457	±30	Average RF
13C2-PFDoDA	5.00	4.66	9.757E-1	9.093E-1	-6.809	±30	Average RF
13C2-PFTeDA	5.00	4.91	8.22E-1	8.069E-1	-1.833	±30	Average RF
13C8-FOSA	5.00	4.76	4.655E-1	4.428E-1	-4.884	±30	Average RF
D3-MeFOSAA	5.00	4.70	1.36E-1	1.278E-1	-6.045	±30	Average RF
D5-EtFOSAA	5.00	4.80	1.139E-1	1.093E-1	-4.015	±30	Average RF
13C2-6:2 FTS	5.00	4.98	7.112E-2	7.088E-2	-0.342	±30	Average RF
13C2-8:2 FTS	5.00	4.95	5.3E-2	5.242E-2	-1.094	±30	Average RF
13C2-8:2 FTS	5.00	4.79	5.3E-2	5.077E-2	-4.199	±30	Average RF

Client: Leader Professional Services, Inc. **Service Request:** R2000776
Project: Tonawanda Bisonite Paint **Calibration Date:** 2/6/2020

Initial Calibration Verification Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC2000066 **Signal ID:** 1
Instrument ID: K-LCMS-06

#	Lab Code	Sample Name	File Location	Acquisition Date
08	KC2000066-08	1.0 PPB ICV	200206_035	02/06/2020 21:13

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Perfluorooctane sulfonic acid (PFOS)	0.929	0.825	7.233E-1	6.422E-1	-11.209	±30	Average RF
Perfluorobutanoic acid (PFBA)	1.00	0.947	8.95E-1	8.474E-1	-5.314	±30	Average RF
Perfluoropentanoic acid (PFPeA)	1.00	0.923	2.089E0	1.865E0	-7.713	±30	Linear
Perfluorohexanoic acid (PFHxA)	1.00	0.951	9.603E-1	8.544E-1	-4.928	±30	Linear
Perfluoroheptanoic acid (PFHpA)	1.00	0.900	1.041E0	9.0E-1	-9.981	±30	Linear
Perfluorooctanoic acid (PFOA)	1.00	0.914	1.031E0	8.952E-1	-8.612	±30	Linear
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	0.951	0.982	9.691E-1	1.001E0	3.25	±30	Average RF
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	0.960	0.954	8.677E-1	8.625E-1	-0.602	±30	Average RF

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
13C4-PFOS	5.00	5.29	1.308E-1	1.383E-1	5.76	±30	Average RF
13C4-PFBA	5.00	4.83	8.704E-1	8.402E-1	-3.473	±30	Average RF
13C5-PFPeA	5.00	5.12	4.741E-1	4.851E-1	2.32	±30	Average RF
13C2-PFHxA	5.00	5.05	9.718E-1	9.819E-1	1.03	±30	Average RF
13C4-PFHpA	5.00	5.80	8.083E-1	9.384E-1	16.09	±30	Average RF
13C4-PFOA	5.00	5.11	9.889E-1	1.01E0	2.11	±30	Average RF
13C2-6:2 FTS	5.00	4.74	7.998E-2	7.575E-2	-5.293	±30	Average RF
13C2-8:2 FTS	5.00	4.85	6.239E-2	6.052E-2	-2.986	±30	Average RF

Client: Leader Professional Services, Inc. **Service Request:** R2000776
Project: Tonawanda Bisonite Paint/235.198A **Date Analyzed:** 02/05/20 01:33

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M **Calibration Date:** 12/27/2019
File ID: J:\LCMS06\Data\200204_b4\200204_048 **Calibration ID:** KC1900567
Signal ID: 1 **Analysis Lot:** 668958
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Perfluorobutane sulfonic acid (PFBS)	0.887	0.949	1.2463	1.3328	107	NA	±30	Average RF
Perfluorohexane sulfonic acid (PFHxS)	0.913	0.945	1.3281	1.3744	103	NA	±30	Average RF
Perfluoroheptane sulfonic acid (PFHpS)	0.953	1.10	1.354	1.5599	115	NA	±30	Average RF
Perfluorooctane sulfonic acid (PFOS)	0.929	0.922	0.8903	0.8834	99.2	NA	±30	Average RF
Perfluorodecane sulfonic acid (PFDS)	0.965	1.05	0.808	0.8814	109	NA	±30	Average RF
Perfluorobutanoic acid (PFBA)	1.00	1.06	1.0212	1.0796	106	NA	±30	Average RF
Perfluoropentanoic acid (PFPeA)	1.00	1.04	3.2461	2.5276	104	4.2	±30	Linear
Perfluorohexanoic acid (PFHxA)	1.00	1.04	1.2595	1.2592	104	4.5	±30	Linear
Perfluoroheptanoic acid (PFHpA)	1.00	1.04	1.0209	1.0139	104	4.4	±30	Linear
Perfluorooctanoic acid (PFOA)	1.00	0.892	1.4138	1.2028	89.2	-10.8	±30	Linear
Perfluorononanoic acid (PFNA)	1.00	1.01	1.0809	1.0463	101	0.9	±30	Linear
Perfluorodecanoic acid (PFDA)	1.00	0.987	1.1222	1.0616	98.7	-1.3	±30	Linear
Perfluoroundecanoic acid (PFUnDA)	1.00	0.959	0.9383	0.8251	95.9	-4.1	±30	Linear
Perfluorododecanoic acid (PFDoDA)	1.00	1.01	0.65	0.6325	101	1.2	±30	Linear
Perfluorotridecanoic acid (PFTrDA)	1.00	0.995	1.1984	1.1102	99.5	-0.5	±30	Linear
Perfluorotetradecanoic acid (PFTeDA)	1.00	0.989	0.8264	0.562	98.9	-1.1	±30	Linear
Perfluorooctane sulfonamide (FOSA)	1.00	1.04	1.1287	1.1697	104	NA	±30	Average RF
N-Methyl perfluorooctane sulfonamidoacetic acid	1.00	1.00	0.5795	0.6075	100	0.3	±30	Linear
N-Ethyl perfluorooctane sulfonamidoacetic acid	1.00	0.862	0.4941	0.4831	86.2	-13.8	±30	Linear
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	0.951	1.07	1.242	1.3985	113	NA	±30	Average RF
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	0.960	0.963	0.8554	0.8581	100	NA	±30	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
13C3-PFBS	5.00	3.75	0.3599	0.2702	75.1	NA	±30	Average RF
18O2-PFHxS	5.00	3.81	0.1656	0.126	76.1	NA	±30	Average RF
13C4-PFOS	5.00	4.42	0.1825	0.1611	88.3	NA	±30	Average RF
13C4-PFBA	5.00	3.19	1.0366	0.6613	63.8*	NA	±30	Average RF
13C5-PFPeA	5.00	3.19	0.5053	0.3223	63.8*	NA	±30	Average RF
13C2-PFHxA	5.00	3.32	1.0534	0.7004	66.5*	NA	±30	Average RF
13C4-PFHpA	5.00	3.50	1.0146	0.7095	69.9	NA	±30	Average RF
13C4-PFOA	5.00	4.53	1.0893	0.9872	90.6	NA	±30	Average RF
13C5-PFNA	5.00	3.91	0.8088	0.6325	78.2	NA	±30	Average RF

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000776
Project:	Tonawanda Bisonite Paint/235.198A	**Date Analyzed:**	02/05/20 01:33

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method:	PFC/537M	**Calibration Date:**	12/27/2019
File ID:	J:\LCMS06\Data\200204_b4\200204_048	**Calibration ID:**	KC1900567
Signal ID:	1	**Analysis Lot:**	668958
		Units:	ng/mL

13C2-PFDA	5.00	4.67	0.6856	0.6409	93.5	NA	±30	Average RF
13C2-PFUnDA	5.00	5.13	0.7419	0.7617	103	NA	±30	Average RF
13C2-PFDoDA	5.00	4.28	0.9757	0.836	85.7	NA	±30	Average RF
13C2-PFTeDA	5.00	4.38	0.822	0.7206	87.7	NA	±30	Average RF
13C8-FOSA	5.00	3.66	0.4655	0.3409	73.2	NA	±30	Average RF
D3-MeFOSAA	5.00	4.79	0.136	0.1304	95.9	NA	±30	Average RF
D5-EtFOSAA	5.00	4.94	0.1139	0.1126	98.8	NA	±30	Average RF
13C2-6:2 FTS	5.00	3.73	0.0711	0.0531	74.6	NA	±30	Average RF
13C2-8:2 FTS	5.00	4.62	0.053	0.0489	92.4	NA	±30	Average RF

Client:	Leader Professional Services, Inc.	**Service Request:**	R2000776
Project:	Tonawanda Bisonite Paint/235.198A	**Date Analyzed:**	02/10/20 19:25

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method:	PFC/537M	**Calibration Date:**	2/6/2020
File ID:	J:\LCMS06\Data\200210_b2\200210_018	**Calibration ID:**	KC2000066
Signal ID:	1	**Analysis Lot:**	669558
		Units:	ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Perfluorooctane sulfonic acid (PFOS)	0.929	0.898	0.7233	0.6988	96.6	NA	±30	Average RF
Perfluorobutanoic acid (PFBA)	1.00	1.07	0.895	0.9568	107	NA	±30	Average RF
Perfluoropentanoic acid (PFPeA)	1.00	1.14	2.0889	2.2835	114	13.7	±30	Linear
Perfluorohexanoic acid (PFHxA)	1.00	0.989	0.9603	0.8881	98.9	-1.1	±30	Linear
Perfluoroheptanoic acid (PFHpA)	1.00	1.05	1.0412	1.0451	105	4.7	±30	Linear
Perfluorooctanoic acid (PFOA)	1.00	0.915	1.0308	0.8966	91.5	-8.5	±30	Linear
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	0.951	0.946	0.9691	0.9635	99.4	NA	±30	Average RF
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	0.960	1.04	0.8677	0.9441	109	NA	±30	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
13C4-PFOS	5.00	4.98	0.1308	0.1303	99.6	NA	±30	Average RF
13C4-PFBA	5.00	4.25	0.8704	0.7395	85.0	NA	±30	Average RF
13C5-PFPeA	5.00	4.38	0.4741	0.4157	87.7	NA	±30	Average RF
13C2-PFHxA	5.00	4.95	0.9718	0.9631	99.1	NA	±30	Average RF
13C4-PFHpA	5.00	5.18	0.8083	0.8374	104	NA	±30	Average RF
13C4-PFOA	5.00	4.95	0.9889	0.9794	99.0	NA	±30	Average RF
13C2-6:2 FTS	5.00	4.56	0.08	0.073	91.3	NA	±30	Average RF
13C2-8:2 FTS	5.00	4.90	0.0624	0.0611	97.9	NA	±30	Average RF

Client: Leader Professional Services, Inc. **Service Request:**R2000776
Project: Tonawanda Bisonite Paint/235.198A

Analysis Run Log
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M **Analysis Lot:**668958
Instrument ID:K-LCMS-06

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\LCMS06\Data\200204_b4\200204_048	Continuing Calibration Verification	KQ2001639-01	2/5/2020	01:33	
J:\LCMS06\Data\200204_b4\200204_049	Continuing Calibration Blank	KQ2001639-02	2/5/2020	01:44	
J:\LCMS06\Data\200204_b4\200204_050	Lab Control Sample	KQ2001501-03	2/5/2020	01:54	
J:\LCMS06\Data\200204_b4\200204_051	Method Blank	KQ2001501-04	2/5/2020	02:05	
J:\LCMS06\Data\200204_b4\200204_052	MW3	R2000776-001	2/5/2020	02:15	
J:\LCMS06\Data\200204_b4\200204_053	MW2	R2000776-002	2/5/2020	02:26	
J:\LCMS06\Data\200204_b4\200204_054	MW2 MS	KQ2001501-01	2/5/2020	02:36	
J:\LCMS06\Data\200204_b4\200204_055	MW2 DMS	KQ2001501-02	2/5/2020	02:47	
J:\LCMS06\Data\200204_b4\200204_056	MW2 DUP	R2000776-003	2/5/2020	02:57	
J:\LCMS06\Data\200204_b4\200204_057	Field Blank	R2000776-004	2/5/2020	03:08	
J:\LCMS06\Data\200204_b4\200204_058	Equipment Blank	R2000776-005	2/5/2020	03:18	
J:\LCMS06\Data\200204_b4\200204_059	ZZZZZZZ	ZZZZZZZ	2/5/2020	03:28	
J:\LCMS06\Data\200204_b4\200204_060	ZZZZZZZ	ZZZZZZZ	2/5/2020	03:39	
J:\LCMS06\Data\200204_b4\200204_061	ZZZZZZZ	ZZZZZZZ	2/5/2020	03:50	
J:\LCMS06\Data\200204_b4\200204_062	ZZZZZZZ	ZZZZZZZ	2/5/2020	04:00	
J:\LCMS06\Data\200204_b4\200204_063	ZZZZZZZ	ZZZZZZZ	2/5/2020	04:11	
J:\LCMS06\Data\200204_b4\200204_064	ZZZZZZZ	ZZZZZZZ	2/5/2020	04:22	
J:\LCMS06\Data\200204_b4\200204_065	ZZZZZZZ	ZZZZZZZ	2/5/2020	04:32	
J:\LCMS06\Data\200204_b4\200204_066	ZZZZZZZ	ZZZZZZZ	2/5/2020	04:43	
J:\LCMS06\Data\200204_b4\200204_067	ZZZZZZZ	ZZZZZZZ	2/5/2020	04:53	
J:\LCMS06\Data\200204_b4\200204_068	ZZZZZZZ	ZZZZZZZ	2/5/2020	05:04	

Client: Leader Professional Services, Inc. **Service Request:**R2000776
Project: Tonawanda Bisonite Paint/235.198A

Analysis Run Log
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: PFC/537M **Analysis Lot:**669558
Instrument ID:K-LCMS-06

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\LCMS06\Data\200210_b2\200210_018	Continuing Calibration Verification	KQ2001983-01	2/10/2020	19:25	
J:\LCMS06\Data\200210_b2\200210_019	Continuing Calibration Blank	KQ2001983-02	2/10/2020	19:36	
J:\LCMS06\Data\200210_b2\200210_020	ZZZZZZZ	ZZZZZZZ	2/10/2020	19:47	
J:\LCMS06\Data\200210_b2\200210_021	ZZZZZZZ	ZZZZZZZ	2/10/2020	19:58	
J:\LCMS06\Data\200210_b2\200210_022	ZZZZZZZ	ZZZZZZZ	2/10/2020	20:08	
J:\LCMS06\Data\200210_b2\200210_023	ZZZZZZZ	ZZZZZZZ	2/10/2020	20:19	
J:\LCMS06\Data\200210_b2\200210_024	ZZZZZZZ	ZZZZZZZ	2/10/2020	20:30	

Prep Summary Report

Client: Leader Professional Services, Inc. **Service Request:**R2000776
Project: Tonawanda Bisonite Paint/235.198A
Sample Matrix: Water

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Prep Method: ALS SOP **Extraction Lot:** 353103
Analytical Method: PFC/537M **Extraction Date:** 02/03/20 10:09

