SUPPLEMENTAL REMEDIAL INVESTIGATION REPORT

For

AMERICAN DRIVE-IN CLEANERS OF HEWLETT, INC. 1345 PENINSULA BOULEVARD HEWLETT, NEW YORK Site No.: 130228 Index No.: CO 1-20180509-116

PREPARED FOR

New York State Department of Environmental Conservation 625 Broadway Albany, New York 12233-7016

PREPARED BY

Prepared by: John V. Soderberg, P.E. PO Box 263 Stony Brook, New York 11790

FINAL August 2022 (revised)

TABLE OF CONTENTS

1.0	INTRO	DDUCTION	Page 1
	1.1	Purpose	Page 1
2.0	Site H	IISTORY	Page 1
	2.1	Physical Site Description	Page 1
	2.2	Site History, Ownership and Land Use	Page 1
	2.3	Adjacent Property Land Use	Page 2
	2.4	Geographic Setting	Page 3
	2.5	Hydrogeology	Page 3
	2.6	Topography	Page 6
	2.7	Water Supply Wells	Page 6
	2.8	Drainage Pattern	Page 6
	2.9	<u>Soils</u>	Page 7
	2.10	Infrastructure	Page 7
3.0	Summ	IARY OF PAST INVESTIGATIONS	Page 8
	3.1	NCDH 2002 Sampling	Page 8
4.0	Suppi	LEMENTAL REMEDIAL INVESTIGATION RESULTS	Page 9
	Task		D
	4.1	On-site Monitoring Well Groundwater Results	Page 9
	4.2	Off-site Groundwater Results	Page 9
	4.3 Tools	<u>Emerging Contaminants (PFAS and 1,4 Dioxane) Results</u>	Page 10
	1 dSK	2 On site and Off site Soil Vapor Posults	Dago 11
	Tack	<u>011-Site and 011-Site Soli vapor Results</u>	rage 11
	1 d SK	Croundwater Flow Direction Survey	Dago 11
5.0	HEAL	<u>Groundwater Flow Direction Survey</u>	Page 11
6.0	Сомм	IUNITY AIR MONITORING PLAN	Page 11
7.0	Conci	LUSION	Page 12

TABLE OF CONTENTS

List of Figures

- Figure 1 Location Map
- Figure 2 USGS Topographic USGS Quadrangle (Lynbrook)
- Figure 3 Aerial Photograph with Subject Property
- Figure 4 Public Water Supply Location Map
- Figure 5 Groundwater Elevation Map with Subject Property
- Figure 6 Site Plan and Survey
- Figure 7 Monitoring Well Sampling Locations
- Figure 8 Soil Gas Sampling Locations
- Figure 9 Updated Groundwater flow Survey

List of Appendices

- Appendix A Previous Soil Vapor Intrusion Report
- Appendix B NCDOH Data
- Appendix C Validated Groundwater data (On and Off-site with PFAS)
- Appendix D Validated SVI data
- Appendix E Community Air Monitoring Plan data

List of Tables

- Table 1Tabulated Monitoring Well Data
- Table 2Tabulated Off-site Groundwater Data
- Table 3 Tabulated PFAS and 1,4 Dioxane Data (MW-1, MW-3 and MW-6A)
- Table 4Tabulated Soil Vapor Sample Data

1.0 INTRODUCTION

This Supplemental Remedial Investigation Report (SRIR) has been developed pursuant to the requirements of an executed Order on Consent (OOC) dated June 25, 2018. Previously the site was listed under the Voluntary Cleanup Agreement (June, 2003) between the New York State Department of Environmental Conservation, Division of Environmental Remediation (DER), and American Drive-In Cleaners of Hewlett, Inc., the Volunteer. The site has formally transitioned to an Order on Consent as of the June 25, 2018 date. The site is located at 1345 Peninsula Boulevard, Hewlett, New York 11557 (see Figure 1), fully described as Section 038, Block 446, Lot Nos. 61, 63, 70 and 72.

1.1 Purpose

The purpose of the SRIR is to:

- determine the current nature and delineate the extent of contamination in groundwater and soil gas on-site and emanating from the site;
- collect and evaluate on and off-site groundwater and soil gas data to evaluate the current potential impact to public health and the environment;
- Identify collected data needed for monitoring natural attenuation, potential feasible cleanup technologies and presumptive remedies.

2.0 SITE HISTORY

2.1	<u>Physical Site</u> Site Name:	<u>Description</u> American Drive-In Cleaners of Hewlett, Inc.
	Owner:	Mr. Bertram Moreida, President of American Drive-In Cleaners of Hewlett, Inc.
	Location:	1345 Peninsula Boulevard, Hewlett, New York 11557, Latitude 40º 38'40" N, Longitude 73º42'7"W

Former Voluntary Cleanup Agreement: Site No.: V-00616-1

2.2 <u>Site Description, History of Ownership and Land Use</u>

The American Drive-In Cleaners of Hewlett, Inc. (American Drive-In Cleaners) site is situated on a triangular shaped parcel approximately 0.6686 acres in size located on

the south side of Peninsula Boulevard and 432.28 feet east of the intersection of Mill Road and Peninsula Boulevard (Figures 1 and 2). The eastern boundary of the site abuts the Rockaway Branch right-of-way of the Long Island Railroad (LIRR). The LIRR tracks are installed in a north/south direction and parallel to Harris Avenue located to the east of this right-of-way.

The site is developed with a one-story slab-on-grade approximately10,000 ft² cinder block/ brick-faced building that encompasses more than 60 percent of the footprint of the subject parcel. The building is situated along the eastern boundary of the parcel. The building shape is an irregular triangle and measures between 144 feet and 164 feet in the north/south direction and between 35 feet and 178 feet in the east/west direction. The south rear-side of the building measures approximately 50-feet in the east/west direction. The front side (entrance) of the property is at the south side of Peninsula Boulevard. The undeveloped portion of the property, to the west and south of the building, is asphalt paved for parking.

In an interview with Mr. Moreida on October 3, 2003, he indicated that the subject property had been developed from vacant land circa 1958-59 for use as a dry cleaner. He purchased solely the dry cleaning business at the subject property in 1960 and the real estate (the subject property) in1965 from the Estate of Philip Basser. He further indicated that the original portion of the building (northern portion) was constructed in 1958-59 with two minor additions to the southern portion of the building in 1963 (boiler room) and circa 1985 (dry cleaning machine room).

2.3 Adjacent Property Land Use

The Peninsula Boulevard corridor and surrounding areas have been used for commercial purposes and residential housing since before the date of development of the subject property. (see Figures 2 and 3). In particular, the adjacent properties' current uses include:

- North: Directly to the north is Peninsula Boulevard. A strip shopping center is present on the north side of Peninsula Boulevard with various retail/commercial operations such as the following: jewelry store, liquor store, food restaurant, hair cutting salon, nail salon, clothing store, butcher, florist, shoe store, electronic store, optical store, stationary stores, video store, toy shop, bakery and a large supermarket (Foodtown located at 1368 Peninsula Boulevard). A ballfield and associated park are located to the north of the shopping center.
- South: The areas to the southeast and southwest of the subject property are predominantly residential. A u-shaped residentially developed street is

present to the southwest (Chestnut Drive) with additional residential development along Harris Avenue to the southeast.

- East: Directly to the east of the subject property is the elevated portion of the railroad tracks of the Long Island Railroad. Further to the east is residential development along Harris Avenue.
- West: Directly to the west is a commercial bank building (HSBC). Further to the west is a Sunoco Gasoline Station, a Shell Gasoline Station, a hair cutting salon and another dry cleaners (Mill Road Drive-In Dry Cleaners), along Mill Road. To the northwest, along Peninsula Boulevard, a commercial retail zone exists. Further to the west-southwest is residential development

2.4 <u>Geographic Setting</u>

Previous investigators have concluded that the Laurentide continental ice sheet deposited two major terminal moraines on Long Island during the Wisconsinan stage of the Pleistocene Epoch (Cadwell, 1989). These moraines formed two lines of hills that trend generally east-west along the island. American Drive-In Cleaners of Hewlett, Inc. lies in the outwash plain south of the confluence of the Harbor Hill and Ronkonkoma moraines and is within the drainage area of the south shore bays of Long Island.

2.5 <u>Hydrogeology</u>

A concise and accurate description of the geology, physiography and drainage of Nassau County is found in the <u>Soil Survey of Nassau County, New York</u> (USDA). Relevant excerpts of this study are included below. Nassau County is part of the Coastal Plain physiographic province. The county is characterized by undulating or rolling landscapes in the northern part and a flat plain with a gently southward tilt in the southern part. A lobe of rolling topography protrudes farther to the south along the eastern edge of the county. Extensive tidal areas and marshes are just south of the plain and a barrier beach and dunes form the southern outline of the county.

Elevation in the county ranges from sea level to about 340 feet above sea level near the eastern edge of the county, just south of NYS Route 25. The landforms at the higher elevations were deposited as a terminal moraine. These areas have irregular topography that is crossed by deep glacial drainage channels near the north shore. These channels empty into deep bays on the north shore. The steepest relief is along drainage channels or on the side slopes adjacent to the bays. An outwash plain, which is to the south of the terminal moraine, has a maximum elevation of about 180 feet just northeast of Hicksville and slopes gradually to the south some 8 to 10 miles, finally reaching tidal area at sea level.

Nassau County is underlain by bedrock, but most of it is at a depth of several hundred feet. The closest surficial bedrock is to the west in the boroughs of Bronx and Queens in New York City and areas to the northwest in Westchester County near Long Island Sound. From these areas of surface exposure, the rock surface dips to the southeast to form a solid basement below Nassau County. Most of the bedrock consists of Cretaceous sedimentary layers. Some of the older rocks in the area are the 200 million year old Triassic red beds and lava flows off New Jersey and Connecticut and Cambrian metamorphic rocks in the New York City area that are 450 million years old.

During the late Cretaceous Period the sediments from the eroding Appalachian Highlands were carried by streams and rivers to low-lying coastal areas. The sand, silt and clay of the Raritan and Magothy formations, which form the foundation of Long Island, were deposited as deltas in areas of shallow water. The Raritan formation is below sea level and the Magothy formation is at the surface of several sites along the north shore. The Magothy is the primary potable water supply aquifer on Long Island.