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
Matrix Spike	KQ2001501-01MS	1/27/20	1/28/20	305.0000 mL	8 mL	
Duplicate Matrix Spike	KQ2001501-02DMS	1/27/20	1/28/20	310.0000 mL	8 mL	
Lab Control Sample	KQ2001501-03LCS	NA	NA	250 mL	8 mL	
Method Blank	KQ2001501-04MB	NA	NA	250 mL	8 mL	
MW3	R2000776-001	1/27/20	1/28/20	270.0000 mL	8 mL	
MW2	R2000776-002	1/27/20	1/28/20	320.0000 mL	8 mL	
MW2 DUP	R2000776-003	1/27/20	1/28/20	315.0000 mL	8 mL	
Field Blank	R2000776-004	1/27/20	1/28/20	290.0000 mL	8 mL	
Equipment Blank	R2000776-005	1/27/20	1/28/20	305.0000 mL	8 mL	

Raw Data

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

PFAS by HPLC/MS/MS

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Preparation Information Benchsheet

Prep Run#: 353103
Team: Organic LC/KLMILLER
Number of Copies to make: 7

Prep WorkFlow: OLC_PFAS_SPE_L
Prep Method: ALS SOP

Status: Prepped
Prep Date/Time: 2/3/20 10:09

#	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Final Vol	Sample Description
1	R2000776-001	MW3	.01	PFC/537M/PFAS		Water	270.0000mL	8.00mL	
2	R2000776-002	MW2	.01	PFC/537M/PFAS		Water	320.0000mL	8.00mL	
3	R2000776-003	MW2 DUP	.01	PFC/537M/PFAS		Water	315.0mL 2/12/2020 ~~305.0000mL~~	8.00mL	
4	R2000776-004	Field Blank	.01	PFC/537M/PFAS		Water	290.0000mL	8.00mL	
5	R2000776-005	Equipment Blank	.01	PFC/537M/PFAS		Water	305.0000mL	8.00mL	
6	R2000804-006	FB-1-012820	.01	PFC/537M/PFAS		Water	285.0000mL	8.00mL	
7	R2000853-001	MW-812DR	.01	PFC/537M/PFAS		Water	300.0000mL	8.00mL	
8	K2000943-001	2001-540-1	.01	PFC/537M/PFAS		Water	300.0000mL	8.00mL	
9	K2000944-001	2001-539-1	.01	PFC/537M/PFAS		Water	300.0000mL	8.00mL	
10	K2000944-002	2001-539-2	.02	PFC/537M/PFAS		Water	295.0000mL	8.00mL	
11	K2000944-003	2001-539-3	.01	PFC/537M/PFAS		Water	305.0000mL	8.00mL	
12	K2000945-001	2001-538-1	.01	PFC/537M/PFAS		Water	305.0000mL	8.00mL	
13	K2000945-002	2001-538-2	.01	PFC/537M/PFAS		Water	305.0000mL	8.00mL	
14	K2000947-001	2001-537-1	.01	PFC/537M/PFAS		Water	310.0000mL	8.00mL	
15	K2000947-002	2001-537-2	.01	PFC/537M/PFAS		Water	305.0000mL	8.00mL	
16	KQ2001501-01	R2000776-002 MS	.01	PFC/537M/PFAS		Liquid	305.0000mL	8.00mL	
17	KQ2001501-02	R2000776-002 DMS	.01	PFC/537M/PFAS		Liquid	310.0000mL	8.00mL	
18	KQ2001501-03	LCS		PFC/537M/PFAS		Liquid	250mL	8.00mL	
19	KQ2001501-04	MB		PFC/537M/PFAS		Liquid	250mL	8.00mL	

Spiking Solutions

Name: PFC Isotopes 2ppm Inventory ID 206059 Logbook Ref: 19-OLC-02-74C Expires On: 12/04/2023

K2000943-001	20.00µL	K2000944-001	20.00µL	K2000944-002	20.00µL	K2000944-003	20.00µL	K2000945-001	20.00µL	K2000945-002	20.00µL
K2000947-001	20.00µL	K2000947-002	20.00µL	KQ2001501-01	20.00µL	KQ2001501-02	20.00µL	KQ2001501-03	20.00µL	KQ2001501-04	20.00µL
R2000776-001	20.00µL	R2000776-002	20.00µL	R2000776-003	20.00µL	R2000776-004	20.00µL	R2000776-005	20.00µL	R2000804-006	20.00µL
R2000853-001	20.00µL										

Name: PFC Extended 2ppm Inventory ID 206091 Logbook Ref: 19-OLC-02-74D Expires On: 07/03/2020

K2000943-001	20.00µL	K2000944-001	20.00µL	K2000944-002	20.00µL	K2000944-003	20.00µL	K2000945-001	20.00µL	K2000945-002	20.00µL
K2000947-001	20.00µL	K2000947-002	20.00µL	KQ2001501-01	20.00µL	KQ2001501-02	20.00µL	KQ2001501-03	20.00µL	KQ2001501-04	20.00µL
R2000776-001	20.00µL	R2000776-002	20.00µL	R2000776-003	20.00µL	R2000776-004	20.00µL	R2000776-005	20.00µL	R2000804-006	20.00µL
R2000853-001	20.00µL										

Preparation Information Benchsheet

Prep Run#: 353103
Team: Organic LC/KLMILLER

Prep WorkFlow: OLC_PFAS_SPE_L
Prep Method: ALS SOP

Status: Prepped
Prep Date/Time: 2/3/20 10:09

Name:	PFC IS	Inventory ID	206357	Logbook Ref:	19-OLC-02-78B	Expires On:	07/21/2020

K2000943-001	10.00µL	K2000944-001	10.00µL	K2000944-002	10.00µL	K2000944-003	10.00µL	K2000945-001	10.00µL	K2000945-002	10.00µL
K2000947-001	10.00µL	K2000947-002	10.00µL	KQ2001501-01	10.00µL	KQ2001501-02	10.00µL	KQ2001501-03	10.00µL	KQ2001501-04	10.00µL
R2000776-001	10.00µL	R2000776-002	10.00µL	R2000776-003	10.00µL	R2000776-004	10.00µL	R2000776-005	10.00µL	R2000804-006	10.00µL
R2000853-001	10.00µL										

Name:	PFC Targets 200ppb mix	Inventory ID	206407	Logbook Ref:	19-OLC-01-66F	Expires On:	06/09/2020

KQ2001501-01	40.00µL	KQ2001501-02	40.00µL	KQ2001501-03	40.00µL

Preparation Steps

Step:	Extraction Start
Started:	2/3/20 10:09
Finished:	2/3/20 16:10
By:	KLMILLER
Comments	

Step:	Extraction
Started:	2/3/20 13:25
Finished:	2/4/20 16:30
By:	BDAVIS
Comments	

Step:	Final Volume
Started:	2/3/20 16:30
Finished:	2/4/20 16:16
By:	BDAVIS
Comments	

Comments: _____

Reviewed By: E Domres Date: 2/12/2020

Chain of Custody

Relinquished By: _____ Date: 2/4/2020

Received By: _____ Date: 2/4/2020

Extracts Examined: (Yes) No

Preparation Information Benchsheet

Prep Run#: 353103
Team: Organic LC/KLMILLER
Number of Copies to make: 7

Prep WorkFlow: OLC_PFAS_SPE_L
Prep Method: ALS SOP

Status: Draft
Prep Date/Time: 2/3/20 10:09 AM

#	Lab Code	Client ID	B#	√	Method /Test	Matrix	Amt. Ext. mL	pH	Int. Vol	Final Vol	Surr Amt µl	Spike Amt
1	**R2000776-001**	MW3 ③	.01	✓	PFC/537M / PFAS	Water	270	2.5	N/A	8 mL	20/20	—
2	**R2000776-002**	MW2	.01	✓	PFC/537M / PFAS	Water	320					—
3	**R2000776-003**	MW2 DUP	.01	✓	PFC/537M / PFAS	Water	315					—
4	**R2000776-004**	Field Blank	.01	✓	PFC/537M / PFAS	Water	290					—
5	**R2000776-005**	Equipment Blank	.01	✓	PFC/537M / PFAS	Water	305					—
6	**R2000804-006**	FB-1-012820	.01	✓	PFC/537M / PFAS	Water	285					—
7	**R2000853-001**	MW-812DR	.01	✓	PFC/537M / PFAS	Water	300					—
8	**K2000943-001**	2001-540-1	.01	✓	PFC/537M / PFAS	Water	300					—
9	**K2000944-001**	2001-539-1	.01	✓	PFC/537M / PFAS	Water	300					—
10	**K2000944-002**	2001-539-2 ①	.02	✓	PFC/537M / PFAS	Water	295					—
11	**K2000944-003**	2001-539-3 ②	.01	✓	PFC/537M / PFAS	Water	305					—
12	**K2000945-001**	2001-538-1 ⑥	.01	✓	PFC/537M / PFAS	Water	305					—
13	**K2000945-002**	2001-538-2 ③	.01	✓	PFC/537M / PFAS	Water	305					—
14	**K2000947-001**	2001-537-1 ③	.01	✓	PFC/537M / PFAS	Water	310					—
15	**K2000947-002**	2001-537-2 ③	.01	✓	PFC/537M / PFAS	Water	305					—
16	**KQ2001501-01**	R2000776-002 MS	.01	✓	PFC/537M / PFAS	Liquid	305					40 µl
17	**KQ2001501-02**	R2000776-002 DMS	.01	✓	PFC/537M / PFAS	Liquid	310					↓
18	**KQ2001501-03**	LCS			PFC/537M / PFAS	Liquid	250					
19	**KQ2001501-04**	MB			PFC/537M / PFAS	Liquid	250	↓	↓	↓	↓	—

① Suspended Solids
② Organic Matter
③ light Sediment

Comments: DB (20+40µL), Curie (990µL), Pascal (10µL)

Surrogate ID: 19-OLC-02-74C 2ppm 20µL xp 12-4-23 Epp:DB
19-OLC-02-74D 2ppm 20µL xp 7-3-20 Epp:DB

Spike ID: 19-OLC-01-66E 200ppb 40µL xp 6-9-20 Epp: DB

Witnessed By: —

Analyst: K

Assisted By: Noah Hilliker

Additional prep information for Perfluorinated Compounds
by HPLC/MS/MS – SOP: LCP-PFC (rev. 8)

Waters

Service Request R2000776, R804, R853, K943, 944, 945, 947 **Workgroup** KQ2001501

6cc 200mg Strata XL-AW Cartridge Sorbent Lot # S322-0026

Envi-Carb Lot # —

0.1% NH_4OH in MeOH Lot# 19-OLC-02-76B MeOH Lot# DX630-US

Reagent Water Lot# 59219

Acetic Acid (LCMS Grade) Lot# SHBK4015

25% NH_4OH Lot# —

Centrifuge Used? (K-Sir-Spins-A-Lot): ☐Yes ☑No

Extraction (Manifold) Start (Time/Date/Initial): 13:25 2-3-20 K

Extraction (Manifold) Stop (Time/Date/Initial): 16:30 2-3-20 K

IS solution (13C7-PFUnDA 500ppb) Lot #: 19-OLC-02-78B

Nylon Filter Lot#: 81888103

Extract Storage: Green

Completed(Time/Date/Initial): 4:16pm 2/4/2020 NH

Comments/Observations:

Bench Sheet Review Check List
❑ Hold Times Met (if no, Reason:)
❑ Prep date, dept, method, product code correct in stealth
❑ Spike Information correct
❑ Weights/Volumes and units correct on raw and final bench sheets
❑ Sample IDs have been checked—Bottle numbers appended if required
❑ Names present for: Started by, Completed by, relinquished by, and witnessed by.
❑ Training has been circled
❑ Extract Storage recorded
❑ Additional Prep Sheet completely filled out (NA or line out Blanks)
❑ All clean-ups have been noted on additional prep sheet
❑ Signed service request with Form V, if applicable, has been attached

1st EJD 02/12/20
2nd 02/13/20

Validation Report

Data File: J:\LCMS06\Data\200204_b4\200204_052
Lab ID: R2000776-001.R01
RunType: N/A
Matrix: Water

Date Acquired: 2/5/20 02:15
Batch ID: 668958
Analysis Method: PFC/537M/PFAS

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Internal Standards	X	
Surrogates		X
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	13C4-PFBA	64	70	130	Narrate native ok
	13C5-PFPeA	64	70	130	Narrate native ok
	13C2-PFHxA	66	70	130	Narrate native ok
Surrogates	13C4-PFBA	4	27	124	***
	13C5-PFPeA	5	27	138	***
	13C2-PFHxA	9	28	132	***
	13C4-PFHpA	14	19	139	***
	13C2-6:2 FTS	275	10	226	Narrate high bias, < MRL
	13C2-8:2 FTS	457	10	202	Narrate high bias, ND

*** re-analysis confirms, narrate matrix

Primary Review: _____

Secondary Review: _____

AIR ANALTICAL RESULTS

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

January 23, 2020

Leader Environmental

Sample Delivery Group:	L1180201
Samples Received:	01/16/2020
Project Number:	235.198A
Description:	Bisonik

Report To: Pete von Schondorf
271 Marsh Road
Suite 2
Pittsford, NY 14534

Entire Report Reviewed By: Nancy F. McLain

Nancy McLain
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



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SV-1 L1180201-01 Air

Collected by: Rob Murphy | Collected date/time: 01/13/20 15:08 | Received date/time: 01/16/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1415207	1	01/22/20 18:49	01/22/20 18:49	CAW	Mt. Juliet, TN

DUPLICATE-INSIDE L1180201-02 Air

Collected by: Rob Murphy | Collected date/time: 01/13/20 15:21 | Received date/time: 01/16/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1413744	1	01/19/20 14:20	01/19/20 14:20	MBF	Mt. Juliet, TN

INDOOR-1 L1180201-03 Air

Collected by: Rob Murphy | Collected date/time: 01/13/20 15:21 | Received date/time: 01/16/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1413744	1	01/19/20 14:57	01/19/20 14:57	MBF	Mt. Juliet, TN

SS-1 L1180201-04 Air

Collected by: Rob Murphy | Collected date/time: 01/13/20 15:21 | Received date/time: 01/16/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1413744	1	01/19/20 15:34	01/19/20 15:34	MBF	Mt. Juliet, TN

OUTDOOR 1 L1180201-05 Air

Collected by: Rob Murphy | Collected date/time: 01/13/20 15:14 | Received date/time: 01/16/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1413744	1	01/19/20 16:11	01/19/20 16:11	MBF	Mt. Juliet, TN

SS-2 L1180201-06 Air

Collected by: Rob Murphy | Collected date/time: 01/13/20 15:29 | Received date/time: 01/16/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1413744	1	01/19/20 16:48	01/19/20 16:48	MBF	Mt. Juliet, TN

MATRIX SPIKE - INDOOR L1180201-10 Air

Collected by: Rob Murphy | Collected date/time: 01/13/20 15:21 | Received date/time: 01/16/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1413744	1	01/20/20 01:28	01/20/20 01:28	MBF	Mt. Juliet, TN

MS-DUPLICATE L1180201-11 Air

Collected by: Rob Murphy | Collected date/time: 01/13/20 15:21 | Received date/time: 01/16/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1413744	1	01/20/20 00:51	01/20/20 00:51	MBF	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Nancy F. McLain

Nancy McLain
Project Manager

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	3.40	8.08		1	WG1415207
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1415207
Benzene	71-43-2	78.10	0.200	0.639	0.310	0.990		1	WG1415207
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1415207
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1415207
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1415207
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1415207
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1415207
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1415207
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1415207
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1415207
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1415207
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1415207
Chloromethane	74-87-3	50.50	0.200	0.413	0.205	0.423		1	WG1415207
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1415207
Cyclohexane	110-82-7	84.20	0.200	0.689	4.33	14.9		1	WG1415207
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1415207
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1415207
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1415207
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1415207
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1415207
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1415207
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1415207
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1415207
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1415207
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1415207
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1415207
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1415207
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1415207
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1415207
Ethanol	64-17-5	46.10	0.630	1.19	2.70	5.09		1	WG1415207
Ethylbenzene	100-41-4	106	0.200	0.867	1.11	4.81		1	WG1415207
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG1415207
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.992	5.57		1	WG1415207
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.484	2.39		1	WG1415207
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1415207
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1415207
Heptane	142-82-5	100	0.200	0.818	5.89	24.1		1	WG1415207
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1415207
n-Hexane	110-54-3	86.20	0.200	0.705	5.73	20.2		1	WG1415207
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1415207
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG1415207
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1415207
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1415207
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1415207
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1415207
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1415207
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1415207
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG1415207
Propene	115-07-1	42.10	0.400	0.689	ND	ND		1	WG1415207
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1415207
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1415207
Tetrachloroethylene	127-18-4	166	0.200	1.36	0.592	4.02		1	WG1415207
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1415207
Toluene	108-88-3	92.10	0.200	0.753	4.93	18.6		1	WG1415207
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1415207

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG1415207
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1415207
Trichloroethylene	79-01-6	131	0.200	1.07	0.681	3.65		1	WG1415207
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG1415207
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG1415207
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	1.22	5.70		1	WG1415207
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1415207
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1415207
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1415207
m&p-Xylene	1330-20-7	106	0.400	1.73	3.04	13.2		1	WG1415207
o-Xylene	95-47-6	106	0.200	0.867	0.852	3.69		1	WG1415207
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*106*				WG1415207

Volatile Organic Compounds (MS) by Method TO-15 - TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ppbv	Result ppbv	Result ppbv	Qualifier	Dilution	Batch
Cyclohexane, 1,3-Dimethyl-	000591-21-9	112	0.000	0.000	14.4	66.0	J N	1	WG1415207

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	5.05	12.0		1	WG1413744
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1413744
Benzene	71-43-2	78.10	0.200	0.639	0.335	1.07		1	WG1413744
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1413744
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1413744
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1413744
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1413744
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1413744
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1413744
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1413744
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1413744
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1413744
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1413744
Chloromethane	74-87-3	50.50	0.200	0.413	0.734	1.52		1	WG1413744
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1413744
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG1413744
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1413744
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1413744
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1413744
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1413744
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1413744
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1413744
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1413744
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1413744
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1413744
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1413744
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1413744
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1413744
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1413744
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1413744
Ethanol	64-17-5	46.10	0.630	1.19	13.1	24.7		1	WG1413744
Ethylbenzene	100-41-4	106	0.200	0.867	0.300	1.30		1	WG1413744
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG1413744
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.282	1.58		1	WG1413744
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.686	3.39		1	WG1413744
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1413744
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1413744
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG1413744
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1413744
n-Hexane	110-54-3	86.20	0.200	0.705	0.246	0.867		1	WG1413744
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1413744
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.294	1.02		1	WG1413744
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1413744
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1413744
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1413744
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1413744
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1413744
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1413744
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG1413744
Propene	115-07-1	42.10	0.400	0.689	ND	ND		1	WG1413744
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1413744
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1413744
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG1413744
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1413744
Toluene	108-88-3	92.10	0.200	0.753	2.79	10.5		1	WG1413744
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1413744

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG1413744
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1413744
Trichloroethylene	79-01-6	131	0.200	1.07	0.505	2.71		1	WG1413744
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.235	1.15		1	WG1413744
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG1413744
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1413744
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1413744
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1413744
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1413744
m&p-Xylene	1330-20-7	106	0.400	1.73	1.16	5.03		1	WG1413744
o-Xylene	95-47-6	106	0.200	0.867	0.339	1.47		1	WG1413744
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*102*				WG1413744

Volatile Organic Compounds (MS) by Method TO-15 - TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	CAS #	Mol. Wt.	RDL1 mg/l	RDL2 mg/l	Result mg/l	Result mg/l	Qualifier	Dilution	Batch

Number of TICs found: 0

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	5.26	12.5		1	WG1413744
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1413744
Benzene	71-43-2	78.10	0.200	0.639	0.358	1.14		1	WG1413744
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1413744
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1413744
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1413744
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1413744
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1413744
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1413744
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1413744
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1413744
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1413744
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1413744
Chloromethane	74-87-3	50.50	0.200	0.413	0.763	1.58		1	WG1413744
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1413744
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG1413744
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1413744
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1413744
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1413744
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1413744
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1413744
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1413744
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1413744
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1413744
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1413744
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1413744
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1413744
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1413744
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1413744
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1413744
Ethanol	64-17-5	46.10	0.630	1.19	7.11	13.4		1	WG1413744
Ethylbenzene	100-41-4	106	0.200	0.867	0.277	1.20		1	WG1413744
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG1413744
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.278	1.56		1	WG1413744
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.723	3.58		1	WG1413744
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1413744
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1413744
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG1413744
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1413744
n-Hexane	110-54-3	86.20	0.200	0.705	0.259	0.913		1	WG1413744
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1413744
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.213	0.740		1	WG1413744
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1413744
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1413744
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1413744
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1413744
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1413744
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1413744
2-Propanol	67-63-0	60.10	1.25	3.07	1.26	3.10		1	WG1413744
Propene	115-07-1	42.10	0.400	0.689	ND	ND		1	WG1413744
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1413744
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1413744
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG1413744
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1413744
Toluene	108-88-3	92.10	0.200	0.753	2.64	9.94		1	WG1413744
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1413744

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG1413744
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1413744
Trichloroethylene	79-01-6	131	0.200	1.07	0.512	2.74		1	WG1413744
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG1413744
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG1413744
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1413744
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1413744
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1413744
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1413744
m&p-Xylene	1330-20-7	106	0.400	1.73	1.06	4.60		1	WG1413744
o-Xylene	95-47-6	106	0.200	0.867	0.304	1.32		1	WG1413744
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*101*				WG1413744

Volatile Organic Compounds (MS) by Method TO-15 - TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	CAS #	Mol. Wt.	RDL1 mg/l	RDL2 mg/l	Result mg/l	Result mg/l	Qualifier	Dilution	Batch

Number of TICs found: 0

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	31.4	74.6		1	WG1413744
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1413744
Benzene	71-43-2	78.10	0.200	0.639	0.384	1.23		1	WG1413744
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1413744
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1413744
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1413744
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1413744
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1413744
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1413744
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1413744
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1413744
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1413744
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1413744
Chloromethane	74-87-3	50.50	0.200	0.413	0.749	1.55		1	WG1413744
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1413744
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG1413744
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1413744
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1413744
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1413744
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1413744
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1413744
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1413744
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1413744
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1413744
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1413744
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1413744
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1413744
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1413744
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1413744
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1413744
Ethanol	64-17-5	46.10	0.630	1.19	12.2	23.0		1	WG1413744
Ethylbenzene	100-41-4	106	0.200	0.867	0.382	1.66		1	WG1413744
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG1413744
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.271	1.52		1	WG1413744
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.740	3.66		1	WG1413744
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1413744
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1413744
Heptane	142-82-5	100	0.200	0.818	0.212	0.867		1	WG1413744
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1413744
n-Hexane	110-54-3	86.20	0.200	0.705	0.285	1.00		1	WG1413744
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1413744
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.243	0.844		1	WG1413744
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1413744
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	3.04	8.96		1	WG1413744
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1413744
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1413744
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1413744
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1413744
2-Propanol	67-63-0	60.10	1.25	3.07	5.22	12.8		1	WG1413744
Propene	115-07-1	42.10	0.400	0.689	ND	ND		1	WG1413744
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1413744
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1413744
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG1413744
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1413744
Toluene	108-88-3	92.10	0.200	0.753	3.21	12.1		1	WG1413744
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1413744

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
			ppbv	ug/m3	ppbv	ug/m3			
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG1413744
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1413744
Trichloroethylene	79-01-6	131	0.200	1.07	0.534	2.86		1	WG1413744
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG1413744
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG1413744
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1413744
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1413744
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1413744
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1413744
m&p-Xylene	1330-20-7	106	0.400	1.73	1.78	7.72		1	WG1413744
o-Xylene	95-47-6	106	0.200	0.867	0.493	2.14		1	WG1413744
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*111*				WG1413744

Volatile Organic Compounds (MS) by Method TO-15 - TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
			mg/l	mg/l	mg/l	mg/l			

Number of TICs found: 0

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	7.08	16.8		1	WG1413744
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1413744
Benzene	71-43-2	78.10	0.200	0.639	0.361	1.15		1	WG1413744
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1413744
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1413744
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1413744
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1413744
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1413744
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1413744
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1413744
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1413744
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1413744
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1413744
Chloromethane	74-87-3	50.50	0.200	0.413	1.79	3.70		1	WG1413744
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1413744
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG1413744
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1413744
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1413744
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1413744
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1413744
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1413744
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1413744
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1413744
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1413744
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1413744
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1413744
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1413744
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1413744
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1413744
1,4-Dioxane	123-91-1	88.10	0.200	0.721	0.377	1.36		1	WG1413744
Ethanol	64-17-5	46.10	0.630	1.19	3.19	6.01		1	WG1413744
Ethylbenzene	100-41-4	106	0.200	0.867	0.202	0.876		1	WG1413744
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG1413744
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.284	1.60		1	WG1413744
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.613	3.03		1	WG1413744
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1413744
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1413744
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG1413744
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1413744
n-Hexane	110-54-3	86.20	0.200	0.705	0.260	0.917		1	WG1413744
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1413744
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.206	0.715		1	WG1413744
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1413744
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1413744
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1413744
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1413744
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1413744
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1413744
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG1413744
Propene	115-07-1	42.10	0.400	0.689	ND	ND		1	WG1413744
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1413744
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1413744
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG1413744
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	0.869	2.56		1	WG1413744
Toluene	108-88-3	92.10	0.200	0.753	0.682	2.57		1	WG1413744
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1413744

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG1413744
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1413744
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1413744
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG1413744
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG1413744
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1413744
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1413744
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1413744
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1413744
m&p-Xylene	1330-20-7	106	0.400	1.73	0.688	2.98		1	WG1413744
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG1413744
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*97.5*				WG1413744

Volatile Organic Compounds (MS) by Method TO-15 - TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	CAS #	Mol. Wt.	RDL1 mg/l	RDL2 mg/l	Result mg/l	Result mg/l	Qualifier	Dilution	Batch

Number of TICs found: 0

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	9.81	23.3		1	WG1413744
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1413744
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG1413744
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1413744
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1413744
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1413744
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1413744
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1413744
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1413744
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1413744
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1413744
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1413744
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1413744
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG1413744
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1413744
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG1413744
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1413744
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1413744
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1413744
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1413744
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1413744
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1413744
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1413744
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1413744
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1413744
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1413744
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1413744
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1413744
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1413744
1,4-Dioxane	123-91-1	88.10	0.200	0.721	0.248	0.894		1	WG1413744
Ethanol	64-17-5	46.10	0.630	1.19	7.23	13.6		1	WG1413744
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG1413744
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG1413744
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.284	1.60		1	WG1413744
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.604	2.99		1	WG1413744
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1413744
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1413744
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG1413744
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1413744
n-Hexane	110-54-3	86.20	0.200	0.705	ND	ND		1	WG1413744
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1413744
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG1413744
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1413744
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	3.89	11.5		1	WG1413744
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1413744
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1413744
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1413744
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1413744
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG1413744
Propene	115-07-1	42.10	0.400	0.689	0.475	0.818	B	1	WG1413744
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1413744
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1413744
Tetrachloroethylene	127-18-4	166	0.200	1.36	0.431	2.93		1	WG1413744
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1413744
Toluene	108-88-3	92.10	0.200	0.753	0.239	0.900		1	WG1413744
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1413744

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
			ppbv	ug/m3	ppbv	ug/m3			
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG1413744
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1413744
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1413744
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.200	0.982		1	WG1413744
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG1413744
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1413744
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1413744
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1413744
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1413744
m&p-Xylene	1330-20-7	106	0.400	1.73	ND	ND		1	WG1413744
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG1413744
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*103*				WG1413744

Volatile Organic Compounds (MS) by Method TO-15 - TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
			mg/l	mg/l	mg/l	mg/l			

Number of TICs found: 0

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	4.96	11.8		1	WG1413744
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1413744
Benzene	71-43-2	78.10	0.200	0.639	0.344	1.10		1	WG1413744
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1413744
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1413744
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1413744
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1413744
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1413744
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1413744
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1413744
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1413744
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1413744
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1413744
Chloromethane	74-87-3	50.50	0.200	0.413	0.752	1.55		1	WG1413744
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1413744
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG1413744
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1413744
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1413744
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1413744
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1413744
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1413744
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1413744
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1413744
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1413744
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1413744
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1413744
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1413744
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1413744
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1413744
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1413744
Ethanol	64-17-5	46.10	0.630	1.19	6.87	13.0		1	WG1413744
Ethylbenzene	100-41-4	106	0.200	0.867	0.282	1.22		1	WG1413744
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG1413744
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.276	1.55		1	WG1413744
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.749	3.70		1	WG1413744
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1413744
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1413744
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG1413744
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1413744
n-Hexane	110-54-3	86.20	0.200	0.705	0.264	0.931		1	WG1413744
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1413744
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.235	0.816		1	WG1413744
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1413744
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1413744
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1413744
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1413744
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1413744
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1413744
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG1413744
Propene	115-07-1	42.10	0.400	0.689	ND	ND		1	WG1413744
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1413744
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1413744
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG1413744
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1413744
Toluene	108-88-3	92.10	0.200	0.753	2.79	10.5		1	WG1413744
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1413744

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG1413744
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1413744
Trichloroethylene	79-01-6	131	0.200	1.07	0.540	2.89		1	WG1413744
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG1413744
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG1413744
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1413744
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1413744
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1413744
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1413744
m&p-Xylene	1330-20-7	106	0.400	1.73	1.09	4.73		1	WG1413744
o-Xylene	95-47-6	106	0.200	0.867	0.293	1.27		1	WG1413744
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*99.3*				WG1413744

Volatile Organic Compounds (MS) by Method TO-15 - TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	CAS #	Mol. Wt.	RDL1 mg/l	RDL2 mg/l	Result mg/l	Result mg/l	Qualifier	Dilution	Batch

Number of TICs found: 0

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	8.01	19.0		1	WG1413744
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1413744
Benzene	71-43-2	78.10	0.200	0.639	0.343	1.10		1	WG1413744
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1413744
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1413744
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1413744
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1413744
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1413744
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1413744
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1413744
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1413744
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1413744
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1413744
Chloromethane	74-87-3	50.50	0.200	0.413	1.17	2.42		1	WG1413744
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1413744
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG1413744
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1413744
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1413744
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1413744
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1413744
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1413744
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1413744
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1413744
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1413744
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1413744
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1413744
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1413744
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1413744
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1413744
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1413744
Ethanol	64-17-5	46.10	0.630	1.19	11.3	21.3		1	WG1413744
Ethylbenzene	100-41-4	106	0.200	0.867	0.291	1.26		1	WG1413744
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG1413744
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.301	1.69		1	WG1413744
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.688	3.40		1	WG1413744
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1413744
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1413744
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG1413744
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1413744
n-Hexane	110-54-3	86.20	0.200	0.705	0.319	1.12		1	WG1413744
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1413744
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.290	1.01		1	WG1413744
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1413744
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	1.25	3.69		1	WG1413744
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1413744
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1413744
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1413744
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1413744
2-Propanol	67-63-0	60.10	1.25	3.07	1.34	3.29		1	WG1413744
Propene	115-07-1	42.10	0.400	0.689	ND	ND		1	WG1413744
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1413744
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1413744
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG1413744
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1413744
Toluene	108-88-3	92.10	0.200	0.753	2.78	10.5		1	WG1413744
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1413744