During the Tertiary Period the area of Long Island was uplifted above sea level and the Cretaceous sediments were eroded and dissected by streams and rivers. The valley now occupied by Long Island Sound was cut by a major river and smaller tributary streams formed valleys which are now the north shore bays.

During the Pleistocene Epoch of the Quaternary Period, several major glacial advances into the northern United States occurred. This epoch is divided into four major glacial stages. From oldest to youngest, they are: Nebraskan, Kansan, Illinoisan and Wisconsinan. During the Illinoisan advance, the ice sheet reached a position just north of the Long Island area. Outwash sand and gravel, of the Jameco gravel formation, was deposited by meltwater streams. Following the Illinoisan stage, sea level rose close to its present level and a clay (Gardiner clay) containing marine fossils was deposited in the shallow coastal waters surrounding Long Island.

During the Wisconsinan glacial advance the ice reached a position represented on most of Long Island by the Ronkonkoma terminal moraine. In the latter part of this stage, the ice sheet receded from a point east of Lake Success and established a new position along the north shore marked by the Harbor Hill terminal moraine. West of Lake Success this lobe of ice overrode the Ronkonkoma moraine and pushed as far south as Staten Island. This caused the terminal moraine/deposits in Nassau County to form a wide band of irregular topography occupying the northern half of the county, while in adjacent Suffolk County the terminal moraine deposits were far enough apart to be two distinct landforms separated by a flat plain. During the Wisconsinan advance sea level dropped about 350 feet below its current elevation to expose a broad flat coastal plain.

As the climate again warmed, about 11,000 years ago, the Wisconsinan period ended and the Holocene, or present, period began. The ice sheet receded to its present polar limits and sea level rose to its present level. Currents and wave action modified the outwash plain to create the present-day shoreline.

These overlying Pleistocene deposits, referred to as the Upper Glacial aquifer, is a highly prolific aquifer and consists of three distinct units. The oldest and deepest unit is a sand and gravel layer associated with the Ronkonkoma ice sheet. After the recession of the ice sheet sea level rose to near its' present level. During this interstadial period, marine and/or lacustrine sediments were deposited over the Ronkonkoma deposits, a clay bed at the base, separated from an upper clay bed by a band of silty sandy beds. Overlying the clay is a terminal moraine and adjacent outwash deposits associated with the Harbor Hill ice sheet.

Direction and rate of groundwater flow are controlled by the rate and distribution of water entering and leaving the aquifer systems, the geometry of these systems and the distribution of water transmitting and storage properties of these aquifer systems. Based upon a projection from review of Nassau County Water Table Maps, local groundwater flow direction in the shallowest aquifer (the Upper Glacial aquifer) is expected to be in the south (either southwest or southeast) dependent upon local discharge patterns to surface water headwater areas. Published literature values for estimated average hydraulic conductivity for the Upper Glacial Aquifer is 270 feet per day horizontal with rates of 27 feet per day for vertical flow. Previous work performed by BEI proximate to the study area has determined the depth to groundwater within the Upper Glacial aquifer as approximately 5-10 feet below grade surface (bgs). Previous groundwater flow surveys conducted have documented flow direction to the northwest, possibly due to the PSW (N-01346) to the northwest changing the gradient. An updated groundwater flow survey will be conducted and will include: updated casing elevations and also current depth to water measurements.

The subject property is located within the boundaries of Hydrogeologic Zone VII: South Shore Shallow Flow Discharge System. Zone VII is located south of the Magothy recharge zone on the South Shore and discharges to Nassau and western Suffolk South Shore bays where tidal exchange facilitates the dilution and dispersion of contaminants. Zone VII is a shallow flow zone, thus contamination from activities in Zone VII will mainly affect the Glacial aquifer. Zone VII contains a number of streams that feed the South Shore bays. These streams are important recreationally, ecologically and as a freshwater source to South Shore bays.

2.6 <u>Topography</u>

The subject site is located approximately 25-30 feet above mean sea level and the National Geodetic Vertical Datum of 1929 (USGS-Lynbrook Quadrangle - Figure 2). The land surface is relatively flat within the study area with slope in topographic grade to the south-southwest towards proximate surface water (canals and bays).

2.7 <u>Water Supply Wells</u>

Berninger Environmental conducted an investigation on the potable (drinking) and non-potable water supply wells located within a half-mile radius of the subject site. Region I of the NYSDEC requires that all wells (potable supply and non-potable supply) which pump at least 45 gallons per minute must be permitted. A review of these records indicated that the Long Island Water Corporation (LIWC) is the distributer of potable water in the area of the subject site and one public supply well (N-01346) is located within approximately ½ mile of the study site. The location of this well is presented in Figure 4. This public supply well is located approximately ½ mile to the northwest and hydraulic down gradient of the site. The table below provides data on this well. An updated groundwater flow survey will be provided in order to determine if contamination emanating from the subject site is potentially impacting the PSW. More information on the updated survey is provided in section 4.0-Task 3.

Well No.	Aquifer	Land Surface	Depth to Bottom	Depth to Screen
N-01346	Jameco	10 ft msl	160 ft bgs	135 ft bgs

2.8 <u>Drainage Pattern</u>

There are several proximate surface water areas relative to the study property. These include Motts Creek (closest), Willow Pond and Georges Creek within a one mile radius. Based upon an evaluation of topographic grade changes, the local surficial and hydraulic drainage pattern is likely into the drainage basin of Motts Creek (slightly up gradient) or Georges Creek, which ultimately discharge to the areas of the south shore bays and the Atlantic Ocean. The surface water bodies observed within a ½ mile radius of the site include only Motts Creek. The localized groundwater flow direction for the shallow Upper Glacial aquifer at the site is to the north northwest as depicted in the localized groundwater flow survey. Figure-5.

2.9 <u>Soils</u>

According to the United States Department of Agriculture Soil Conservation Service and the Soil Survey of Nassau County, New York, the soils at the subject site are classified Us-Urban land Sudbury complex. This unit consists of urbanized areas and very deep, moderately well drained soils. This soil unit is noted to be on nearly level plains. The areas of this soil are variable in shape and are as much as several hundred acres each. Slope ranges from 0 to 3 percent. This unit consists of about 70 percent urbanized areas, 20 percent moderately well drained Sudbury soils and 10 percent other soils. The urbanized areas and Sudbury soils are so intermingled that it was not practical to map them separately. The urbanized areas are buildings, roads, driveways, parking lots and other manmade structures. Included with this soil, in mapping, are small areas of excessively drained to moderately well drained Udipsamments and well drained Riverhead soils. The Udipsamments are in areas of construction activity where sandy material has been mixed with the surface layer and subsoil. The typical sequence, depth and composition of the layers of Sudbury soils are as follows:

Surface layer: Surface to 5-inches, dark reddish brown fine sandy loam

Subsoil: 5 to 18-inches, yellowish brown sandy loam

18+-inches, mottled, yellowish brown gravelly loamy sand

Substratum: 28-to 40-inches, mottled, pale brown very gravelly sand 40 to 60-inches, very pale brown, very gravelly sand

2.10 Infrastructure

During the interview with Mr. Moreida, the following site specific information regarding utilities and infrastructure relative to the subject property was established see Figure 6. The property has been connected to the municipal sewer system since its development circa 1958-59. Therefore, all bathrooms and wastewater piping within the building have been and are connected to the on-site municipal sanitary system. No other in-situ drainage structure were identified within the building. The municipal sewer line enters the building at its northwest corner, at which location both natural gas and municipal water lines are also present.

Electric and telephone service enter the building from above ground poles. The property is served by natural gas (KeySpan), which is used predominantly for a dual-fired boiler steam generation and heating system. A 1,000 gallon No. 2 fuel oil above ground storage tank (AST), with secondary containment (lube cube-style) is present

at the western exterior side of the building, near the interior boiler room. A small capacity on-site water supply well is used, in addition to municipal potable water, for make-up water for the non-contact cooling water system. The hazardous materials storage area is a steel trailer located at the rear southern portion of the subject property, exterior and not joined to the building. The current and historic dumpster location is at the mid-central portion of the subject property.

No storm water dry wells or catch basins were observed to be present on the subject property. Drainage appears to flow into Peninsula Boulevard and to perimeter areas of the subject property.

3.0 SUMMARY OF PAST INVESTIGATIONS

Information available to Berninger Environmental, Inc. (BEI) from an interview with Mr. Moreida indicated that the Nassau County Department of Health (NCDH) had previously inspected, collected and analyzed samples of wastewater emanating from boiler blow-down water and/or former evaporative water discharges and the shallow soils at the southeastern perimeter of the subject property. A discussion of these activities is provided below; BEI has not been provided with actual copies of the NCDH inspection reports, except for that data provided in Appendix B. These inspection reports have been requested under the Freedom of Information (FOIL) Process

3.1 NCDH Sampling 2002 Program

On January 15, 2002, Nassau County Department of Health (NCDH) collected samples of wastewater being discharged to a location outside the southeastern side of the site building. The water samples were collected from a wastewater stream caused by either former boiler blow-down and/or evaporator discharges from a unit located within the American Drive-In Cleaners. This sample analyzed by the NCDH laboratory detected a concentration of tetrachloroethylene (PCE) at a concentration of 7.3 parts per billion (ppb). A second round of sampling in March 2002 reported a concentration of 16 ppb.

On March 19, 2002 soil samples were also collected by NCDH at the same wastewater discharge location at the southeastern side of the building from a depth of 2 to 6-inches below grade surface (bgs). These soil samples reported concentrations of PCE up to 4,000 ppb. The same soil sample contained an elevated concentration of abreakdown product of PCE, known as cis-l,2-Dichloroethene (1,2-DCE) at a concentration of 7,400 ppb.

A soil gas study was also conducted during January of 2008 and the results concluded that neither PCE nor TCE was detected in three (3) soil gas samples collected. The samples were collected south of the site within the backyard areas of the three (3) closest residences to the subject site. Please refer to Appendix-A for the complete soil gas sampling Report.