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG1413744
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1413744
Trichloroethylene	79-01-6	131	0.200	1.07	0.539	2.89		1	WG1413744
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG1413744
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG1413744
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	0.443	2.07		1	WG1413744
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1413744
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1413744
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1413744
m&p-Xylene	1330-20-7	106	0.400	1.73	1.13	4.90		1	WG1413744
o-Xylene	95-47-6	106	0.200	0.867	0.334	1.45		1	WG1413744
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*106*				WG1413744

Volatile Organic Compounds (MS) by Method TO-15 - TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	CAS #	Mol. Wt.	RDL1 mg/l	RDL2 mg/l	Result mg/l	Result mg/l	Qualifier	Dilution	Batch

Number of TICs found: 0

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

Method Blank (MB)

(MB) R3492215-3 01/19/20 10:26

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.0569	1.25
Allyl Chloride	U		0.0546	0.200
Benzene	U		0.0460	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0436	0.200
Bromoform	U		0.0786	0.600
Bromomethane	U		0.0609	0.200
1,3-Butadiene	U		0.0563	2.00
Carbon disulfide	U		0.0544	0.200
Carbon tetrachloride	U		0.0585	0.200
Chlorobenzene	U		0.0601	0.200
Chloroethane	U		0.0489	0.200
Chloroform	U		0.0574	0.200
Chloromethane	U		0.0544	0.200
2-Chlorotoluene	U		0.0605	0.200
Cyclohexane	U		0.0534	0.200
Dibromochloromethane	U		0.0494	0.200
1,2-Dibromoethane	U		0.0185	0.200
1,2-Dichlorobenzene	U		0.0603	0.200
1,3-Dichlorobenzene	U		0.0597	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0616	0.200
1,1-Dichloroethane	U		0.0514	0.200
1,1-Dichloroethene	U		0.0490	0.200
cis-1,2-Dichloroethene	U		0.0389	0.200
trans-1,2-Dichloroethene	U		0.0464	0.200
1,2-Dichloropropane	U		0.0599	0.200
cis-1,3-Dichloropropene	U		0.0588	0.200
trans-1,3-Dichloropropene	U		0.0435	0.200
1,4-Dioxane	U		0.0554	0.200
Ethylbenzene	U		0.0506	0.200
4-Ethyltoluene	U		0.0666	0.200
Trichlorofluoromethane	U		0.0673	0.200
Dichlorodifluoromethane	U		0.0601	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0687	0.200
1,2-Dichlorotetrafluoroethane	U		0.0458	0.200
Heptane	U		0.0626	0.200
Hexachloro-1,3-butadiene	U		0.0656	0.630
n-Hexane	U		0.0457	0.200
Isopropylbenzene	U		0.0563	0.200

Method Blank (MB)

(MB) R3492215-3 01/19/20 10:26

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Methylene Chloride	U		0.0465	0.200
Methyl Butyl Ketone	U		0.0682	1.25
2-Butanone (MEK)	U		0.0493	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0650	1.25
Methyl Methacrylate	U		0.0773	0.200
MTBE	U		0.0505	0.200
Naphthalene	U		0.154	0.630
2-Propanol	U		0.0882	1.25
Propene	0.194	J	0.0932	0.400
Styrene	U		0.0465	0.200
1,1,2,2-Tetrachloroethane	U		0.0576	0.200
Tetrachloroethylene	U		0.0497	0.200
Tetrahydrofuran	U		0.0508	0.200
Toluene	U		0.0499	0.200
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0665	0.200
1,1,2-Trichloroethane	U		0.0287	0.200
Trichloroethylene	U		0.0545	0.200
1,2,4-Trimethylbenzene	U		0.0483	0.200
1,3,5-Trimethylbenzene	U		0.0631	0.200
2,2,4-Trimethylpentane	U		0.0456	0.200
Vinyl chloride	U		0.0457	0.200
Vinyl Bromide	U		0.0727	0.200
Vinyl acetate	U		0.0639	0.200
m&p-Xylene	U		0.0946	0.400
o-Xylene	U		0.0633	0.200
Ethanol	U		0.0832	0.630
(S) 1,4-Bromofluorobenzene	*93.7*			*60.0-140*

Method Blank (MB) - TENTATIVELY IDENTIFIED COMPOUNDS

(MB) R3492215-3 01/19/20 10:26

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv	CAS #

Number of TICs found: 0

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3492215-1 01/19/20 09:12 • (LCSD) R3492215-2 01/19/20 09:50

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethanol	3.75	3.91	4.01	104	107	55.0-148			2.53	25
Propene	3.75	3.70	3.72	98.7	99.2	64.0-144			0.539	25
Dichlorodifluoromethane	3.75	4.09	3.98	109	106	64.0-139			2.73	25
1,2-Dichlorotetrafluoroethane	3.75	4.17	3.97	111	106	70.0-130			4.91	25
Chloromethane	3.75	4.24	4.04	113	108	70.0-130			4.83	25
Vinyl chloride	3.75	4.16	3.99	111	106	70.0-130			4.17	25
1,3-Butadiene	3.75	3.60	3.58	96.0	95.5	70.0-130			0.557	25
Bromomethane	3.75	3.93	3.94	105	105	70.0-130			0.254	25
Chloroethane	3.75	3.80	3.91	101	104	70.0-130			2.85	25
Trichlorofluoromethane	3.75	3.83	3.79	102	101	70.0-130			1.05	25
1,1,2-Trichlorotrifluoroethane	3.75	4.05	4.07	108	109	70.0-130			0.493	25
1,1-Dichloroethene	3.75	4.06	3.99	108	106	70.0-130			1.74	25
1,1-Dichloroethane	3.75	4.18	4.03	111	107	70.0-130			3.65	25
Acetone	3.75	3.90	4.13	104	110	70.0-130			5.73	25
2-Propanol	3.75	3.98	3.98	106	106	70.0-139			0.000	25
Carbon disulfide	3.75	4.09	3.99	109	106	70.0-130			2.48	25
Methylene Chloride	3.75	3.95	3.94	105	105	70.0-130			0.253	25
MTBE	3.75	4.02	4.08	107	109	70.0-130			1.48	25
trans-1,2-Dichloroethene	3.75	4.01	4.07	107	109	70.0-130			1.49	25
n-Hexane	3.75	4.29	4.24	114	113	70.0-130			1.17	25
Vinyl acetate	3.75	4.16	4.11	111	110	70.0-130			1.21	25
Methyl Ethyl Ketone	3.75	4.19	4.22	112	113	70.0-130			0.713	25
cis-1,2-Dichloroethene	3.75	4.22	4.11	113	110	70.0-130			2.64	25
Chloroform	3.75	4.07	4.11	109	110	70.0-130			0.978	25
Cyclohexane	3.75	4.24	4.31	113	115	70.0-130			1.64	25
1,1,1-Trichloroethane	3.75	4.06	4.15	108	111	70.0-130			2.19	25
Carbon tetrachloride	3.75	4.04	4.07	108	109	70.0-130			0.740	25
Benzene	3.75	4.13	4.12	110	110	70.0-130			0.242	25
1,2-Dichloroethane	3.75	4.12	3.95	110	105	70.0-130			4.21	25
Heptane	3.75	4.48	4.29	119	114	70.0-130			4.33	25
Trichloroethylene	3.75	4.04	4.08	108	109	70.0-130			0.985	25
1,2-Dichloropropane	3.75	4.40	4.21	117	112	70.0-130			4.41	25
1,4-Dioxane	3.75	4.05	4.19	108	112	70.0-140			3.40	25
Bromodichloromethane	3.75	4.12	4.09	110	109	70.0-130			0.731	25
cis-1,3-Dichloropropene	3.75	4.14	4.04	110	108	70.0-130			2.44	25
4-Methyl-2-pentanone (MIBK)	3.75	4.01	4.02	107	107	70.0-139			0.249	25
Toluene	3.75	4.27	4.09	114	109	70.0-130			4.31	25
trans-1,3-Dichloropropene	3.75	4.02	4.05	107	108	70.0-130			0.743	25
1,1,2-Trichloroethane	3.75	4.14	4.15	110	111	70.0-130			0.241	25
Tetrachloroethylene	3.75	4.09	4.10	109	109	70.0-130			0.244	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3492215-1 01/19/20 09:12 • (LCSD) R3492215-2 01/19/20 09:50

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Methyl Butyl Ketone	3.75	4.05	4.08	108	109	70.0-149			0.738	25
Dibromochloromethane	3.75	4.01	4.06	107	108	70.0-130			1.24	25
1,2-Dibromoethane	3.75	4.08	4.10	109	109	70.0-130			0.489	25
Chlorobenzene	3.75	4.13	4.10	110	109	70.0-130			0.729	25
Ethylbenzene	3.75	4.25	4.14	113	110	70.0-130			2.62	25
m&p-Xylene	7.50	8.53	8.48	114	113	70.0-130			0.588	25
o-Xylene	3.75	4.30	4.25	115	113	70.0-130			1.17	25
Styrene	3.75	4.27	4.27	114	114	70.0-130			0.000	25
Bromoform	3.75	3.99	4.00	106	107	70.0-130			0.250	25
1,1,2,2-Tetrachloroethane	3.75	4.16	4.09	111	109	70.0-130			1.70	25
4-Ethyltoluene	3.75	4.33	4.33	115	115	70.0-130			0.000	25
1,3,5-Trimethylbenzene	3.75	4.16	4.10	111	109	70.0-130			1.45	25
1,2,4-Trimethylbenzene	3.75	4.30	4.24	115	113	70.0-130			1.41	25
1,3-Dichlorobenzene	3.75	4.16	4.26	111	114	70.0-130			2.38	25
1,4-Dichlorobenzene	3.75	4.26	4.37	114	117	70.0-130			2.55	25
Benzyl Chloride	3.75	4.31	4.37	115	117	70.0-152			1.38	25
1,2-Dichlorobenzene	3.75	4.17	4.30	111	115	70.0-130			3.07	25
1,2,4-Trichlorobenzene	3.75	3.57	3.64	95.2	97.1	70.0-160			1.94	25
Hexachloro-1,3-butadiene	3.75	3.90	3.85	104	103	70.0-151			1.29	25
Naphthalene	3.75	3.69	3.71	98.4	98.9	70.0-159			0.541	25
Allyl Chloride	3.75	4.29	3.87	114	103	70.0-130			10.3	25
2-Chlorotoluene	3.75	4.19	4.25	112	113	70.0-130			1.42	25
Methyl Methacrylate	3.75	4.01	4.04	107	108	70.0-130			0.745	25
Tetrahydrofuran	3.75	3.99	4.16	106	111	70.0-137			4.17	25
2,2,4-Trimethylpentane	3.75	4.42	4.42	118	118	70.0-130			0.000	25
Vinyl Bromide	3.75	4.06	4.00	108	107	70.0-130			1.49	25
Isopropylbenzene	3.75	4.26	4.27	114	114	70.0-130			0.234	25
(S) 1,4-Bromofluorobenzene				*98.0*	*101*	*60.0-140*				

Method Blank (MB)

(MB) R3493286-3 01/22/20 10:54

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.0569	1.25
Allyl Chloride	U		0.0546	0.200
Benzene	U		0.0460	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0436	0.200
Bromoform	U		0.0786	0.600
Bromomethane	U		0.0609	0.200
1,3-Butadiene	U		0.0563	2.00
Carbon disulfide	U		0.0544	0.200
Carbon tetrachloride	U		0.0585	0.200
Chlorobenzene	U		0.0601	0.200
Chloroethane	U		0.0489	0.200
Chloroform	U		0.0574	0.200
Chloromethane	U		0.0544	0.200
2-Chlorotoluene	U		0.0605	0.200
Cyclohexane	U		0.0534	0.200
Dibromochloromethane	U		0.0494	0.200
1,2-Dibromoethane	U		0.0185	0.200
1,2-Dichlorobenzene	0.108	J	0.0603	0.200
1,3-Dichlorobenzene	0.136	J	0.0597	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0616	0.200
1,1-Dichloroethane	U		0.0514	0.200
1,1-Dichloroethene	U		0.0490	0.200
cis-1,2-Dichloroethene	U		0.0389	0.200
trans-1,2-Dichloroethene	U		0.0464	0.200
1,2-Dichloropropane	U		0.0599	0.200
cis-1,3-Dichloropropene	U		0.0588	0.200
trans-1,3-Dichloropropene	U		0.0435	0.200
1,4-Dioxane	U		0.0554	0.200
Ethylbenzene	U		0.0506	0.200
4-Ethyltoluene	U		0.0666	0.200
Trichlorofluoromethane	U		0.0673	0.200
Dichlorodifluoromethane	U		0.0601	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0687	0.200
1,2-Dichlorotetrafluoroethane	U		0.0458	0.200
Heptane	U		0.0626	0.200
Hexachloro-1,3-butadiene	U		0.0656	0.630
n-Hexane	U		0.0457	0.200
Isopropylbenzene	U		0.0563	0.200

Method Blank (MB)

(MB) R3493286-3 01/22/20 10:54

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Methylene Chloride	U		0.0465	0.200
Methyl Butyl Ketone	0.0859	J	0.0682	1.25
2-Butanone (MEK)	U		0.0493	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0650	1.25
Methyl Methacrylate	U		0.0773	0.200
MTBE	U		0.0505	0.200
Naphthalene	U		0.154	0.630
2-Propanol	U		0.0882	1.25
Propene	U		0.0932	0.400
Styrene	U		0.0465	0.200
1,1,2,2-Tetrachloroethane	U		0.0576	0.200
Tetrachloroethylene	U		0.0497	0.200
Tetrahydrofuran	U		0.0508	0.200
Toluene	U		0.0499	0.200
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0665	0.200
1,1,2-Trichloroethane	U		0.0287	0.200
Trichloroethylene	U		0.0545	0.200
1,2,4-Trimethylbenzene	U		0.0483	0.200
1,3,5-Trimethylbenzene	U		0.0631	0.200
2,2,4-Trimethylpentane	U		0.0456	0.200
Vinyl chloride	U		0.0457	0.200
Vinyl Bromide	U		0.0727	0.200
Vinyl acetate	U		0.0639	0.200
m&p-Xylene	U		0.0946	0.400
o-Xylene	U		0.0633	0.200
Ethanol	U		0.0832	0.630
(S) 1,4-Bromofluorobenzene	*90.7*			*60.0-140*

Method Blank (MB) - TENTATIVELY IDENTIFIED COMPOUNDS

(MB) R3493286-3 01/22/20 10:54

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv	CAS #

Number of TICs found: 0

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3493286-1 01/22/20 09:18 • (LCSD) R3493286-2 01/22/20 10:06

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethanol	3.75	3.91	3.58	104	95.5	55.0-148			8.81	25
Propene	3.75	3.47	3.50	92.5	93.3	64.0-144			0.861	25
Dichlorodifluoromethane	3.75	3.79	3.72	101	99.2	64.0-139			1.86	25
1,2-Dichlorotetrafluoroethane	3.75	3.74	3.74	99.7	99.7	70.0-130			0.000	25
Chloromethane	3.75	3.78	3.64	101	97.1	70.0-130			3.77	25
Vinyl chloride	3.75	3.80	3.74	101	99.7	70.0-130			1.59	25
1,3-Butadiene	3.75	3.65	3.62	97.3	96.5	70.0-130			0.825	25
Bromomethane	3.75	3.61	3.64	96.3	97.1	70.0-130			0.828	25
Chloroethane	3.75	3.75	3.76	100	100	70.0-130			0.266	25
Trichlorofluoromethane	3.75	3.76	3.75	100	100	70.0-130			0.266	25
1,1,2-Trichlorotrifluoroethane	3.75	3.65	3.75	97.3	100	70.0-130			2.70	25
1,1-Dichloroethene	3.75	3.73	3.64	99.5	97.1	70.0-130			2.44	25
1,1-Dichloroethane	3.75	3.74	3.67	99.7	97.9	70.0-130			1.89	25
Acetone	3.75	3.36	3.33	89.6	88.8	70.0-130			0.897	25
2-Propanol	3.75	3.76	3.73	100	99.5	70.0-139			0.801	25
Carbon disulfide	3.75	3.81	3.72	102	99.2	70.0-130			2.39	25
Methylene Chloride	3.75	3.79	3.78	101	101	70.0-130			0.264	25
MTBE	3.75	3.79	3.75	101	100	70.0-130			1.06	25
trans-1,2-Dichloroethene	3.75	3.77	3.73	101	99.5	70.0-130			1.07	25
n-Hexane	3.75	3.71	3.74	98.9	99.7	70.0-130			0.805	25
Vinyl acetate	3.75	3.16	3.15	84.3	84.0	70.0-130			0.317	25
Methyl Ethyl Ketone	3.75	3.89	3.84	104	102	70.0-130			1.29	25
cis-1,2-Dichloroethene	3.75	3.59	3.53	95.7	94.1	70.0-130			1.69	25
Chloroform	3.75	3.75	3.70	100	98.7	70.0-130			1.34	25
Cyclohexane	3.75	3.73	3.68	99.5	98.1	70.0-130			1.35	25
1,1,1-Trichloroethane	3.75	3.77	3.59	101	95.7	70.0-130			4.89	25
Carbon tetrachloride	3.75	3.76	3.72	100	99.2	70.0-130			1.07	25
Benzene	3.75	3.76	3.72	100	99.2	70.0-130			1.07	25
1,2-Dichloroethane	3.75	3.65	3.64	97.3	97.1	70.0-130			0.274	25
Heptane	3.75	4.44	4.52	118	121	70.0-130			1.79	25
Trichloroethylene	3.75	3.74	3.86	99.7	103	70.0-130			3.16	25
1,2-Dichloropropane	3.75	3.67	3.68	97.9	98.1	70.0-130			0.272	25
1,4-Dioxane	3.75	3.81	3.91	102	104	70.0-140			2.59	25
Bromodichloromethane	3.75	3.71	3.67	98.9	97.9	70.0-130			1.08	25
cis-1,3-Dichloropropene	3.75	3.65	3.63	97.3	96.8	70.0-130			0.549	25
4-Methyl-2-pentanone (MIBK)	3.75	3.75	3.80	100	101	70.0-139			1.32	25
Toluene	3.75	3.72	3.76	99.2	100	70.0-130			1.07	25
trans-1,3-Dichloropropene	3.75	3.74	3.80	99.7	101	70.0-130			1.59	25
1,1,2-Trichloroethane	3.75	3.85	3.85	103	103	70.0-130			0.000	25
Tetrachloroethylene	3.75	3.66	3.79	97.6	101	70.0-130			3.49	25

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3493286-1 01/22/20 09:18 • (LCSD) R3493286-2 01/22/20 10:06

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Methyl Butyl Ketone	3.75	3.73	3.80	99.5	101	70.0-149			1.86	25
Dibromochloromethane	3.75	3.74	3.77	99.7	101	70.0-130			0.799	25
1,2-Dibromoethane	3.75	3.88	4.05	103	108	70.0-130			4.29	25
Chlorobenzene	3.75	3.80	3.87	101	103	70.0-130			1.83	25
Ethylbenzene	3.75	3.78	3.78	101	101	70.0-130			0.000	25
m&p-Xylene	7.50	7.56	7.50	101	100	70.0-130			0.797	25
o-Xylene	3.75	3.72	3.74	99.2	99.7	70.0-130			0.536	25
Styrene	3.75	3.90	3.91	104	104	70.0-130			0.256	25
Bromoform	3.75	3.85	3.81	103	102	70.0-130			1.04	25
1,1,2,2-Tetrachloroethane	3.75	3.86	3.79	103	101	70.0-130			1.83	25
4-Ethyltoluene	3.75	3.98	3.83	106	102	70.0-130			3.84	25
1,3,5-Trimethylbenzene	3.75	3.70	3.78	98.7	101	70.0-130			2.14	25
1,2,4-Trimethylbenzene	3.75	3.93	3.88	105	103	70.0-130			1.28	25
1,3-Dichlorobenzene	3.75	4.08	4.05	109	108	70.0-130			0.738	25
1,4-Dichlorobenzene	3.75	3.53	3.49	94.1	93.1	70.0-130			1.14	25
Benzyl Chloride	3.75	3.56	3.50	94.9	93.3	70.0-152			1.70	25
1,2-Dichlorobenzene	3.75	4.21	4.22	112	113	70.0-130			0.237	25
1,2,4-Trichlorobenzene	3.75	4.59	4.53	122	121	70.0-160			1.32	25
Hexachloro-1,3-butadiene	3.75	3.87	3.83	103	102	70.0-151			1.04	25
Naphthalene	3.75	3.78	3.85	101	103	70.0-159			1.83	25
Allyl Chloride	3.75	3.62	3.78	96.5	101	70.0-130			4.32	25
2-Chlorotoluene	3.75	3.85	3.80	103	101	70.0-130			1.31	25
Methyl Methacrylate	3.75	3.99	3.91	106	104	70.0-130			2.03	25
Tetrahydrofuran	3.75	3.83	3.82	102	102	70.0-137			0.261	25
2,2,4-Trimethylpentane	3.75	3.76	3.71	100	98.9	70.0-130			1.34	25
Vinyl Bromide	3.75	3.94	3.81	105	102	70.0-130			3.35	25
Isopropylbenzene	3.75	3.64	3.67	97.1	97.9	70.0-130			0.821	25
(S) 1,4-Bromofluorobenzene				*101*	*101*	*60.0-140*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
N	The analyte is tentatively identified and the associated numerical value may not be consistent with the actual concentration present in the sample.

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

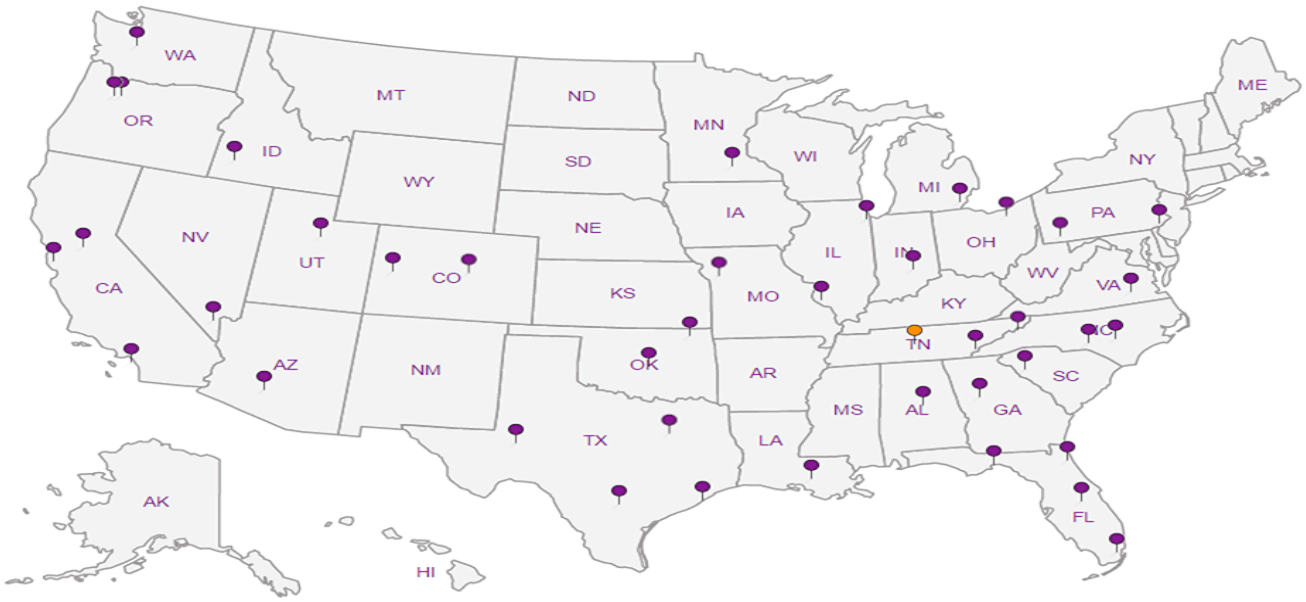
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



Leader Environmental

271 Marsh Road
Suite 2
Pittsford, NY 14534

Billing Information:
Accounts Payable
271 Marsh Road, Suite 2
Pittsford, NY 14534

Report to: Pete von Schondorf / Rob Murphy
Email To: pvonschondorf@leaderlink.com RMurphy@leaderlink.com

Project Description: Bison 1
City/State Collected: Tonawanda, NY
Please Circle: PT MT CT (ET)

Phone: 585-248-2413
Fax:

Client Project # 235.198A
Lab Project # LEADERPNY-AIR

Collected by (print): Rob Murphy
Site/Facility ID #
P.O. #

Collected by (signature):
Immediately Packed on Ice N ___ Y ___

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day
Date Results Needed

Quote #

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TO-15 Summa	Remarks	Sample # (lab only)
SV-1		Air		1/13/20	15:08	1	✓		-01
Duplicate - Inside		Air		1/13/20	15:21	1	✓		-02
Indoor - 1		Air		1/15/20	15:21	1	✓		-03
SS-1		Air		1/15/20	15:21	1	✓		-04
Matrix Spike - Indoor		Air		1/15/20	15:21	1	✓		~~-07~~ -10
MS - Duplicate		Air		1/13/20	15:21	1	✓		~~-08~~ -11
Outdoor - 1		Air		1/13/20	15:14	1	✓		-05
SS-2 - ~~Pulled~~ RM		Air		1/13/20	15:29	1	✓		-06
SV-2 - Pulled		Air		1/13/20	08:19	1			~~-07~~ CM

Analysis / Container / Preservative

Pres Chk

Chain of Custody Page ___ of ___

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

SDG # L1180201
M052

Acctnum: LEADERPNY
Template: T159701
Prelogin: P742544
PM: 464 - Nancy McLain
PB: CSG 11/27/19
Shipped Via: FedEX Ground

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: * Lab report must satisfy NYSDOH Cat B and EDD Compliant

pH _____ Temp _____
Flow _____ Other _____

Samples returned via: ___ UPS ✓ FedEx ___ Courier _____
Tracking #

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		Y N

Relinquished by : (Signature) Robert C Murphy	Date: 1/15/20	Time: 13:13	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb °C Bottles Received: 9
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 1/16/20 Time: 9:00

If preservation required by Login: Date/Time

Hold:

Condition: (NCF) / OK



Login #: L1180201	Client: LEADERPNY	Date:01/16/20	Evaluated by:Cole Medley

Non-Conformance (check applicable items)

	Sample Integrity		Chain of Custody Clarification		
	Parameter(s) past holding time		Login Clarification Needed		**If Broken Container:**
	Temperature not in range		Chain of custody is incomplete		Insufficient packing material around container
	Improper container type		Please specify Metals requested.		Insufficient packing material inside cooler
	pH not in range.		Please specify TCLP requested.		Improper handling by carrier (FedEx / UPS / Cour
	Insufficient sample volume.		Received additional samples not listed on coc.		Sample was frozen
	Sample is biphasic.		Sample ids on containers do not match ids on coc		Container lid not intact
	Vials received with headspace.		Trip Blank not received.		**If no Chain of Custody:**
	Broken container	X	Client did not "X" analysis.		Received by:
	Broken container:		Chain of Custody is missing		Date/Time:
	Sufficient sample remains				Temp./Cont. Rec./pH:
					Carrier:
					Tracking#

Login Comments: Client did not "X" analysis for ID: SV-2- Pulled.
Logged per analysis on COC.

Client informed by:		Call		Email X		Voice Mail		Date: 1/17/2020	Time: 9:33am
TSR Initials: NM	Client Contact:								

Login Instructions:

COC has 9 summas returned and lists 9 summas on the COC. Only 7 logged. Please log these samples for TO-15: Matrix Spike – Indoor and MS-Duplicate

APPENDIX B

SOIL BORING AND WELL CONSTRUCTION LOGS

Data Usability Summary Report
December 2019 Sampling Event
Bisonite Site
Tonawanda, New York
MEHC Project No. 14-223

DATA USABILITY

The Quality Assurance Project Plan ("QAPP") was prepared for this project by Leader Professional Services, Inc. ("LPSI"). The QAPP presents the policies, organization, objectives, functional activities, and specific Quality Assurance ("QA") and Quality Control ("QC") measures designed to achieve the data quality goals associated with this investigation. The QAPP identifies procedures for sample preparation and handling, sample chain-of-custody, laboratory analyses, and reporting that were implemented during this investigation to ensure the accuracy and integrity of the data generated during the investigation.

LPSI conducted the sampling event as part of the Remedial Investigation and Supplemental Investigation activities of the Bisonite Property ("Site") in Tonawanda, New York.

DATA SUMMARY

The Data Usability Review and Data Validation Compliance Chart has been completed for the laboratory deliverable packages generated by ALS Laboratories ("ALS"), pertaining to samples collected on the Site on December 4 and 5, 2019. A total of 28 samples were collected, including Quality Control sample, during the December 2019 sampling event as part of 6 NYCRR Part 375, Environmental Remediation Programs. The following USEPA Methodologies were used to analyze these samples for the following analytes:

Volatile Organic Compounds ("VOCs")	USEPA Method 8260
Semi-Volatile Organics ("SVOCs")	USEPA Method 8270D
PFAS (Per- and Polyfluoroalkyl Substances)	USEPA Method 573
Pesticides/Herbicides	USEPA Method 8081/8151A
Polychlorinated Compounds	USEPA Method 8082A
Metals	USEPA Method 3050B/6010D
Mercury	USEPA Method 7471B
Cyanide	USEPA Method 9012B
Total Solids	USEPA Method 1684

Trip blank, field duplicate, surrogates, internal standards, reference samples, field (equipment) blank, matrix spikes, and matrix spike duplicates were included in the sample set and processed.

Samples were collected and received on the following schedule:

Sample Data Group ("SDG")	Date Collected	Date Received by ALS	Sample Matrix	Requested Analyses	Sample Temperature (°C)
R1911944 R1911945 R1911946	12/4/2019 12/5/2019	12/5/2019	Soil (23 Samples)	VOCs 8260 SVOCs 8270 PFAS Pesticides/Herbicides PCBs Metals Mercury Cyanide Total Solids	Coolers: A – 3.1°C B – 3.0°C C – 19.9°C D – 19.1°C E – 4.6°C F – 2.8°C G – 5.8°C
R1911944	12/5/2019	12/11/2019 ALS Kelso	Soil (3 Samples)	PFAS	Coolers: 0.1°C

Data usability and validation was performed with guidance from the most current editions of the USEPA CLP National Functional Guidelines for Inorganic and Organic Data Review. The following items were reviewed:

- Data Completeness;
- Custody Documentation;
- Holding Times;
- Sample Blanks Review;
- Field Duplicate Samples;
- Matrix Spike Samples and Duplicates; and
- Control Spike/Laboratory Control Samples.