4.0 SUPPLEMENTAL REMEDIAL INVESTIGATION RESULTS

Task 1 - Monitoring Well Sampling and Off-site Groundwater Collection

A total of seven (7) monitoring wells were sampled from the subject property on July 31, 2019 and analyzed via EPA test method 8260 (VOCs) and select wells MW-1, 3 and 6A were sampled for emerging contaminants PFAS (21 list) and 1,4 Dioxane. During the investigation off-site monitoring wells MW-4, 5 and 6 were unable to be located as new construction of the sidewalk in this area north of the site, appeared to be the cause for the missing wells. In leu of sampling from the off-site wells, temporary sampling points were installed off-site at these locations in order to replicate the sampling intervals proposed in the SRIWP.

Utilizing the currently viable monitoring wells located throughout the site, samples were obtained using low-flow sampling techniques. Temporary well points were installed to the north of the property along Peninsula Boulevard and sampled at depths of 5-9'; 15-19' and 26-30'. Further information on the sample collection protocol is provided in section 5.0 of the SRIWP. Please see Figure-7 for the locations of the monitoring wells and temporary offsite well locations.

4.1 <u>On-site Monitoring Well Sampling Results</u>

Analytical data provided for on-site monitoring wells (MW-1, MW-2, MW-3, MW-6A, MW-7, MW-8 and MW-N. Samples were analyzed via EPA method 8260 for VOCs utilizing low-flow sampling techniques. All the on-site monitoring wells exhibited some amount of PCE and daughter breakdown products from 110 ppb in MW-3 to 32,000 ppb at MW-1. Complete breakdown through to Vinyl Chloride was observed at select well locations where *cis*-1, 2 DCE was present at elevated levels ranging from 2,000 ppb 15,000 ppb. The data for each of the wells is tabulated and included as Table-1 of the Report.

4.2 <u>Off-site multi-level Groundwater Results</u>

Off-site groundwater was collected at three (3) locations GW-4, GW-5 and GW-6 and at multiple depths: 5-9', 15-19', 26-30'. The highest concentration detected was cis-1, 2, DCE at the GW-4@ 15-19' at 35,000 ppb. Contamination levels at the bottom of GW-4, at the 30' mark was mainly non-detect with very minimal DCE. GW-5 was similar to GW-4 with regard to the distribution of PCE and breakdown products throughout each depth. The highest detection at the GW-5 location was again, *cis*-1, 2 DCE at 15-19' with a concentration of 10,000 ppb and leveling off at 570 ppb from 25-29' bgs. GW-6 was the western most off-site groundwater sample collected. Very minimal contamination was detected at this location with the highest detection in the 15-19' depth with cis-1, 2 DCE at 110 ppb and TCE at 12 ppb. Based on these concentration levels, further delineation to the west of GW-6 does not appear necessary. Tabulated

data for the off-site groundwater samples is included as Table-2 and validated lab data for all groundwater data is included as Appendix-C.

4.3 <u>Emerging Contaminants (PFAS and 1, 4 Dioxane) Results</u>

Sampling for emerging contaminants was sampled at select wells MW-1, MW-3 and MW-6A. Sampling was originally intended at MW-2, but there was not enough recovery from this well to procure a sample. MW-6A was used to substitute sampling in lieu of MW-2 and was a field-based decision.

The lab results indicated detections of PFOA and PFOS at MW-1 of 181 ppt and 3,530 ppt; MW-3 at 235 ppt and 40.3 ppt; and MW-6A at 121 ppt and 2,380 ppt respectively.

Tabulate analytical data is provided for PFAS and 1,4 Dioxane as Table-3. Please refer to Figure-7 for the sampling locations. Third party validated lab for the emerging contaminants is included as Appendix- C.

Task 2 - Soil Gas Investigation Results

All soil gas samples were collected in accordance with the New York State Health Department (NYSDOH) "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" protocols. The Geoprobe will be equipped with a Post-Run Tubing System (PRT) and soil gas samples were collected from beneath whatever land surface materials (concrete, asphalt or grass) encountered. The PRT tubing was set at a minimum depth of 4 feet (bgs) and the point was extracted from the probe rods. Upon extracting the probe point, the tubing exiting the probe rods, and the probe rod borehole was sealed with bentonite or a hydraulic cement. The area around the soil gas sample collection point encompassed bya plastic container for the introduction of a tracer gas such as helium. Helium was introduced via a tubing penetration into the plastic container as a tracer gas in order to quantify that no circumvention of air was occurring. The plastic tracer container was sealed to the ground surface and sealed where the tubing exits the container. A helium detector was connected inline between the sample container sampling point to ensure that no more than ten percent (<10%) helium infiltrated the sampling media.

Subsequent to the introduction of helium tracer gas, the annular space was purged a minimum of one volume of soil gas using a personal sampling pump. During purging and sampling, the flow rate did not exceed 0.2 liters per minute. A pre-set regulator and dedicated summa cannister were used to procure the soil gas samples. The cannisters were labeled with all pertinent information for the laboratory. Samples were analyzed via EPA TO-15 for volatile organic compounds with third party lab validation.

4.4 <u>On-site and Off-site Soil Gas Results</u>

A series of on and off-site soil gas samples and one (1) outdoor ambient air sample was collected at select locations as seen on Figure-8. A total of five (5) Soil vapor samples were collected for a two (2) hour flow duration and labeled SV-1-SV-5. The highest concentration of PCE was detected at the SV-3 location with a concentration of 300 μ g/m3. The outdoor ambient (OA-1) air sample detected PCE at 108 μ g/m3. SV-1, 2, 4 and 5 all detected PCE at or below 60 μ g/m3. Please refer to Table-4 for tabulated soil vapor results and Figure-8 for posted concentrations with relation to sampling location. Please see Appendix-D for SVI validated lab data.

Task 3 – Groundwater Gradient Survey

4.5 <u>Groundwater Flow Direction Survey</u>

An updated groundwater flow survey was conducted in order to confirm the groundwater flow of northwest. Casing elevations on a minimum of five (5) monitoring wells were surveyed to the nearest one hundredth (.01') of a foot from the north side of the well casing. Depth to water (DTW) measurements were also included in the be gauged from the north side of the well casing in order to determine the current water table gradient in the area of the subject site. Based upon the updated survey information a groundwater flow direction of NNW (350deg) has been documented. Please refer to Figure-9 for the updated groundwater flow survey.

5.0 HEALTH AND SAFETY PLAN (HASP)

The site-specific Health and Safety Plan developed and approved under the initial Remedial Investigation Work Plan was adhered to by all personnel involved in the investigation. Incorporated into the plan was a section on community health and safety with measures to ensure the public living and working near the site, including facility employees or visitors, were protected from exposure to site contaminants during intrusive activities or on-site treatment actions.

6.0 COMMUNITY AIR MONITORING PLAN

A Community Air Monitoring Plan (CAMP) provides for real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust) at the downwind perimeter of each

designated work area when certain activities are in progress at contaminated sites. Additionally, the CAMP helps to confirm that work activities did not spread contamination off-site through the air. VOC and particulate monitoring were performed during all ground intrusive activities and is provided for the July 31st and August 15th investigation activities. Please see Appendix-E for the CAMP data.

7.0 CONCLUSION

In conclusion, groundwater flow direction has been determined to be slightly north of original surveys performed but remains in a generally NNW direction. On-site monitoring wells had contamination at select locations with PCE levels discovered site wide. Vertical off-site delineation has been achieved with only moderate concentrations observed in GW-6 at 30' bgs. Attempting to retrieve samples beyond this depth may risk the potential for mechanically induced vertical transport of contamination as a result of puncturing the confining unit at approximately 32' bgs.

Soil vapor PCE concentrations were detected at off-site locations with SV-3 showing the highest PCE level of 325 ug/m3. Based on these results a supplemental soil gas investigation Work Plan will be developed in order to determine SVI impacts at the strip mall to the north of the site.

Biological degradation is evident both site-wide and off-site in groundwater with daughter breakdown products observed through to Vinyl Chloride. Based on this observation it is accurate to conclude that natural attenuation via the process of dehalorespiration is occurring both on and off-site, and further monitoring of this process is recommended. FIGURES





Figure-2

Google Maps



Imagery ©2018 Google, Map data ©2018 Google 100 ft



* site (yellow asterisk)





Figure 5 - Groundwater Elevation Map with Subject Property









TABLES

Table-1

Tabulated Monitoring Well Data

American Analytical Laboratories, LLC. WorkOrder: 1908001 Client: WRS d.b.a Berninger Environmental

Project: American Drive-In Cleaners, 1345 Peninsula Blvd, Hewlett, NY

(19) TOGsGW Limits

Abbreviation:

NA = Not available, no value specified in TOGsGW Limits

		Client Sample ID:		MW-1	MW-2	MW-3	
		Laboratory ID:		1908001-001	1908001-002	1908001-003	
		Sampling Date:		07/31/2019	07/31/2019	07/31/2019	
Cas #:	Procedure:	Analyte:	Units:	Q	Q	Q	Limits
630-20-6	VOLATILE SW-846 METHOD 8260	1,1,1,2-Tetrachloroethane	PPB	0.25 U	0.25 U	0.25 U	5
71-55-6	VOLATILE SW-846 METHOD 8260	1,1,1-Trichloroethane	PPB	0.25 U	0.25 U	0.25 U	5
79-34-5	VOLATILE SW-846 METHOD 8260	1,1,2,2-Tetrachioroethane	PPB PPB	0.25 U	0.25 U	0.25 U	5
79-00-5	VOLATILE SW-846 METHOD 8260	1,1,2-Trichloroethane	PPB	0.25 U	0.25 U	0.25 U	1
75-34-3	VOLATILE SW-846 METHOD 8260	1,1-Dichloroethane	PPB	0.25 U	0.25 U	0.25 U	5
75-35-4	VOLATILE SW-846 METHOD 8260	1,1-Dichloroethene	PPB	<mark>15</mark>	0.25 U	0.25 U	5
563-58-6	VOLATILE SW-846 METHOD 8260	1,1-Dichloropropene	PPB	0.25 U	0.25 U	0.25 U	1
87-61-6	VOLATILE SW-846 METHOD 8260	1,2,3-Trichlorobenzene	PPB	0.25 U	0.25 U	0.25 U	5
96-18-4		1,2,3- I richloropropane		0.25 U	0.25 U	0.25 U	5
95-93-2 120-82-1	VOLATILE SW-846 METHOD 8260	1 2 4-Trichlorobenzene	PPB	0.25 U	0.25 U	0.25 U	5
95-63-6	VOLATILE SW-846 METHOD 8260	1,2,4-Trimethylbenzene	PPB	3.6	0.25 U	0.25 U	5
96-12-8	VOLATILE SW-846 METHOD 8260	1,2-Dibromo-3-chloropropane	PPB	0.25 U	0.25 U	0.25 U	0.04
106-93-4	VOLATILE SW-846 METHOD 8260	1,2-Dibromoethane	PPB	0.25 U	0.25 U	0.25 U	0.0006
95-50-1	VOLATILE SW-846 METHOD 8260	1,2-Dichlorobenzene	PPB	0.65 J	0.25 U	0.25 U	3
107-06-2		1,2-Dichloroethane		0.25 U	0.25 U	0.25 U	0.6
108-67-8	VOLATILE SW-846 METHOD 8260	1.3.5-Trimethylbenzene	PPB	0.25 U	0.25 U	0.25 U	5
541-73-1	VOLATILE SW-846 METHOD 8260	1,3-Dichlorobenzene	PPB	0.25 U	0.25 U	0.25 U	3
142-28-9	VOLATILE SW-846 METHOD 8260	1,3-dichloropropane	PPB	0.25 U	0.25 U	0.25 U	5
106-46-7	VOLATILE SW-846 METHOD 8260	1,4-Dichlorobenzene	PPB	0.25 U	0.25 U	0.25 U	3
123-91-1	VOLATILE SW-846 METHOD 8260	1,4-Dioxane	PPB	0.25 U	0.25 U	0.25 U	NA
594-20-7 78-93-3	VOLATILE SW-846 METHOD 8260	2,2-Dichloropropane	PPR	0.25 0	0.25 0	0.25 0	50
110-75-8	VOLATILE SW-846 METHOD 8260	2-Chloroethyl vinyl ether	PPB	10 U	0.30 U	0.30 U 10 U	NA
95-49-8	VOLATILE SW-846 METHOD 8260	2-Chlorotoluene	PPB	0.25 U	0.25 U	0.25 U	5
591-78-6	VOLATILE SW-846 METHOD 8260	2-Hexanone	PPB	0.50 U	0.50 U	0.50 U	50
67-63-0	VOLATILE SW-846 METHOD 8260	2-Propanol	PPB	0.25 U	0.25 U	0.25 U	NA
106-43-4	VOLATILE SW-846 METHOD 8260	4-Chlorotoluene	PPB	0.25 U	0.25 U	0.25 U	5
99-87-6	VOLATILE SW-846 METHOD 8260	4-Isopropyitoluene	PPB PPB	0.25 0	0.25 0	0.25 0	
67-64-1	VOLATILE SW-846 METHOD 8260	Acetone	PPB	0.30 0 19 B	39 B	25 B	50
71-43-2	VOLATILE SW-846 METHOD 8260	Benzene	PPB	0.25 U	0.25 U	0.25 U	1
108-86-1	VOLATILE SW-846 METHOD 8260	Bromobenzene	PPB	0.25 U	0.25 U	0.25 U	5
74-97-5	VOLATILE SW-846 METHOD 8260	Bromochloromethane	PPB	0.25 U	0.25 U	0.25 U	5
75-27-4		Bromodichloromethane	PPB	0.25 U	0.25 U	0.25 U	50
75-25-2	VOLATILE SW-846 METHOD 8260	Bromomethane	PPB	0.25 U	0.25 U	0.25 U	5
75-15-0	VOLATILE SW-846 METHOD 8260	Carbon disulfide	PPB	0.25 U	0.25 U	0.25 U	NA
56-23-5	VOLATILE SW-846 METHOD 8260	Carbon tetrachloride	PPB	0.25 U	0.25 U	0.25 U	5
108-90-7	VOLATILE SW-846 METHOD 8260	Chlorobenzene	PPB	0.25 U	0.25 U	0.25 U	5
75-45-6	VOLATILE SW-846 METHOD 8260	Chlorodifluoromethane	PPB	0.25 U	0.25 U	0.25 U	NA
75-00-3	VOLATILE SW-846 METHOD 8260	Chloroform	PPB PPB	0.25 U	0.25 U	0.25 0	5
74-87-3	VOLATILE SW-846 METHOD 8260	Chloromethane	PPB	0.25 U	0.25 U	0.25 U	5
156-59-2	VOLATILE SW-846 METHOD 8260	cis-1,2-Dichloroethene	PPB	14000 D	100	18	5
10061-01-5	VOLATILE SW-846 METHOD 8260	cis-1,3-Dichloropropene	PPB	0.25 U	0.25 U	0.25 U	0.4
110-82-7	VOLATILE SW-846 METHOD 8260	Cyclohexane	PPB	0.25 U	0.25 U	0.25 U	NA
124-48-1		Dibromochloromethane	PPB	0.25 U	0.25 U	0.25 U	50
74-95-3	VOLATILE SW-846 METHOD 8260	Dichlorodifluoromethane	PPB	0.25 0	0.25 U	0.25 0	5
108-20-3	VOLATILE SW-846 METHOD 8260	Diisopropyl ether	PPB	0.50 U	0.50 U	0.50 U	NA
64-17-5	VOLATILE SW-846 METHOD 8260	Ethanol	PPB	2.5 U	2.5 U	2.5 U	NA
100-41-4	VOLATILE SW-846 METHOD 8260	Ethylbenzene	PPB	0.76 J	0.25 U	0.25 U	5
76-14-2	VOLATILE SW-846 METHOD 8260	Freon-114	PPB	0.25 U	0.25 U	0.25 U	NA
87-68-3			PPB DDB	0.25 0	0.25 U	0.25 U	0.5
179601-23-1	VOLATILE SW-846 METHOD 8260	m,p-Xylene	PPB	0.67.1	0.50 11	0.50 U	5
79-20-9	VOLATILE SW-846 METHOD 8260	Methyl Acetate	PPB	0.25 U	0.25 U	0.25 U	NA
1634-04-4	VOLATILE SW-846 METHOD 8260	Methyl tert-butyl ether	PPB	0.25 U	0.25 U	0.25 U	10
75-09-2	VOLATILE SW-846 METHOD 8260	Methylene chloride	PPB	2.4 B	2.8 B	2.9 B	5
104-51-8		n-Butylbenzene	PPB	0.25 0	0.25 U	0.25 U	5
91-20-3	VOLATILE SW-846 METHOD 8260	Nanhthalene	PPB	0.2511	0.25 U	0.25 0	10
95-47-6	VOLATILE SW-846 METHOD 8260	o-Xylene	PPB	1.1 J	0.25 U	0.25 U	5
105-05-5	VOLATILE SW-846 METHOD 8260	p-Diethylbenzene	PPB	0.25 U	0.25 U	0.25 U	NA
622-96-8	VOLATILE SW-846 METHOD 8260	p-Ethyltoluene	PPB	4.4	0.25 U	0.25 U	NA
135-98-8	VOLATILE SW-846 METHOD 8260	sec-Butylbenzene	PPB	0.25 U	0.25 U	0.25 U	5
75-65-0	VOLATILE SVI-040 METHOD 8200	t-Butyl alcohol	PPR	2511	2511	2511	5 NA
98-06-6	VOLATILE SW-846 METHOD 8260	tert-Butylbenzene	PPB	1.0 J	0.25 U	0.25 U	5
127-18-4	VOLATILE SW-846 METHOD 8260	Tetrachloroethene	PPB	32000 D	190	<u>110</u>	5
108-88-3	VOLATILE SW-846 METHOD 8260	Toluene	PPB	0.49 J	0.25 U	0.26 BJ	5
156-60-5	VOLATILE SW-846 METHOD 8260	trans-1,2-Dichloroethene	PPB	120	0.85 J	1.1 J	5
10061-02-6		trans-1,3-Dichloropropene	PPP PPP	0.25 U	0.25 U	0.25 U	0.4
75-69-4	VOLATILE SW-846 METHOD 8260	Trichlorofluoromethane	PPB	0.25 []	0.25 []	0.25 U	5
108-05-4	VOLATILE SW-846 METHOD 8260	Vinyl acetate	PPB	0.25 U	0.25 U	0.25 U	NA
75-01-4	VOLATILE SW-846 METHOD 8260	Vinyl chloride	PPB	140	0.25 U	0.25 U	2
108-87-2	VOLATILE SW-846 METHOD 8260	Methylcyclohexane	PPB	0.25 U	0.25 U	0.25 U	NA
107-02-8		Acrolein	PPP PPP	1.0 U	1.0 U	1.0 U	5
1330-20-7	VOLATILE SW-846 METHOD 8260	Xylenes Total	PPB	1.25 U	0.25 U	0.25 0	5

American Analytical Laboratories, LLC. WorkOrder: 1908001 Client: WRS d.b.a Berninger Environmental

Project: American Drive-In Cleaners, 1345 Peninsula Blvd, Hewlett, NY

(19) TOGsGW Limits

Abbreviation:

NA = Not available, no value specified in TOGsGW Limits

		Client Sample ID:		MW-6A		MW-7		MW-8		MW-N	1	
		Laboratory ID:		1908001-004		1908001-005		1908001-006		1908001-007		
		Sampling Date:		07/31/2019		07/31/2019		07/31/2019		07/31/2019		
Cas #:	Procedure:	Analyte:	Units:		Q	(Q	(Q		Q	Limits
630-20-6	VOLATILE SW-846 METHOD 8260	1,1,1,2-Tetrachloroethane	PPB	0.25	U	0.25	U	0.25	U	0.25	U	5
71-55-6	VOLATILE SW-846 METHOD 8260	1,1,1-Trichloroethane	PPB	0.25	U	0.25	U	0.25 0	U	0.25	U	5
79-34-5		1,1,2,2-I etrachloroethane	PPB	0.25		0.25	U 11	0.25	U	0.25	0	5
79-00-5	VOLATILE SW-846 METHOD 8260	1 1 2-Trichloroethane	PPR	0.25	<u> </u>	0.25		0.25		0.25	0	
75-34-3	VOLATILE SW-846 METHOD 8260	1.1-Dichloroethane	PPB	0.25	U	0.25	U	0.25	U	0.25	U	5
75-35-4	VOLATILE SW-846 METHOD 8260	1,1-Dichloroethene	PPB	0.50	J	1.0	J	1.1	J	0.25	Ū	5
563-58-6	VOLATILE SW-846 METHOD 8260	1,1-Dichloropropene	PPB	0.25	U	0.25	U	0.25	U	0.25	U	1
87-61-6	VOLATILE SW-846 METHOD 8260	1,2,3-Trichlorobenzene	PPB	0.25	U	0.25 0	U	0.25 l	U	0.25	U	5
96-18-4	VOLATILE SW-846 METHOD 8260	1,2,3-Trichloropropane	PPB	0.25	U	0.25	U	0.25	U	0.25	U	5
95-93-2	VOLATILE SW-846 METHOD 8260	1,2,4,5-1 etramethylbenzene	PPB	0.25	<u>U</u>	0.25	U	0.25	J	0.25	U	5
120-82-1		1,2,4-I richlorobenzene	PPB	0.25		0.25		0.25		0.25		5
95-03-0	VOLATILE SW-846 METHOD 8260	1,2,4-Thinethybenzene 1,2-Dibromo-3-chloropropane	PPR	0.25	<u> </u>	0.25		0.25		0.25	0	0.04
106-93-4	VOLATILE SW-846 METHOD 8260	1.2-Dibromoethane	PPB	0.25	U	0.25	U	0.25	U	0.25	U	0.0006
95-50-1	VOLATILE SW-846 METHOD 8260	1,2-Dichlorobenzene	PPB	0.25	Ū	0.25	Ū	0.25	Ū	0.25	Ū	3
107-06-2	VOLATILE SW-846 METHOD 8260	1,2-Dichloroethane	PPB	0.25	U	0.25	U	0.25	U	0.25	U	0.6
78-87-5	VOLATILE SW-846 METHOD 8260	1,2-Dichloropropane	PPB	0.25	U	0.25 0	U	0.25 l	U	0.25	U	1
108-67-8	VOLATILE SW-846 METHOD 8260	1,3,5-Trimethylbenzene	PPB	0.25	U	0.25	U	0.25	U	0.25	U	5
541-73-1	VOLATILE SW-846 METHOD 8260	1,3-Dichlorobenzene	PPB	0.25	<u>U</u>	0.25	U	0.25	U	0.25	U	3
142-28-9		1,3-dichloropropane	PPB	0.25		0.25	U 11	0.25	U	0.25	0	5
100-40-7	VOLATILE SW-846 METHOD 8260	1,4-Dichiorobenzene	PPB	0.25		0.25		0.25		0.25		NA NA
594-20-7	VOLATILE SW-846 METHOD 8260	2.2-Dichloropropane	PPB	0.25	U	0.25	U	0.25	U	0.25	U	5
78-93-3	VOLATILE SW-846 METHOD 8260	2-Butanone	PPB	0.50	Ū	0.50	Ū	0.50	Ū	0.50	Ū	50
110-75-8	VOLATILE SW-846 METHOD 8260	2-Chloroethyl vinyl ether	PPB	10	U	10	U	10 l	U	10	U	NA
95-49-8	VOLATILE SW-846 METHOD 8260	2-Chlorotoluene	PPB	0.25	U	0.25 0	U	0.25 (U	0.25	U	5
591-78-6	VOLATILE SW-846 METHOD 8260	2-Hexanone	PPB	0.50	U	0.50	U	0.50	U	0.50	U	50
67-63-0	VOLATILE SW-846 METHOD 8260	2-Propanol	PPB	0.25	<u>U</u>	0.25	U	0.25	J	0.25	U	NA
106-43-4		4-Chiorotoluene	PPB DDB	0.25		0.25		0.25		0.25		5
108-10-1	VOLATILE SW-846 METHOD 8260	4-Nethyl-2-pentanone	PPB	0.25	<u>U</u>	0.25	U	0.25	J	0.23	0	NA
67-64-1	VOLATILE SW-846 METHOD 8260	Acetone	PPB	47	B	23	B	23	В	18	B	50
71-43-2	VOLATILE SW-846 METHOD 8260	Benzene	PPB	0.25	U	0.25	U	0.25	U	0.25	U	1
108-86-1	VOLATILE SW-846 METHOD 8260	Bromobenzene	PPB	0.25	U	0.25	U	0.25 l	U	0.25	U	5
74-97-5	VOLATILE SW-846 METHOD 8260	Bromochloromethane	PPB	0.25	U	0.25	U	0.25	U	0.25	U	5
75-27-4	VOLATILE SW-846 METHOD 8260	Bromodichloromethane	PPB	0.25	<u>U</u>	0.25	U	0.44	J	0.25	U	50
75-25-2	VOLATILE SW-846 METHOD 8260	Bromotorm	PPB	0.25		0.25	U	0.25	J	0.25	U	50
74-83-9	VOLATILE SW-846 METHOD 8260	Carbon disulfide	PPB PPB	0.25		0.25		0.25		0.25		
56-23-5	VOLATILE SW-846 METHOD 8260	Carbon tetrachloride	PPB	0.25	U	0.25	U	0.25	U	0.25	U	5
108-90-7	VOLATILE SW-846 METHOD 8260	Chlorobenzene	PPB	0.25	U	0.25	U	0.25	U	0.25	U	5
75-45-6	VOLATILE SW-846 METHOD 8260	Chlorodifluoromethane	PPB	0.25	U	0.25	U	0.25	U	0.25	U	NA
75-00-3	VOLATILE SW-846 METHOD 8260	Chloroethane	PPB	0.25	U	0.25	U	0.25 (U	0.25	U	5
67-66-3	VOLATILE SW-846 METHOD 8260	Chloroform	PPB	0.25	<u>U</u>	0.25	U	0.29	J	0.25	U	7
74-87-3	VOLATILE SW-846 METHOD 8260	Chloromethane	PPB	0.25	<u>U</u>	0.25	U	0.25	J	0.25	U	5
10061-01-5		cis-1.3-Dichloropropene		0.25		0.25 1		0.25 1		0.25		5
110-82-7	VOLATILE SW-846 METHOD 8260	Cyclohexane	PPB	0.25	<u>U</u>	0.25	U	0.25	J	0.25	U	NA
124-48-1	VOLATILE SW-846 METHOD 8260	Dibromochloromethane	PPB	0.25	Ŭ	0.25	U	0.25	Ŭ	0.25	Ŭ	50
74-95-3	VOLATILE SW-846 METHOD 8260	Dibromomethane	PPB	0.25	U	0.25	U	0.25 0	U	0.25	U	5
75-71-8	VOLATILE SW-846 METHOD 8260	Dichlorodifluoromethane	PPB	0.25	U	0.25 0	U	0.25 ሀ	U	0.25	U	5
108-20-3	VOLATILE SW-846 METHOD 8260	Diisopropyl ether	PPB	0.50	U	0.50	U	0.50	U	0.50	U	NA
64-17-5	VOLATILE SW-846 METHOD 8260	Ethanol	PPB	2.5	<u>U</u>	2.5	U	2.5	U	2.5	U	NA
100-41-4	VOLATILE SW-846 METHOD 8260	Ethylbenzene	PPB	0.25	<u>U</u>	0.25	U	0.25	J	0.25	U	5
70-14-2		Heyachlorobutadiene		0.25		0.25		0.25		0.25		0.5
98-82-8	VOLATILE SW-846 METHOD 8260	Isopropylbenzene	PPB	0.25	U	0.25	U	0.25	U	0.25	U	5
179601-23-1	VOLATILE SW-846 METHOD 8260	m,p-Xylene	PPB	0.50	Ū	0.50	Ū	0.50	U	0.50	Ū	5
79-20-9	VOLATILE SW-846 METHOD 8260	Methyl Acetate	PPB	0.25	U	0.25	U	0.25	U	0.25	U	NA
1634-04-4	VOLATILE SW-846 METHOD 8260	Methyl tert-butyl ether	PPB	0.25	U	0.25 0	U	0.25 (U	0.25	U	10
75-09-2	VOLATILE SW-846 METHOD 8260	Methylene chloride	PPB	2.8	B	2.7	В	2.9	B	2.8	В	5
104-51-8	VOLATILE SW-846 METHOD 8260	n-Butylbenzene	PPB	0.25		0.25	U	0.25	J	0.25	U	5
103-65-1	VOLATILE SW-846 METHOD 8260	n-Propyidenzene	PPB PPB	0.25		0.25		0.25		0.25		5 10
95-47-6	VOLATILE SW-846 METHOD 8260	o-Xvlene	PPB	0.25	<u>U</u>	0.25	U	0.25	U	0.25	U	5
105-05-5	VOLATILE SW-846 METHOD 8260	p-Diethylbenzene	PPB	0.25	Ŭ	0.25	Ŭ	0.25	Ŭ	0.25	Ŭ	NA
622-96-8	VOLATILE SW-846 METHOD 8260	p-Ethyltoluene	PPB	0.25	U	0.25	U	0.25	U	0.25	U	NA
135-98-8	VOLATILE SW-846 METHOD 8260	sec-Butylbenzene	PPB	0.25	U	0.25 0	U	0.25	U	0.25	U	5
100-42-5	VOLATILE SW-846 METHOD 8260	Styrene	PPB	0.25	U	0.25	U	0.25	U	0.25	U	5
75-65-0	VOLATILE SW-846 METHOD 8260	t-Butyl alcohol	PPB	2.5	U 	2.5	U	2.5 0	U I	2.5	U	NA
90-00-0 127-10 4		tert-Butylbenzene	PPP PPP	0.25	U	0.25		0.25		0.25	U	5
108-88-3		Toluene	PPR	0 32 00 ∩ 36	<u>р</u> В.1	0.25		0.251	Ľ.	0.31	D B.I	5
156-60-5	VOLATILE SW-846 METHOD 8260	trans-1.2-Dichloroethene	PPB	25	50	23	-	120	~	0.51	U	5
10061-02-6	VOLATILE SW-846 METHOD 8260	trans-1,3-Dichloropropene	PPB	0.25	U	0.25	U	0.25	U	0.25	Ũ	0.4
79-01-6	VOLATILE SW-846 METHOD 8260	Trichloroethene	PPB	1400	D	1300 I	D	110		13		5
75-69-4	VOLATILE SW-846 METHOD 8260	Trichlorofluoromethane	PPB	0.25	U	0.25	U	0.25	U	0.25	U	5
108-05-4	VOLATILE SW-846 METHOD 8260	Vinyl acetate	PPB	0.25	U	0.25	U	0.25	U	0.25	U	NA
/5-01-4	VOLATILE SW-846 METHOD 8260	Vinyl chloride	PPB	5.0		23		120		0.25	U	2
108-87-2			PPB	0.75		0.75		0.75		0.75	U	NA 5
107-02-0	VOLATILE SW-846 METHOD 8260	Acrylonitrile	PPR	0.25	<u>u</u>	1.01	U	1.01		0.∠5 1 ∩	U	5
1330-20-7	VOLATILE SW-846 METHOD 8260	Xylenes, Total	PPB	0.25	Ū	0.25	Ū	0.25	Ú	0.25	Ū	5