Those items showing deficiencies, if any, are discussed in the attached Data Validation Compliance Chart. All others were found to be acceptable as outlined in the above-mentioned usability procedures, and as applicable for the methodology. Unless noted specifically in the following text, reported results are substantiated by the reported data, and generated in compliance with protocol requirements.

The following sample results are acceptable but confirmatory sampling was out of range. The lower results were reported:

SDG R1911945 and R1911946

- SB-3 (4-6 feet): beta-BHC is qualified with a P (Concentration >40% difference between the two GC columns).
- SB-7 (4-5 feet): Endrin and heptachlor is qualified with a P (Concentration >40% difference between the two GC columns).
- SB-7 (6-8 feet): delta-BHC is qualified with a P (Concentration >40% difference between the two GC columns).

In summary, sample preservation, handling, and processing was conducted with compliance to protocol requirements and with adherence to quality criteria and the reported results are considered "usable".

The Data Validation Compliance Chart is included with this report.

CUSTODY DOCUMENTATION

Chain of Custody ("COC") forms are used to document the history of sample possession from the time the sample containers leave their point of origin (usually the laboratory performing the analyses) to the time the samples are received by the laboratory. COCs are considered legal documents.

The laboratory report, R1911944, 1911945, and 1911946, associated with the 23 soil samples collected on December 4 and 5, 2019 is detailed below:

1. SB-1: 1-2 feet
2. SB-2: 1-2 feet; 4-6 feet; 10-17 feet; and 17-18 feet
3. SB-3: 1-2 feet; 4-6 feet; 10-17 feet
4. SB-8: 1-2 feet; 6-8 feet
5. SB-9: 2-4 feet; 11-13 feet
6. SB-10: 2-4 feet; 12-14 feet
7. SB-11: 1-2 feet; 6-8 feet (duplicate, matrix spike, and matrix spike duplicate)
8. SS-1
9. SS-2
10. SS-3
11. SS-4

Sample SB-11 (6-8 feet) was collected in duplicate as well as the Matrix Spike (MS) and Matrix Spike Duplicate (MSD).

The Chain of Custody ("COC") documents the sample collection efforts. There were no discrepancies on the COC.

PRESERVATION AND TECHNICAL HOLDING TIMES

Two (2) of the cooler temperatures were 19.9°C and 19.1°C, above the 6.0°C limit; however, the samples were delivered the same day as the sample collection. This is considered the "Same Day Rule" and does not adversely impact the sampling results.

All sample holding times were met.

ACCURACY, PRECISION, AND SENSITIVITY OF ANALYSES

The fundamental QA objective with respect to the accuracy, precision, and sensitivity of analytical data is to achieve the QC acceptance of each analytical protocol. Accuracy and precision are determined using matrix spike ("MS") and matrix spike duplicate ("MSD") samples.

Accuracy is a measure of the difference of a set of analytical results to the accepted or expected values. Accuracy was assessed by using the MS/MSD and surrogate spike recovery data.

Recovery values were reported within the QC limits for each analytical parameter group.

Precision is a measure of the mutual agreement between measurements of the same parameter.

The sample results for the Site are considered "usable".

COMPLETENESS, REPRESENTATIVENESS, AND COMPARABILITY OF DATA

Completeness is the measure of the amount of valid data obtained from a measurement system compared with the amount expected to be obtained under normal conditions. Review of the analytical data packages provided by ALS indicates that the requested parameters were analyzed for and reported by the laboratory for each sample submitted under proper chain-of-custody procedures. Based upon MEHC's review of the laboratory data, a usable data level was achieved.

Representativeness of the data is obtained through the design of the sampling program and the adherence to established sample collection procedures, sample-handling SOPs, and analytical procedures. The sampling program outlined in the Work Plan was designed to provide for data representative of site conditions taking into consideration past disposal practices, existing data from past studies, and the physical site setting. Collection of the soil samples were conducted in accordance with established industry and regulatory protocols.

The laboratory maintained all holding times for the specific analytical protocols.

Comparability of the data is derived from the evaluation of field duplicate samples and the adherence to established sampling and analytical procedures. A field duplicate is an independent sample collected as close as possible to the original location from the same sampling point. All of the soil samples were analyzed utilizing standardized USEPA methodologies performed in accordance with the latest version of the NYSDEC ASP protocols.

QUALITY CONTROL CHECKS

Trip Blanks

A trip blank is provided with each shipping container of samples to be analyzed for volatile organic compounds (VOCs). Analysis of trip blanks determines whether a sample bottle was contaminated during shipment from the manufacturer, while in bottle storage, in shipment to the laboratory, or during analysis at a laboratory. Trip blanks consist of an aliquot of distilled water sealed in a sample bottle, prepared by the analytical laboratory prior to shipping the sample bottles.

A Trip blank was included with the shipment of the soil samples.

Field (Equipment) Blanks

A field (equipment) blank was collected on December 5, 2019 as part of this project.

Method Blanks

A method blank is a sample of reagent water, which is carried through the analytical procedure alongside the project samples to determine the level of laboratory background and reagent contamination.

For this investigation, a method blank was analyzed alongside the water samples collected on December 4 and 5, 2019. Acetone was detected in the Method Blank and attributed to the preservative in the vial.

Matrix Spike/Matrix Spike Duplicate Samples

For the Site, one (1) MS/MSD was collected and analyzed for the soil samples. The sample results are considered acceptable and were within the control limits.

These results are detailed in the Data Validation Compliance Chart.

Surrogate Analyses

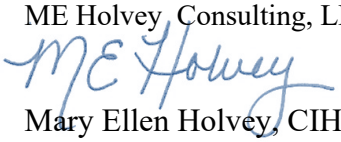
Surrogates are compounds added directly to every standard, blank, MS/MSD, and sample at a known concentration, prior to extraction or analysis; and used to evaluate the analytical efficiency by measuring percent recovery of those compounds upon analysis. The laboratory reported surrogate recoveries were within established QC limits for the surrogates with the exception of the following sample.

OVERALL ASSESSMENT

As was determined by this evaluation, the laboratory followed the specified analytical methods. Accuracy was acceptable as demonstrated by the surrogate, laboratory control sample/laboratory control samples (LCS), and MS/MSD, % Recovery values, with the exceptions noted in the above narrative.

The sample results for the Site, as qualified, are considered acceptable for use.

PREPARED BY: ME Holvey Consulting, LLC



Mary Ellen Holvey, CIH
Senior Industrial Hygienist

March 30, 2020

.

Data Validation Compliance Chart
Bisonite
Tonawanda, New York

December 4 and 5, 2019 Sampling Event

Sample Data Group (SDG)	**R1911944, R1911945, and R1911946**				
Matrix	**Soil**				
Analysis	**VOCs 8260**	**SVOCs 8270**	**Metals Mercury**	**Herbicides/Pesticides/ PCBs**	**Cyanide**
Holding Times	Samples were extracted and analyzed within USEPA holding times				
Sample Preservation	The samples were collected and preserved in accordance with laboratory protocols.				
Calibration	The upper and lower control limits were exceeded for one or more analytes in the CCV. There were no detections in the field samples above the MRL. The data was not significantly affected.		In the calibrations, all criteria were within method requirements.	The upper and lower control limits were exceeded for one or more analytes in the CCV. There were no detections in the field samples above the MRL. The data was not significantly affected.	In the calibrations, all criteria were within method requirements.
Method Blanks	Acetone was detected and determined to be cause by the preservative in the sample vial. All other data quality objectives were satisfied.	All data quality objectives were satisfied.			
Detection Limits	No issues identified.				No issues identified.
Matrix Spike/Matrix Spike Duplicate	All data quality objectives were satisfied.	All data quality objectives were satisfied.	All data quality objectives were satisfied.	All data quality objectives were satisfied.	All data quality objectives were satisfied.

Data Validation Compliance Chart
Bisonite
Tonawanda, New York

December 4 and 5, 2019 Sampling Event

Sample Data Group (SDG)	R1911944, R1911945, and R1911946				
Matrix	**Soil**				
Analysis	**VOCs 8260**	**SVOCs 8270**	**Metals Mercury**	**Herbicides/Pesticides/ PCBs**	**Cyanide**
Surrogates	All data quality objectives were satisfied.	All data quality objectives were satisfied.	All data quality objectives were satisfied.	R1911946-008 (SS-1), -010 (SS-3), -011 (SS-4): The control limits were exceeded for one or more surrogates due to matrix interferences. Due to the presence of non-target background components that prevented adequate resolution of the surrogate, accurate quantitation was not possible. All other data quality objectives were satisfied.	All data quality objectives were satisfied.
Internal Standards	All data quality objectives were satisfied.	All data quality objectives were satisfied.	All data quality objectives were satisfied.	All data quality objectives were satisfied.	All data quality objectives were satisfied.
Laboratory Control Sample	All laboratory internal quality control samples were within acceptable ranges.		The RPD for SB4 (1-2 feet) was exceeded from a serial dilution due to a matrix interference. All other data quality objectives were satisfied.	All laboratory internal quality control samples were within acceptable ranges.	
Data Usability	Data is acceptable for use.	Data is acceptable for use.	Data is acceptable for use.	Data is acceptable for use.	Data is acceptable for use.

Data Validation Compliance Chart
Bisonite
Tonawanda, New York

December 4 and 5, 2019 Sampling Event

Sample ID	**R1911944**	
Matrix	**Soils**	
Analysis	**SVOCs (1,4-Dioxane)**	**PFAS**
Holding Times	Samples were extracted and analyzed within USEPA holding times.	
Calibration	In the initial and continuing calibrations were within method requirements. All quality assurance parameters were met for this analysis.	The Upper Control Limit (UCL) for PFOS in the CCV was exceeded for two (2) samples. The field samples did not contain the analyte in question. Data quality was not affected. All quality assurance parameters were met for these analyses.
Detection Limits	No issues identified.	
Method Blanks	All quality assurance parameters were met for this analysis.	All quality assurance parameters were met for these analyses.
Matrix Spike/Matrix Spike Duplicate	All quality assurance parameters were met for this analysis.	All quality assurance parameters were met for this analysis

Data Validation Compliance Chart
Bisonite
Tonawanda, New York

December 4 and 5, 2019 Sampling Event

Sample ID	**R1911944**	
Matrix	**Soils**	
Analysis	**SVOCs (1,4-Dioxane)**	**PFAS**
Surrogates	All quality assurance parameters were met for this analysis.	All quality assurance parameters were met for these analyses.
Internal Standards	All quality assurance parameters were met for this analysis.	All quality assurance parameters were met for these analyses.
Reference Sample	All quality assurance parameters were met for this analysis.	All quality assurance parameters were met for these analyses.
Data Usability	Data is acceptable for use.	Data is acceptable for use.

Data Validation Compliance Chart
Bisonite
Tonawanda, New York

December 4 and 5, 2019 Sampling Event

Data Usability Summary Report
January 2020 Sampling Event
Bisonite Site
Tonawanda, New York
MEHC Project No. 14-223

DATA USABILITY

The Quality Assurance Project Plan ("QAPP") was prepared for this project by Leader Professional Services, Inc. ("LPSI"). The QAPP presents the policies, organization, objectives, functional activities, and specific Quality Assurance ("QA") and Quality Control ("QC") measures designed to achieve the data quality goals associated with this investigation. The QAPP identifies procedures for sample preparation and handling, sample chain-of-custody, laboratory analyses, and reporting that were implemented during this investigation to ensure the accuracy and integrity of the data generated during the investigation.

LPSI conducted the sampling event as part of the Remedial Investigation and Supplemental Investigation activities of the Bisonite Property ("Site") in Tonawanda, New York.

DATA SUMMARY

The Data Usability Review and Data Validation Compliance Chart has been completed for the laboratory deliverable packages generated by ALS Laboratories ("ALS"), pertaining to samples collected on the Site on January 27 and 28, 2020. A total of nine (9) water samples were collected, including Quality Control sample, during the January 2020 sampling event as part of 6 NYCRR Part 375, Environmental Remediation Programs. The following USEPA Methodologies were used to analyze these samples for the following analytes:

Volatile Organic Compounds ("VOCs")	USEPA Method 8260
Semi-Volatile Organics ("SVOCs")	USEPA Method 8270D
PFAS (Per- and Polyfluoroalkyl Substances)	USEPA Method 573
Pesticides/Herbicides	USEPA Method 8081/8151A
Polychlorinated Compounds	USEPA Method 8082A
Metals	USEPA Method 3050B/6010D
Mercury	USEPA Method 7471B
Cyanide	USEPA Method 9012B
Total Solids	USEPA Method 1684

Trip blank, field duplicate, surrogates, internal standards, reference samples, field (equipment) blank, matrix spikes, and matrix spike duplicates were included in the sample set and processed.

Samples were collected and received on the following schedule:

Sample Data Group ("SDG")	Date Collected	Date Received by ALS	Sample Matrix	Requested Analyses	Sample Temperature (°C)
R2000775	1/27/2020 1/28/2020	1/28/2020	Groundwater (9 Samples)	VOCs 8260 SVOCs 8270 PFAS Pesticides/Herbicides PCBs Metals Mercury Cyanide Total Solids	Coolers: A – 3.4°C B – 1.8°C C – 1.9°C D – 0.9°C E – 1.5°C F – 0.8°C G – 1.3°C H – 0.4°C I – 0.9°C

Data usability and validation was performed with guidance from the most current editions of the USEPA CLP National Functional Guidelines for Inorganic and Organic Data Review. The following items were reviewed:

- Data Completeness;
- Custody Documentation;
- Holding Times;
- Sample Blanks Review;
- Field Duplicate Samples;
- Matrix Spike Samples and Duplicates; and
- Control Spike/Laboratory Control Samples.

Those items showing deficiencies, if any, are discussed in the attached Data Validation Compliance Chart. All others were found to be acceptable as outlined in the above-mentioned usability procedures, and as applicable for the methodology. Unless noted specifically in the following text, reported results are substantiated by the reported data, and generated in compliance with protocol requirements.

The following sample results are acceptable but confirmatory sampling was out of range. The lower results were reported:

- MW-4 4'4'-DDT and beta-BHC is qualified with a P (Concentration >40% difference between the two GC columns).
- MW-4 FP: delta-BHC is qualified with a P (Concentration >40% difference between the two GC columns).

In summary, sample preservation, handling, and processing was conducted with compliance to protocol requirements and with adherence to quality criteria and the reported results are considered "usable".

The Data Validation Compliance Chart is included with this report.

CUSTODY DOCUMENTATION

Chain of Custody ("COC") forms are used to document the history of sample possession from the time the sample containers leave their point of origin (usually the laboratory performing the

analyses) to the time the samples are received by the laboratory. COCs are considered legal documents.

The laboratory report, R2000775, associated with the nine (9) groundwater samples collected on January 27 and 28, 2020 is detailed below:

1. MW-4
2. MW-4 FP
3. MW-1
4. MW-2
5. MW-2 Duplicate
6. MW-3
7. MW-5
8. Equipment Blank
9. Field Blank

Sample MW-2 was collected in duplicate as well as the Matrix Spike (MS) and Matrix Spike Duplicate (MSD).

The Chain of Custody ("COC") documents the sample collection efforts. There were no discrepancies on the COC.

PRESERVATION AND TECHNICAL HOLDING TIMES

The laboratory noted that one (1) VOA vial of MW-1, MW-2, MW-3, and the Trip Blank contained air bubbles. The laboratory also noted that two (2) VOA vials of MW-4 contained air bubbles. The additional vials of each sample did not contain air bubbles and were used for the analytical testing.