Table-2

Tabulated Off-site Groundwater Data

American Analytical Laboratories, LLC. WorkOrder: 1908134 Client: WRS d.b.a Berninger Environmental

Project: American Drive-In Cleaners, 1345 Peninsula Blvd, Hewlett, NY

Abbreviation: NA = Not available, no value specified in TOGsGW Limits

		Client Semple ID:		GW 4 @ 5 9'		CW 4 @ 45 40	CW/ 4 @ 26 201	TOCo	
		Client Sample ID:		GW-4 @ 5-9'		GW-4 @ 15-19'	GW-4 @ 26-30 [.]	TOGS	
		Laboratory ID:		1908134-001		1908134-002	1908134-003	Groundwater	
		Sampling Date:		08/15/2019		08/15/2019	08/15/2019	Limits	
Cas #:	Procedure:	Analyte:	Units:		Q	Q	Q		
630-20-6		1 1 1 2-Tetrachloroethane	DDB	0.25		0.25 []	0.25 []	5	
71 55 6		1,1,1,1,2 Tetrachloroethane		0.25		0.25 U	0.25 U	5	
71-33-0	VOLATILE SW-840 METHOD 8200			0.23	0	0.23 0	0.25 U	5	
79-34-5	VOLATILE SW-846 METHOD 8260	1,1,2,2-1 etrachioroethane	PPB	0.25	0	0.25 U	0.25 U	5	
76-13-1	VOLATILE SW-846 METHOD 8260	1,1,2-Trichloro-1,2,2-trifluoroethane	PPB	0.25	U	0.25 U	0.25 U	5	
79-00-5	VOLATILE SW-846 METHOD 8260	1,1,2-Trichloroethane	PPB	0.25	U	0.25 U	0.25 U	1	
75-34-3	VOLATILE SW-846 METHOD 8260	1,1-Dichloroethane	PPB	0.25	U	0.25 U	0.25 U	5	
75-35-4	VOLATILE SW-846 METHOD 8260	1.1-Dichloroethene	PPB	2.1		99	0.25 U	5	
563-58-6	VOLATILE SW-846 METHOD 8260	1 1-Dichloropropene	PPB	0.25		0.25 []	0.25 []	1	
97 61 6		1,2,2 Trichlorohonzono		0.20		0.26 0	0.25 U	5	
00 40 4	VOLATILE SW-840 METHOD 8200			0.25		0.25 U	0.25 U	5	
96-18-4	VOLATILE SW-846 METHOD 8260	1,2,3-Trichloropropane	РРВ	0.25	U	0.25 U	0.25 0	5	
95-93-2	VOLATILE SW-846 METHOD 8260	1,2,4,5-Tetramethylbenzene	PPB	0.25	U	0.25 U	0.25 U	5	
120-82-1	VOLATILE SW-846 METHOD 8260	1,2,4-Trichlorobenzene	PPB	0.25	U	0.25 U	0.25 U	5	
95-63-6	VOLATILE SW-846 METHOD 8260	1,2,4-Trimethylbenzene	PPB	0.25	U	0.25 U	0.25 U	5	
96-12-8	VOLATILE SW-846 METHOD 8260	1,2-Dibromo-3-chloropropane	PPB	0.25	U	0.25 U	0.25 U	0.04	
106-93-4	VOLATILE SW-846 METHOD 8260	1.2-Dibromoethane	PPB	0.25	U	0.25 U	0.25 U	0.0006	
95-50-1	VOLATILE SW-846 METHOD 8260	1.2-Dichlorobenzene	PPR	0.25	-	0.25 []	0.25 11	3	
107.06.2		1,2 Dichloroothana		0.25		0.25 U	0.25 U	0.6	
70.07.5				0.25		0.25 U	0.25 U	0.0	
78-87-5	VOLATILE SW-846 METHOD 8260	1,2-Dichloropropane	PPB	0.25	0	0.25 U	0.25 U	1	
108-67-8	VOLATILE SW-846 METHOD 8260	1,3,5-Trimethylbenzene	PPB	0.25	U	0.25 U	0.25 U	5	
541-73-1	VOLATILE SW-846 METHOD 8260	1,3-Dichlorobenzene	PPB	0.25	U	0.25 U	0.25 U	3	
142-28-9	VOLATILE SW-846 METHOD 8260	1,3-dichloropropane	PPB	0.25	U	0.25 U	0.25 U	5	
106-46-7	VOLATILE SW-846 METHOD 8260	1.4-Dichlorobenzene	PPB	0.25	U	0.25 U	0.25 U	3	
123-91-1	VOLATILE SW-846 METHOD 8260	1 4-Dioxane	PPB	0.25	Ŭ.	0.25 []	0.25 U	NΔ	
594-20-7		2.2-Dichloropropage	DDB	0.20		0.20 0	0.25 U	5	
394-20-7	VOLATILE SW-840 METHOD 8200			0.23	0	0.23 0	0.23 0	5	
78-93-3	VOLATILE SW-846 METHOD 8260	2-Butanone	PPB	0.50	U	0.50 U	0.50 U	50	
110-75-8	VOLATILE SW-846 METHOD 8260	2-Chloroethyl vinyl ether	PPB	10	U	10 U	10 U	NA	
95-49-8	VOLATILE SW-846 METHOD 8260	2-Chlorotoluene	PPB	0.25	U	0.25 U	0.25 U	5	
591-78-6	VOLATILE SW-846 METHOD 8260	2-Hexanone	PPB	0.50	С	0.50 U	0.50 U	50	
67-63-0	VOLATILE SW-846 METHOD 8260	2-Propanol	PPB	0.25	U	0 25 U	0 25 U	NA	
106-43-4	VOLATILE SW-846 METHOD 8260	4-Chlorotoluene	PPR	0.25		0.25 11	0.25 11	5	
00 97 6	VOLATILE SW 846 METHOD 8260			0.25		0.25 U	0.25 0	5	
99-87-6	VOLATILE SW-846 METHOD 8260	4-isopropyitoluene	PPB	0.25	0	0.25 U	0.25 0	5	
108-10-1	VOLATILE SW-846 METHOD 8260	4-Methyl-2-pentanone	PPB	0.50	U	0.50 U	0.50 U	NA	
67-64-1	VOLATILE SW-846 METHOD 8260	Acetone	PPB	17	В	13 B	11 B	50	
71-43-2	VOLATILE SW-846 METHOD 8260	Benzene	PPB	0.25	U	0.25 U	0.25 U	1	
108-86-1	VOLATILE SW-846 METHOD 8260	Bromobenzene	PPB	0.25	U	0.25 U	0.25 U	5	
74-97-5	VOLATILE SW-846 METHOD 8260	Bromochloromethane	PPB	0.25	U	0 25 U	0 25 U	5	
75-27-4	VOLATILE SW-846 METHOD 8260	Bromodichloromethane	PPR	0.25		0.25 U	0.25 11	50	
75-27-4		Diomodiciliorometriarie		0.25		0.25 U	0.25 U	50	
75-25-2	VOLATILE SW-846 METHOD 8260	Bromotorm	PPB	0.25	0	0.25 U	0.25 U	50	
74-83-9	VOLATILE SW-846 METHOD 8260	Bromomethane	PPB	0.25	U	0.25 U	0.25 U	5	
75-15-0	VOLATILE SW-846 METHOD 8260	Carbon disulfide	PPB	0.25	U	0.25 U	0.25 U	NA	
56-23-5	VOLATILE SW-846 METHOD 8260	Carbon tetrachloride	PPB	0.25	U	0.25 U	0.25 U	5	
108-90-7	VOLATILE SW-846 METHOD 8260	Chlorobenzene	PPB	0.25	С	0.25 U	0.25 U	5	
75-45-6	VOLATILE SW-846 METHOD 8260	Chlorodifluoromethane	PPB	0.25	U	0 25 U	0 25 U	NA	
75-00-3	VOLATILE SW-846 METHOD 8260	Chloroethane	PPB	0.25	Ŭ	0.25 U	0.25 11	5	
67 66 2		Chloroform		0.20		0.26 0	0.25 U	7	
07-00-3	VOLATILE SW-846 METHOD 8260	Chlorototh	PPD	0.25	0	0.25 U	0.25 0	1	
74-87-3	VOLATILE SW-846 METHOD 8260	Chloromethane	РРВ	0.25	U	0.25 U	0.25 U	5	
156-59-2	VOLATILE SW-846 METHOD 8260	cis-1,2-Dichloroethene	PPB	<u>330</u>	D	35000 D	<u>59</u>	5	
10061-01-5	VOLATILE SW-846 METHOD 8260	cis-1,3-Dichloropropene	PPB	0.25	U	0.25 U	0.25 U	0.4	
110-82-7	VOLATILE SW-846 METHOD 8260	Cvclohexane	PPB	0.25	U	0.25 U	0.25 U	NA	
124-48-1	VOLATILE SW-846 METHOD 8260	Dibromochloromethane	PPR	0.25	-	0.25 []	0.25 11	50	
74 05 2		Dibromomothono		0.25		0.25 0	0.25 0	50	
74-95-5	VOLATILE SW-646 METHOD 6260	Dibromomethane		0.25	0	0.25 U	0.25 U	5	
/5-/1-8	VOLATILE SW-846 METHOD 8260	Dicniorodifiuorometnane	PPB	0.25	U	0.25 U	0.25 U	5	
108-20-3	VOLATILE SW-846 METHOD 8260	Diisopropyl ether	PPB	0.50	U	0.50 U	0.50 U	NA	
64-17-5	VOLATILE SW-846 METHOD 8260	Ethanol	PPB	2.5	U	2.5 U	2.5 U	NA	
100-41-4	VOLATILE SW-846 METHOD 8260	Ethylbenzene	PPB	0.25	U	0.25 U	0.25 U	5	
76-14-2	VOLATILE SW-846 METHOD 8260	Freon-114	PPB	0.25	U	0.25 U	0.25 U	NA	
87-68-3	VOLATILE SW-846 METHOD 8260	Hexachlorobutadiene	PPR	0.25	U.	0.2511	0.2511	0.5	
98-82-8	VOLATILE SW-846 METHOD 8260	Isopropylbenzene	PPR	0.25	-	0.25 U	0.25 U	5	
170601 00 4		m n Vulana		0.23		0.20 0	0.20 0	5	
1/9001-23-1	VOLATILE SVV-846 METHOD 8260	m,p-Aylene	LLR LLLR	0.50	U	0.50 U	0.50 U	5	
79-20-9	VOLATILE SW-846 METHOD 8260	wethyl Acetate	РРВ	0.25	U	0.25 U	0.25 U	NA	
1634-04-4	VOLATILE SW-846 METHOD 8260	Methyl tert-butyl ether	PPB	0.25	U	0.54 J	0.25 U	10	
75-09-2	VOLATILE SW-846 METHOD 8260	Methylene chloride	PPB	6.4	В	6.2 B	6.3 B	5	
104-51-8	VOLATILE SW-846 METHOD 8260	n-Butylbenzene	PPB	0.25	U	0.25 U	0.25 U	5	
103-65-1	VOLATILE SW-846 METHOD 8260	n-Propylbenzene	PPB	0.25	U	0 25 U	0 25 U	5	
91-20-3	VOLATILE SW-846 METHOD 8260	Naphthalene	PPR	0.25		0.25 U	0.25 11	10	
05 47 6	VOLATILE SW 846 METHOD 8260			0.25		0.25 U	0.25 0	5	
93-47-0	VOLATILE SW-846 METHOD 8260		PPD	0.25	0	0.25 U	0.25 0	5	
105-05-5	VOLATILE SW-846 METHOD 8260	p-Diethylbenzene	PPB	0.25	U	0.25 U	0.25 U	NA	
622-96-8	VOLATILE SW-846 METHOD 8260	p-Ethyltoluene	PPB	0.25	U	0.25 U	0.25 U	NA	
135-98-8	VOLATILE SW-846 METHOD 8260	sec-Butylbenzene	PPB	0.25	U	0.25 U	0.25 U	5	
100-42-5	VOLATILE SW-846 METHOD 8260	Styrene	PPB	0.25	U	0.25 U	0.25 U	5	
75-65-0	VOLATILE SW-846 METHOD 8260	t-Butyl alcohol	PPB	2.5	U	2511	250	NA	
98-06-6	VOLATILE SW-846 METHOD 8260	tert-Butylbenzene	PPR	0.25	ú	0.2511	0.2511	5	
107 10 4				0.23	-	0.20 0	0.20 0	5	
127-18-4	VOLATILE SVV-846 METHOD 8260	retrachioroethene	PPB	150	U U	U.78 J	0.79 J	5	
108-88-3	VOLATILE SW-846 METHOD 8260	Ioluene	РРВ	0.25	U	0.68 J	0.25 U	5	
156-60-5	VOLATILE SW-846 METHOD 8260	trans-1,2-Dichloroethene	PPB	6.7		190	0.49 J	5	
10061-02-6	VOLATILE SW-846 METHOD 8260	trans-1.3-Dichloropropene	PPB	0 25 1	U	0.25 U	0.25 U	0.4	
79-01-6		Trichloroethene	PPP	100	-	1200	0.25 0	5	
75 00 (100		1300 D	0.25 U	5	
15-69-4	VOLATILE SW-846 METHOD 8260	Iricniorofluoromethane	РРВ	0.25	U	0.25 U	0.25 U	5	
108-05-4	VOLATILE SW-846 METHOD 8260	Vinyl acetate	PPB	0.25	U	0.25 U	0.25 U	NA	
75-01-4	VOLATILE SW-846 METHOD 8260	Vinyl chloride	PPB	0.25	U	24	0.25 U	2	
1330-20-7	VOLATILE SW-846 METHOD 8260	Xvlenes, Total	PPB	0.75	U	0 75 11	0 75 11	5	
108-87-2	VOLATILE SW-846 METHOD 8260	Methylcyclohexane	PPR	0.75	Ú	0.2511	0.2511	NΔ	
107-02-8		Acrolein	PPR	1.0	-	1011	1011	5	
107 10 4		Aandonitrilo		1.0		0.05	0.00	5	
107-13-1	VULATILE 311-840 NETHOD 8260	ACIVIONIUNE	ггв	0.25	υ	0.25 U	U.25 U	5	