The cooler temperatures were below the 6.0°C limit.

All sample holding times were met.

ACCURACY, PRECISION, AND SENSITIVITY OF ANALYSES

The fundamental QA objective with respect to the accuracy, precision, and sensitivity of analytical data is to achieve the QC acceptance of each analytical protocol. Accuracy and precision are determined using matrix spike ("MS") and matrix spike duplicate ("MSD") samples.

Accuracy is a measure of the difference of a set of analytical results to the accepted or expected values. Accuracy was assessed by using the MS/MSD and surrogate spike recovery data.

Recovery values were reported within the QC limits for each analytical parameter group.

Precision is a measure of the mutual agreement between measurements of the same parameter.

The sample results for the Site are considered "usable".

COMPLETENESS, REPRESENTATIVENESS, AND COMPARABILITY OF DATA

Completeness is the measure of the amount of valid data obtained from a measurement system compared with the amount expected to be obtained under normal conditions. Review of the analytical data packages provided by ALS indicates that the requested parameters were analyzed for and reported by the laboratory for each sample submitted under proper chain-of-custody procedures. Based upon MEHC's review of the laboratory data, a usable data level was achieved.

Representativeness of the data is obtained through the design of the sampling program and the adherence to established sample collection procedures, sample-handling SOPs, and analytical procedures. The sampling program outlined in the Work Plan was designed to provide for data representative of site conditions taking into consideration past disposal practices, existing data from past studies, and the physical site setting. Collection of the groundwater samples were conducted in accordance with established industry and regulatory protocols.

The laboratory maintained all holding times for the specific analytical protocols.

Comparability of the data is derived from the evaluation of field duplicate samples and the adherence to established sampling and analytical procedures. A field duplicate is an independent sample collected as close as possible to the original location from the same sampling point. All of the groundwater samples were analyzed utilizing standardized USEPA methodologies performed in accordance with the latest version of the NYSDEC ASP protocols.

QUALITY CONTROL CHECKS

Trip Blanks

A trip blank is provided with each sampling event to be analyzed for volatile organic compounds (VOCs). Analysis of trip blanks determines whether a sample bottle was contaminated during shipment from the manufacturer, while in bottle storage, in shipment to the laboratory, or during analysis at a laboratory. Trip blanks consist of an aliquot of distilled water sealed in a sample bottle, prepared by the analytical laboratory prior to shipping the sample bottles.

A Trip blank was included with the shipment of the groundwater samples.

Field (Equipment) Blanks

A field (equipment) blank was collected on January 27, 2020 as part of this project.

Method Blanks

A method blank is a sample of reagent water, which is carried through the analytical procedure alongside the project samples to determine the level of laboratory background and reagent contamination.

For this investigation, a method blank was analyzed alongside the water samples collected on January 27 and 28, 2020 There were no VOCs detected in the Method Blank.

Matrix Spike/Matrix Spike Duplicate Samples

For the Site, one (1) MS/MSD was collected and analyzed for the groundwater samples. The sample results are considered acceptable and were within the control limits.

These results are detailed in the Data Validation Compliance Chart.

Surrogate Analyses

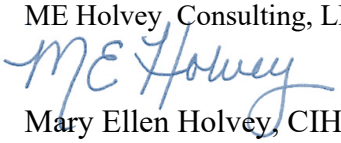
Surrogates are compounds added directly to every standard, blank, MS/MSD, and sample at a known concentration, prior to extraction or analysis; and used to evaluate the analytical efficiency by measuring percent recovery of those compounds upon analysis. The laboratory reported surrogate recoveries were within established QC limits for the surrogates with the exception of the following sample.

OVERALL ASSESSMENT

As was determined by this evaluation, the laboratory followed the specified analytical methods. Accuracy was acceptable as demonstrated by the surrogate, laboratory control sample/laboratory control samples (LCS), and MS/MSD, % Recovery values, with the exceptions noted in the above narrative.

The sample results for the Site, as qualified, are considered acceptable for use.

PREPARED BY: ME Holvey Consulting, LLC



Mary Ellen Holvey, CIH
Senior Industrial Hygienist

April 8, 2020

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Data Validation Compliance Chart
Bisonite
Tonawanda, New York

January 27 and 28, 2020 Sampling Event

Sample Data Group (SDG)	**R2000775**				
Matrix	**Groundwater**				
Analysis	**VOCs 8260**	**SVOCs 8270**	**Metals Mercury**	**Herbicides/Pesticides/ PCBs**	**Cyanide**
Holding Times	Samples were extracted and analyzed within USEPA holding times				
Sample Preservation	The samples were collected and preserved in accordance with laboratory protocols.				
Calibration	The lower control limits were exceeded for one or more analytes in the CCV. There were no detections in the field samples above the MRL. The data was not significantly affected.	The upper and lower control limits were exceeded for one or more analytes in the CCV. There were no detections in the field samples above the MRL. The data was not significantly affected.	In the calibrations, all criteria were within method requirements.	The upper and lower control limits were exceeded for one or more analytes in the CCV. There were no detections in the field samples above the MRL. The data was not significantly affected.	In the calibrations, all criteria were within method requirements.
Method Blanks	All data quality objectives were satisfied.				
Detection Limits	No issues identified.		Samples MW-4 and MW-4 FP had elevated MRL for Selenium and were diluted. The reporting limits for the other metals were adjusted.	No issues identified.	
Matrix Spike/Matrix Spike Duplicate	All data quality objectives were satisfied.				

Data Validation Compliance Chart
Bisonite
Tonawanda, New York

January 27 and 28, 2020 Sampling Event

Sample Data Group (SDG)	**R2000775**				
Matrix	**Groundwater**				
Analysis	**VOCs 8260**	**SVOCs 8270**	**Metals Mercury**	**Herbicides/Pesticides/ PCBs**	**Cyanide**
Surrogates	All data quality objectives were satisfied.				
Internal Standards	All data quality objectives were satisfied.				
Laboratory Control Sample	All laboratory internal quality control samples were within acceptable ranges.				

Data Usability Summary Report
January 2020 Sampling Event
Bisonite Site
MEHC Project No. 14-223

EXECUTIVE SUMMARY

This Data Usability Summary Report is for the Indoor Air Sampling Event at the Bisonite Site ("Site"). The sampling event was conducted by Leader Professional Services, Inc. ("LPSI") on January 13, 2020 which included indoor and outdoor air sampling using stainless steel canisters.

The review of the data was evaluated for the following levels of uncertainty:

- **Critical** – Results have an unacceptable level of uncertainty and should not be used for making decisions. Data have been qualified "R" rejected.
- **Major** – A level of uncertainty exists that may not meet the data quality objectives for the project. A bias is likely to be present in the results. Data have been qualified "J" estimated.
- **Minor** – The level of uncertainty is acceptable. No significant bias in the data was observed.

Critical Findings: None
Major Findings: None
Minor Findings: None

The data meets all quality control and quality assurance objectives.

DATA USABILITY

The Quality Assurance Project Plan ("QAPP") was prepared for this project by LPSI. The QAPP presents the policies, organization, objectives, functional activities, and specific Quality Assurance ("QA") and Quality Control ("QC") measures designed to achieve the data quality goals associated with this investigation. The QAPP identifies procedures for sample preparation and handling, sample chain-of-custody, laboratory analyses, and reporting that were implemented during this investigation to ensure the accuracy and integrity of the data generated during the investigation.

LPSI conducted the Interim Remedial Measures and indoor air sampling at the Site. The Indoor Air Sampling was conducted by LPSI and submitted for analysis to Pace Analytical ("Pace") by USEPA Method TO-15.

SAMPLE SUMMARY

The Data Usability Review and Data Validation Compliance Chart has been completed for the laboratory deliverable packages generated by Pace, pertaining to samples collected for the Site Investigation on January 13, 2020. A total of five (5) air samples were collected during the January 2020 sampling event and analyzed for Volatile Organic Compounds ("VOCs") including quality control samples.

The following USEPA Methodologies were used to analyze these samples for the following analytes:

Volatiles (VOCs)	USEPA Method TO-15
Sample Delivery Group (SDG) No.	L1180201

Trip blanks, surrogates, internal standards, laboratory control samples, laboratory matrix spikes, and duplicates were included and processed.

Samples were collected and received on the following schedule:

Sample Package ID	Date Collected	Date Received by Pace	Sample Matrix	Requested Analyses	Sample (Post) Vacuum (in Hg)
L1180201	1/13/2020	1/16/2020	Air	USEPA TO-15	Not Identified

Data usability and validation was performed with guidance from the most current editions of the USEPA CLP National Functional Guidelines for Inorganic and Organic Data Review. The following items were reviewed:

- Data Completeness;
- Custody Documentation;
- Holding Times;
- Sample Blanks Review;
- Field Duplicate Samples;
- Matrix Spike Samples and Duplicates; and
- Laboratory Control Spike/Laboratory Control Samples.

Those items showing deficiencies, if any, are discussed in the attached Data Validation Compliance Chart. All of the reviewed data was found to be acceptable as outlined in the above-mentioned usability procedures, and as applicable for the methodology. Unless noted specifically in the following text, reported results are substantiated by the reported data and generated in compliance with protocol requirements.

In summary, sample processing was conducted with compliance to protocol requirements and with adherence to quality criteria and the reported results are considered "usable".

The Data Validation Compliance Chart is included with this report.

SAMPLING INFORMATION AND SAMPLE CUSTODY DOCUMENTATION

Chain of Custody ("COC") forms are used to document the history of sample possession from the time the sample containers leave their point of origin (usually the laboratory performing the analyses) to the time the samples are received by the laboratory. COCs are considered legal documents.

The complete list of sample information was provided:

a. Sample Locations: Bisonite Site
b. Sample Matrix: Air
c. Trip Blanks: No Trip Blank
d. Field Duplicate: Sample SV-1

e.	QC Audit Samples:	Laboratory Control Samples with Duplicate and Matrix Spikes
f.	Sampling Date:	January 13, 2020
g.	Shipping Date:	January 15, 2020
h.	Laboratory:	Pace Analytical
i.	Initial/Final Canister Pressure:	Not Identified
j.	Initial/Final Canister Temperature:	In Compliance

The Chain of Custody ("COC") accurately documents the sample collection. However, Sample SV-2 was listed on the COC but not checked for analysis. This sample was pulled from the Sample Data Group.

Accuracy, Precision, and Sensitivity of Analyses

The fundamental QA objective with respect to the accuracy, precision, and sensitivity of analytical data is to achieve the QC acceptance of each analytical protocol. Accuracy and precision are determined using matrix spike ("MS") and matrix spike duplicate ("MSD") samples.

Accuracy is a measure of the difference of a set of analytical results to the accepted or expected values. Accuracy is assessed by using the MS/MSD and surrogate spike recovery data.

Recovery values were reported within the QC limits for each analytical parameter group.

Precision is a measure of the mutual agreement between measurements of the same parameter.

The sample results for the Indoor Air Sampling are considered "usable".

Completeness, Representativeness, and Comparability of Data

Completeness is the measure of the amount of valid data obtained from a measurement system compared with the amount expected to be obtained under normal conditions. Review of the analytical data packages provided by Pace indicates that the requested parameters were analyzed for and reported by the laboratory for each sample submitted under proper chain-of-custody procedures. Based upon MEHC's review of the laboratory data, a usable data level was achieved.

Representativeness of the data is obtained through the design of the sampling program and the adherence to established sample collection procedures, sample-handling SOPs, and analytical procedures. The sampling program outlined in the Work Plan was designed to provide for data representative of site conditions taking into consideration past disposal practices, existing data from past studies, and the physical site setting. Collection of the indoor air samples were conducted in accordance with established industry and regulatory protocols.

The laboratory maintained all holding times for the specific analytical protocols.

Comparability of the data is derived from the evaluation of field duplicate samples and the adherence to established sampling and analytical procedures. A field duplicate is an independent sample collected as close as possible to the original location from the same sampling point. A

Field Duplicate was collected.

All of the indoor air samples were analyzed utilizing standardized USEPA methodologies performed in accordance with the latest version of the NYSDEC ASP protocols.

Quality Control Checks

Trip Blanks

A trip blank is provided with each shipping container of samples to be analyzed for VOCs. Analysis of trip blanks determines whether sample canister was contaminated during shipment from the laboratory, while in storage, in shipment to the laboratory, or during analysis at a laboratory. Trip blanks consist of clean canister prepared by the analytical laboratory prior to transportation the sample canisters.

A Trip blank was not included with the shipment of the air samples. However, a canister certification evaluation was completed on Pace pre-cleaned containers. There were no detectable levels of VOCs in these sampled containers.

Field (Equipment) Blanks

Given that dedicated sampling pre-cleaned stainless steel air sampling equipment was utilized for the collection of each sample, a field (equipment) blank not collected.

Method Blanks

A method blank is a sample of air, which is carried through the analytical procedure alongside the project samples to determine the level of laboratory background contamination.

For this investigation, a laboratory method blank was analyzed alongside the air samples collected on January 13, 2020. Methyl Ethyl Ketone (MEK) was found below the Method Reporting Limit; no other VOC compounds were detected in the method blank analyzed during this investigation.

Canister Suitability

Canisters used for the sampling of ambient air must be demonstrated clean and leak free prior to sample collection. This cleanliness is demonstrated by analysis of an individual canister or analysis of a representative canister, if only batch cleaning was required. Leak proof testing is performed on individual canisters. Canisters are used in conjunction with gauges, valves and flow controllers. Therefore, the canister should be demonstrated clean and leak free inclusive of these components.

Leak Proof Test: Canister are tested by their ability to hold vacuum/pressure within +/-2 psi for a period of 24 hours preceding sampling.

Cleanliness: Integrity of the canister used for sampling of air for analysis should be maintained at all times including the time of shipment to the field, sampling, shipment back to the laboratory and time of analysis. Analytical results of the canister cleanliness verification are taken into account in the validation of sample results.

Matrix Spike/Matrix Spike Duplicate Samples

For this project, there was MS/MSD analysis performed.

The results were within the control limits.

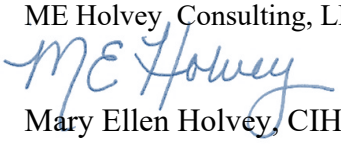
Surrogate Analyses

Surrogates are compounds added directly to every standard, blank, MS/MSD, and sample at a known concentration, prior to extraction or analysis; and used to evaluate the analytical efficiency by measuring percent recovery of those compounds upon analysis. The laboratory reported surrogate recoveries were within established QC limits for the surrogates.

OVERALL ASSESSMENT

As was determined by this evaluation, the laboratory followed the specified analytical methods. Accuracy was acceptable as demonstrated by the surrogate, laboratory control sample/laboratory control sample duplicate (LCS/LCSD), and laboratory control sample, with the exceptions (if any) noted in the above narrative.

PREPARED BY: ME Holvey Consulting, LLC



Mary Ellen Holvey, CIH
Senior Industrial Hygienist

April 2, 2020

Data Validation Compliance Chart
Bisonite Site

January 13, 2020 Sampling Event

Sample ID	**L1180201**		
Matrix	**Air**		
Analysis	**USEPA TO-15 – Whole Air Samples**		
Holding Times	Samples were analyzed within USEPA holding times.		
Field Parameters	Sample ID	Vacuum Initial (in Hg)	Vacuum Final (in Hg)
	L1180201	Not Identified	Not Identified
Calibration	In the continuing calibration for all compounds are within of method control limits. All data quality objectives were satisfied.		
Method Blanks	All quality assurance parameters were met for these analyses.		
Canister Leak Check	The canisters passed the leak check. All quality assurance parameters were met.		
Canister Cleanliness	No detectable compounds found in the Canister Certification Evaluation. All quality assurance parameters were met for these analyses.		
Matrix Spike/Matrix Spike Duplicate	Matrix spike recovery and/or matrix spike duplicate recovery were within control limits.		