American Analytical Laboratories, LLC. WorkOrder: 1908134 Client: WRS d.b.a Berninger Environmental

Project: American Drive-In Cleaners, 1345 Peninsula Blvd, Hewlett, NY

Abbreviation: NA = Not available, no value specified in TOGsGW Limits

			liant Complet ID:					TOOL	
		Client Sample ID:	GW-5 @ 5-9			GW-5 @ 15-19"	GW-5 @ 26-30'	TOGS	
		Laboratory ID:		1908134-004		1908134-005	1908134-006	Groundwater	
		Sampling Date:		08/15/2019		08/15/2019	08/15/2019	Limits	
Cas #:	Procedure:	Analyte:	Units:		Q	Q	Q		
630-20-6	VOLATILE SW-846 METHOD 8260	1 1 1 2-Tetrachloroethane	PPR	0.25	11	0.25 []	0.25 []	5	
71-55-6		1 1 1-Trichloroethane	DDB	0.25		0.25 U	0.25 U	5	
71 33 0		1,1,2,2 Tetrachlaraethana		0.25		0.25 0	0.25 0	5	
79-34-3		1,1,2,2-Tellacilloroethane		0.25	0	0.25 U	0.25 U	5	
70-13-1	VOLATILE SW-840 METHOD 8200			0.25	0	0.25 U	0.25 0	5	
79-00-5	VOLATILE SW-646 METHOD 8260		PPD	0.25	0	0.25 0	0.25 0		
75-34-3	VOLATILE SW-846 METHOD 8260	1,1-Dichloroethane	РРВ	0.25	U	0.25 U	0.25 U	5	
75-35-4	VOLATILE SW-846 METHOD 8260	1,1-Dichloroethene	PPB	0.25	U	30	12	5	
563-58-6	VOLATILE SW-846 METHOD 8260	1,1-Dichloropropene	PPB	0.25	U	0.25 U	0.25 U	1	
87-61-6	VOLATILE SW-846 METHOD 8260	1,2,3-Trichlorobenzene	PPB	0.25	U	0.25 U	0.25 U	5	
96-18-4	VOLATILE SW-846 METHOD 8260	1,2,3-Trichloropropane	PPB	0.25	U	0.25 U	0.25 U	5	
95-93-2	VOLATILE SW-846 METHOD 8260	1,2,4,5-Tetramethylbenzene	PPB	0.25	U	0.25 U	0.25 U	5	
120-82-1	VOLATILE SW-846 METHOD 8260	1.2.4-Trichlorobenzene	PPB	0.25	U	0.25 U	0.25 U	5	
95-63-6	VOLATILE SW-846 METHOD 8260	1.2.4-Trimethylbenzene	PPB	0.25	U	0.25 U	0.25 U	5	
96-12-8	VOLATILE SW-846 METHOD 8260	1 2-Dibromo-3-chloropropane	PPB	0.25	Ŭ	0.25 U	0.25 U	0.04	
106-93-4	VOLATILE SW-846 METHOD 8260	1 2-Dibromoethane	PPB	0.25	Ŭ	0.25 U	0.25 U	0.0006	
95-50-1		1.2-Dichlorobenzene	DDB	0.20		0.25 U	0.20 0	3	
107.06.2		1.2 Dichloroothana		0.25		0.25 U	0.25 U	0.6	
70.07.5	VOLATILE SW-846 METHOD 8200			0.25	0	0.25 U	0.25 U	0.0	
/8-8/-5	VOLATILE SW-846 METHOD 8260	1,2-Dichloropropane	PPB	0.25	0	0.25 U	0.25 U	1	
108-67-8	VOLATILE SW-846 METHOD 8260	1,3,5-I rimethylbenzene	РРВ	0.25	U	0.25 U	0.25 U	5	
541-73-1	VOLATILE SW-846 METHOD 8260	1,3-Dichlorobenzene	PPB	0.25	U	0.25 U	0.25 U	3	
142-28-9	VOLATILE SW-846 METHOD 8260	1,3-dichloropropane	PPB	0.25	U	0.25 U	0.25 U	5	
106-46-7	VOLATILE SW-846 METHOD 8260	1,4-Dichlorobenzene	PPB	0.25	U	0.25 U	0.25 U	3	
123-91-1	VOLATILE SW-846 METHOD 8260	1,4-Dioxane	PPB	0.25	U	0.25 U	0.25 U	NA	
594-20-7	VOLATILE SW-846 METHOD 8260	2,2-Dichloropropane	PPB	0.25	U	0.25 U	0.25 U	5	
78-93-3	VOLATILE SW-846 METHOD 8260	2-Butanone	PPB	0.50	U	0.50 U	0.50 U	50	
110-75-8	VOLATILE SW-846 METHOD 8260	2-Chloroethyl vinyl ether	PPB	10	U	10 U	10 U	NA	
95-49-8	VOLATILE SW-846 METHOD 8260	2-Chlorotoluene	PPB	0.25	U	0.25 U	0.25 U	5	
591-78-6	VOLATILE SW-846 METHOD 8260	2-Hexanone	PPB	0.50	Ū	0.50 U	0.50 U	50	
67-63-0	VOLATILE SW-846 METHOD 8260	2-Propanol	PPB	0.25	Ŭ.	0.000	0.25 []	NA	
106-43-4		4-Chlorotoluene	DDB	0.25		0.25 U	0.25 U	5	
00 97 6				0.25		0.25 U	0.25 U	5	
109 10 1		4 Methyl 2 pentenene		0.23	0	0.25 0	0.25 0	J NA	
108-10-1		4-Methyl-2-pentanone	PPB	0.50	U	0.50 0	0.50 0	NA 50	
67-64-1	VOLATILE SW-846 METHOD 8260	Acetone	PPB	19	в	13 B	30 B	50	
/1-43-2	VOLATILE SW-846 METHOD 8260	Benzene	PPB	0.25	U	0.25 U	0.25 U	1	
108-86-1	VOLATILE SW-846 METHOD 8260	Bromobenzene	РРВ	0.25	U	0.25 U	0.25 U	5	
74-97-5	VOLATILE SW-846 METHOD 8260	Bromochloromethane	PPB	0.25	U	0.25 U	0.25 U	5	
75-27-4	VOLATILE SW-846 METHOD 8260	Bromodichloromethane	PPB	0.25	U	0.25 U	0.25 U	50	
75-25-2	VOLATILE SW-846 METHOD 8260	Bromoform	PPB	0.25	U	0.25 U	0.25 U	50	
74-83-9	VOLATILE SW-846 METHOD 8260	Bromomethane	PPB	0.25	U	0.25 U	0.25 U	5	
75-15-0	VOLATILE SW-846 METHOD 8260	Carbon disulfide	PPB	0.25	U	0.25 U	0.25 U	NA	
56-23-5	VOLATILE SW-846 METHOD 8260	Carbon tetrachloride	PPB	0.25	U	0.25 U	0.25 U	5	
108-90-7	VOLATILE SW-846 METHOD 8260	Chlorobenzene	PPB	0.25	U	0.25 U	0.25 U	5	
75-45-6	VOLATILE SW-846 METHOD 8260	Chlorodifluoromethane	PPB	0.25	U	0.25 U	0.25 U	NA	