Data Validation Compliance Chart
Bisonite Site

January 13, 2020 Sampling Event

Sample ID	**L1180201**
Matrix	**Air**
Analysis	**USEPA TO-15 – Whole Air Samples**
Surrogates	All data quality objectives were satisfied.
Internal Standards	All data quality objectives were satisfied.
Laboratory Control Samples	All laboratory internal quality control samples were within acceptable ranges.
Data Usability	Data is acceptable.

Data Validation Compliance Chart
Bisonite Site

January 13, 2020 Sampling Event

Data Usability Summary Report
January 2020 Sampling Event
Bisonite Site
Tonawanda, New York
MEHC Project No. 14-223

DATA USABILITY

The Quality Assurance Project Plan ("QAPP") was prepared for this project by Leader Professional Services, Inc. ("LPSI"). The QAPP presents the policies, organization, objectives, functional activities, and specific Quality Assurance ("QA") and Quality Control ("QC") measures designed to achieve the data quality goals associated with this investigation. The QAPP identifies procedures for sample preparation and handling, sample chain-of-custody, laboratory analyses, and reporting that were implemented during this investigation to ensure the accuracy and integrity of the data generated during the investigation.

LPSI conducted the sampling event as part of the Remedial Investigation and Supplemental Investigation activities of the Bisonite Property ("Site") in Tonawanda, New York.

DATA SUMMARY

The Data Usability Review and Data Validation Compliance Chart has been completed for the laboratory deliverable packages generated by ALS Laboratories ("ALS"), pertaining to samples collected at the Site on January 27, 2020. A total of five (5) water samples were collected, including Quality Control samples, during the January 2020 sampling event as part of 6 NYCRR Part 375, Environmental Remediation Programs. The following USEPA Methodologies were used to analyze these samples for the following analytes:

PFAS (Per- and Polyfluoroalkyl Substances) USEPA Method 573M

Trip blank, field duplicate, surrogates, internal standards, reference samples, field (equipment) blank, matrix spikes, and matrix spike duplicates were included in the sample set and processed.

Samples were collected and received on the following schedule:

Sample Data Group ("SDG")	Date Collected	Date Received by ALS	Sample Matrix	Requested Analyses	Sample Temperature (°C)
R2000776	1/27/2020	1/28/2020	Water	PFAS	A – 3.4°C B – 1.8°C C – 1.4°C D – 5.3°C E – 0.9°C F – 1.5°C G – 2.8°C H – 1.3°C J – 0.4°C K – 0.9°C
R2000776	1/27/2020	1/31/2020 ALS Kelso	Water	PFAS	Cooler: 0.3°C

Data usability and validation was performed with guidance from the most current editions of the USEPA CLP National Functional Guidelines for Inorganic and Organic Data Review. The following items were reviewed:

- Data Completeness;
- Custody Documentation;
- Holding Times;
- Sample Blanks Review;
- Field Duplicate Samples;
- Matrix Spike Samples and Duplicates; and
- Control Spike/Laboratory Control Samples.

Those items showing deficiencies, if any, are discussed in the attached Data Validation Compliance Chart. All others were found to be acceptable as outlined in the above-mentioned usability procedures, and as applicable for the methodology. Unless noted specifically in the following text, reported results are substantiated by the reported data, and generated in compliance with protocol requirements.

In summary, sample preservation, handling, and processing was conducted with compliance to protocol requirements and with adherence to quality criteria and the reported results are considered "usable".

The Data Validation Compliance Chart is included with this report.

CUSTODY DOCUMENTATION

Chain of Custody ("COC") forms are used to document the history of sample possession from the time the sample containers leave their point of origin (usually the laboratory performing the analyses) to the time the samples are received by the laboratory. COCs are considered legal documents.

The laboratory report, R2000776, associated with the three (3) groundwater samples plus collected on January 27, 2020 is detailed below:

1. MW-3
2. MW-2
3. MW-2 Duplicate
4. Field Blank
5. Equipment Blank

Sample MW-2 was collected in duplicate as well as the Matrix Spike (MS) and Matrix Spike Duplicate (MSD).

The Chain of Custody ("COC") documents the sample collection efforts. The Equipment Blanks were not listed on the COC. The samples were added by the ALS after confirmation with LPSI.

PRESERVATION AND TECHNICAL HOLDING TIMES

The laboratory noted that one (1) VOA vial, MW-2, contained air bubbles. The second vial collected from MW-2 did not contain air bubbles and were used for the analytical testing.

The cooler temperatures were below the 6.0°C limit.

All sample holding times were met.

ACCURACY, PRECISION, AND SENSITIVITY OF ANALYSES

The fundamental QA objective with respect to the accuracy, precision, and sensitivity of analytical data is to achieve the QC acceptance of each analytical protocol. Accuracy and precision are determined using matrix spike ("MS") and matrix spike duplicate ("MSD") samples.

Accuracy is a measure of the difference of a set of analytical results to the accepted or expected values. Accuracy was assessed by using the MS/MSD and surrogate spike recovery data.

Recovery values were reported within the QC limits for each analytical parameter group.

Precision is a measure of the mutual agreement between measurements of the same parameter.

The sample results for the Site are considered "usable".

COMPLETENESS, REPRESENTATIVENESS, AND COMPARABILITY OF DATA

Completeness is the measure of the amount of valid data obtained from a measurement system compared with the amount expected to be obtained under normal conditions. Review of the analytical data packages provided by ALS indicates that the requested parameters were analyzed for and reported by the laboratory for each sample submitted under proper chain-of-custody procedures. Based upon MEHC's review of the laboratory data, a usable data level was achieved.

Representativeness of the data is obtained through the design of the sampling program and the adherence to established sample collection procedures, sample-handling SOPs, and analytical procedures. The sampling program outlined in the Work Plan was designed to provide for data representative of site conditions taking into consideration past disposal practices, existing data

from past studies, and the physical site setting. Collection of the groundwater samples were conducted in accordance with established industry and regulatory protocols.

The laboratory maintained all holding times for the specific analytical protocols.

Comparability of the data is derived from the evaluation of field duplicate samples and the adherence to established sampling and analytical procedures. A field duplicate is an independent sample collected as close as possible to the original location from the same sampling point. All of the groundwater samples were analyzed utilizing standardized USEPA methodologies performed in accordance with the latest version of the NYSDEC ASP protocols.

QUALITY CONTROL CHECKS

Trip Blanks

A trip blank is provided with each shipping container of samples to be analyzed for volatile organic compounds (VOCs). Analysis of trip blanks determines whether a sample bottle was contaminated during shipment from the manufacturer, while in bottle storage, in shipment to the laboratory, or during analysis at a laboratory. Trip blanks consist of an aliquot of distilled water sealed in a sample bottle, prepared by the analytical laboratory prior to shipping the sample bottles.

A Trip blank was not included with the shipment of the groundwater samples.

Field (Equipment) Blanks

A field (equipment) blank was collected on January 27, 2020 as part of this project.

Method Blanks

A method blank is a sample of reagent water, which is carried through the analytical procedure alongside the project samples to determine the level of laboratory background and reagent contamination.

For this investigation, a method blank was analyzed alongside the water samples collected on January 27, 2020. There were no PFASs found in the Method Blank.

Matrix Spike/Matrix Spike Duplicate Samples

For the Site, one (1) MS/MSD was collected and analyzed for the groundwater samples. The sample results are considered acceptable and were within the control limits.

These results are detailed in the Data Validation Compliance Chart.

Surrogate Analyses

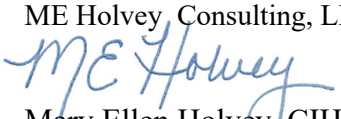
Surrogates are compounds added directly to every standard, blank, MS/MSD, and sample at a known concentration, prior to extraction or analysis; and used to evaluate the analytical efficiency by measuring percent recovery of those compounds upon analysis. The laboratory reported surrogate recoveries were within established QC limits or noted Data Validation Chart.

OVERALL ASSESSMENT

As was determined by this evaluation, the laboratory followed the specified analytical methods. Accuracy was acceptable as demonstrated by the surrogate, laboratory control sample/laboratory control samples (LCS), and MS/MSD, % Recovery values, with the exceptions noted in the above narrative.

The sample results for the Site, as qualified, are considered acceptable for use.

PREPARED BY: ME Holvey, Consulting, LLC



Mary Ellen Holvey, CIH
Senior Industrial Hygienist

April 2, 2020

Data Validation Compliance Chart
Bisonite Site

January 27, 2020 Sampling Event

Sample ID	**R2000776**
Matrix	**Groundwater**
Analysis	**PFAS**
Holding Times	Samples were extracted and analyzed within USEPA holding times.
Sample Preservation	The samples were collected and preserved in accordance with laboratory protocols.
Calibration	In the initial and continuing calibrations were within method requirements. All quality assurance parameters were met for these analyses.
Detection Limits	No issues identified.
Method Blanks	All quality assurance parameters were met for these analyses.

Data Validation Compliance Chart
Bisonite Site

January 27, 2020 Sampling Event

Sample ID	**R2000776**
Matrix	**Groundwater**
Analysis	**PFAS**
Matrix Spike/Matrix Spike Duplicate	All quality assurance parameters were met for these analyses.
Surrogates	MW-3: One or more surrogate recoveries were significantly low (less than 10%) in sample MW3 due to matrix interferences. The samples contained significant amounts of solids that interfered with the efficiency of the extraction. A reanalysis of the sample was performed but produced similar results. The low recoveries for the labeled analogs suggested increased variability for the quantitation of the associated native compounds in this matrix. The analyte results in question were flagged with an "X" qualifier to indicate the issue. No further corrective action was required. MW-3 The upper control criterion was exceeded for one or more surrogates. The associated native analytes were not detected above the Method Reporting Limit (MRL) in this sample. The error associated with an elevated recovery equated to a high bias. A re-analysis of the sample was performed but produced similar results. Assuming the native analytes performed similar to the labeled analogs, the effect on the reported results was minimal. The quality of the sample data was not significantly affected. No further corrective action was appropriate. All other quality assurance parameters were met for these analyses.
Internal Standards	All quality assurance parameters were met for these analyses.

Data Validation Compliance Chart
Bisonite Site

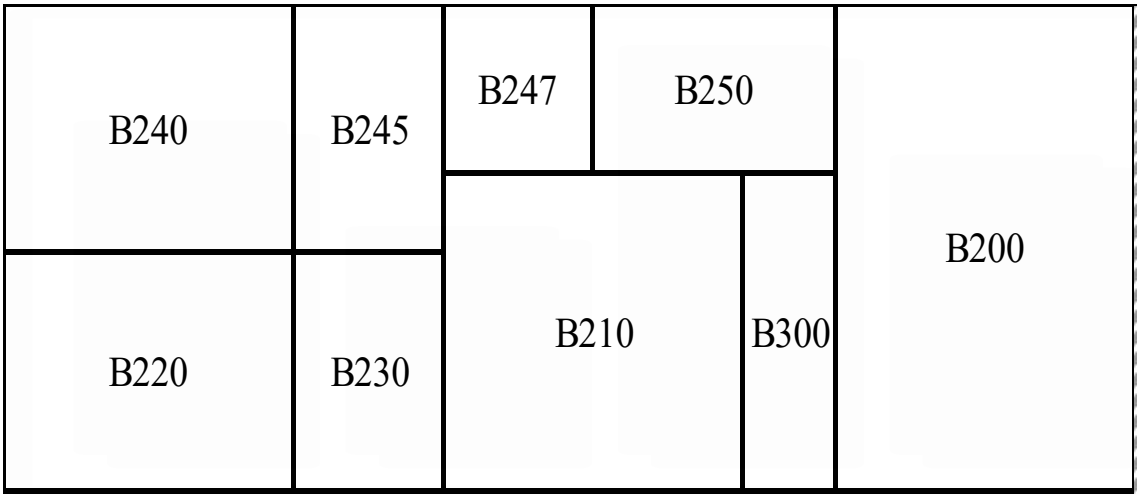
January 27, 2020 Sampling Event

Sample ID	**R2000776**
Matrix	**Groundwater**
Analysis	**PFAS**
Laboratory Control Sample	MW-3: The lower control criterion was exceeded for 13C4-PFHpA due to matrix interferences. Due to the presence of non-target background components that affected resolution of the surrogate, accurate quantitation was not optimal. Assuming the associated native analyte (Perfluoroheptanoic acid (PFHpA)) performed similar to the labeled analog, the effect on the reported results was minimal. A re-analysis of the sample was performed but produced similar results. The results from the original analysis were reported. No further corrective action was appropriate. All other quality assurance parameters were met for these analyses.
Data Usability	Data is acceptable for use.

APPENDIX E

ON-SITE BUILDING INTERIOR LAYOUT AND CURRENT TENANT LIST

Appendix E
2250 Military Road Interior Layout and Tenant List



Tenants

B220 Kelly Suckow building catamaran – rented through 6/30/2024
B240 Fire Retails – Used for storage (formerly occupied by Elmwood Co. Furniture Refurbishing until 3/31/2023)
B245 Peggy Burke – Joseph Todaro – Estate Sale company storage
B230 Crist Construction – Used for storage
B237 Buffalo All Services – Moving company storage
B250 Insight Floor – Storage of flooring products
B210 Toronto Press – warehouse
BB300 Shared loading dock for Insight Flooring and Toronto Press

Title:	On-Site Building Interior Layout and Tenant Listing 2266 and 2268 Military Road Tonawanda, New York
Prepared For:	Tonawanda Storage Properties, LLC 1400 Crossroads Building, 2 State Street Rochester, New York 14614

Leader Professional Services, Inc
271 Marsh Road-Suite 2
Pittsford, New York 14534
(585) 248-2413
Fax (585) 248-2834

APPENDIX F

FIELD NOTES – JANUARY 2020 GROUNDWATER SAMPLING

Bisonite

1-27-20 Snow 32°

Arrive @ 8:00

Rm taking water level

MW-4 Unknown product level ± <1"

MW1 Pump dry start @ 9:30

T 5.7°C

Do 7.8 mg/L

Spc. 1.09 mm/s

pH 7.3

ORP 218.9

NTU 10.8

MW3	1145	1050
T	4.6C	4.7°
Do	4.4	2.4
Spc mS	0.47	0.52
pH	8.9	8.5
ORP	111.5	-87.5
NTU	102.3	59

MW3

1110	1#:15	1120
T 4.9C	5°	5
Do 1.47	1.27	1.2
Spc 0.65	0.73	.74
pH 9.0	8.8	8.8
ORP -30.5	-32.0	-51
NTU 47	47	50

MW4

Geophy coord 50 E

20 S

0235 MW5	1245		1250
T	6.3	7.0	5.3
Do	5.12	4.5	4.4
pH	7.5	7.3	7.29
Spc mS/cm	1.3	1.3	1.4
ORP	141	165.6	177.6
NTU	6.1	1.0	0

1300

T 5.6C

Do 4.4

Spc 1.39

pH 7.2

ORP 182.6

NTU 0

1-28-20

820 Onsite

C well MW 5

Cold 30° Cloudy snow light

835 MW5 completed

8:40 MW1 only 6" water from over night

called DEC regarding MW1 and they are OK with stopping the sampling w/ VOC, PCB, MT