75-00-3	VOLATILE SW-846 METHOD 8260	Chloroethane	PPB	0.25	U	0.25 U	0.25 U	5	
67-66-3	VOLATILE SW-846 METHOD 8260	Chloroform	PPB	0.25	Ū	0.25 U	0.25 U	7	
74-87-3	VOLATILE SW-846 METHOD 8260	Chloromethane	PPB	0.25	Ŭ	0.25 U	0.25 U	5	
156-59-2		cis-1 2-Dichloroethene	PPB	260	D	10000 D	570 D	5	
10061 01 5		cia 1.2 Dichloropropana		0.05		0.05	0.25 11	0.4	
110001-01-5				0.25	0	0.25 U	0.25 U	0.4	
110-02-7	VOLATILE SW-646 METHOD 8260	Cyclonexane	PPD	0.25	0	0.25 0	0.25 0	NA	
124-48-1	VOLATILE SW-846 METHOD 8260	Dibromocniorometnane	PPB	0.25	0	0.25 U	0.25 U	50	
74-95-3	VOLATILE SW-846 METHOD 8260	Dibromometnane	PPB	0.25	0	0.25 U	0.25 U	5	
/5-/1-8	VOLATILE SW-846 METHOD 8260	Dichlorodifluoromethane	РРВ	0.25	0	0.25 U	0.25 U	5	
108-20-3	VOLATILE SW-846 METHOD 8260	Dilsopropyl ether	PPB	0.50	U	0.50 U	0.50 U	NA	
64-17-5	VOLATILE SW-846 METHOD 8260	Ethanol	PPB	2.5	U	2.5 U	2.5 U	NA	
100-41-4	VOLATILE SW-846 METHOD 8260	Ethylbenzene	PPB	0.25	U	0.25 U	0.25 U	5	
76-14-2	VOLATILE SW-846 METHOD 8260	Freon-114	PPB	0.25	U	0.25 U	0.25 U	NA	
87-68-3	VOLATILE SW-846 METHOD 8260	Hexachlorobutadiene	PPB	0.25	U	0.25 U	0.25 U	0.5	
98-82-8	VOLATILE SW-846 METHOD 8260	Isopropylbenzene	PPB	0.25	U	0.25 U	0.25 U	5	
179601-23-1	VOLATILE SW-846 METHOD 8260	m,p-Xylene	PPB	0.50	U	0.50 U	0.50 U	5	
79-20-9	VOLATILE SW-846 METHOD 8260	Methyl Acetate	PPB	0.25	U	0.25 U	0.25 U	NA	
1634-04-4	VOLATILE SW-846 METHOD 8260	Methyl tert-butyl ether	PPB	0.25	U	0.27 J	0.25 U	10	
75-09-2	VOLATILE SW-846 METHOD 8260	Methylene chloride	PPB	6.2	В	5.2 B	5.5 B	5	
104-51-8	VOLATILE SW-846 METHOD 8260	n-Butylbenzene	PPB	0.25	U	0.25 U	0.25 U	5	
103-65-1	VOLATILE SW-846 METHOD 8260	n-Propylbenzene	PPB	0.25	U	0.25 U	0.25 U	5	
91-20-3	VOLATILE SW-846 METHOD 8260	Naphthalene	PPB	0.25	U	0.25 U	0.25 U	10	
95-47-6	VOLATILE SW-846 METHOD 8260	o-Xvlene	PPB	0.25	Ū	0.25 U	0.25 U	5	
105-05-5	VOLATILE SW-846 METHOD 8260	p-Diethylbenzene	PPB	0.25	Ŭ	0.25 U	0.25 U	NA	
622-96-8	VOI ATILE SW-846 METHOD 8260	p-Ethyltoluene	PPR	0.20	Ū	0 25 11	0.2511	NA	
135-08-8	VOLATILE SW-846 METHOD 8260	sec-Butylbenzene	PPR	0.25	11	0.25 0	0.25 0	5	
100-42-5		Styrana	PPR	0.20	11	0.25 0	0.20 0	5	
75 65 0		t Putul alaabal		0.25	0	0.20 0	0.20 0	5	
10-00-U		t-Dutyl alconol		2.5	U	2.5 U	2.5 U	NA	
30-00-00				0.25	υ	0.25 U	0.25 U	5	
127-18-4	VOLATILE SW-846 METHOD 8260	I etrachloroethene	РРВ	33	L	47	9.6	5	
108-88-3	VOLATILE SW-846 METHOD 8260	Toluene	PPB	0.25	U	0.28 J	0.25 U	5	
156-60-5	VOLATILE SW-846 METHOD 8260	trans-1,2-Dichloroethene	PPB	1.5	J	63	2.7	5	
10061-02-6	VOLATILE SW-846 METHOD 8260	trans-1,3-Dichloropropene	PPB	0.25	U	0.25 U	0.25 U	0.4	
79-01-6	VOLATILE SW-846 METHOD 8260	Trichloroethene	PPB	46		1700 D	300	5	
75-69-4	VOLATILE SW-846 METHOD 8260	Trichlorofluoromethane	PPR	0.25	U	0.25	0.25 []	5	
108-05-4	VOLATILE SW-846 METHOD 8260	Vinyl acetate	PPR	0.25	Ŭ	0.2511	0.25 0	NA	
75-01-4		Vinyl chloride	PPP	0.25	11	12	<u>0.20</u> 0	2	
1020 00 7		Vulance Totol		0.25	0	12	0.9	-	
100 07 0		Ayrenes, Tular Mothylovolohovono		0.75	0	0.75 U	0.75 U	3	
108-87-2	VOLATILE SVV-846 METHOD 8260		LLR LLLR	0.25	U	0.25 U	U.25 U	NA	
107-02-8	VOLATILE SW-846 METHOD 8260	Acroiem	LLR LLLR	1.0	0	1.0 0	1.0 0	5	
107-13-1	VULATILE SW-846 METHOD 8260	ACIVIONITILE	PPR	() 25	111	0.2511	0.2511	2	

American Analytical Laboratories, LLC. WorkOrder: 1908134 Client: WRS d.b.a Berninger Environmental

Project: American Drive-In Cleaners, 1345 Peninsula Blvd, Hewlett, NY

Abbreviation: NA = Not available, no value specified in TOGsGW Limits

		Client Sample ID:	GW-6 @ 5-9'	GW-6 @ 15-19'	GW-6 @ 26-30'	TOGS	
		Laboratory ID:		1908134-007	1908134-008	1908134-009	Groundwater
		Sampling Date:		08/15/2019	08/15/2019	08/15/2019	Limits
Cas #:	Procedure:	Analvte:	Units:	Q	Q	Q	
630-20-6	VOLATILE SW-846 METHOD 8260	1 1 1 2-Tetrachloroethane	PPR	0.25 []	0.25 []	0.25 []	5
71-55-6		1 1 1-Trichloroethane	DDB	0.25 U	0.25 U	0.25 U	5
71-33-0				0.25 0	0.25 0	0.25 0	5
79-34-3	VOLATILE SW-646 METHOD 6260	1,1,2,2-Tetrachioroethane		0.25 U	0.25 U	0.25 U	5
70-13-1		1,1,2-Thchloro-1,2,2-thhuoroethane		0.25 U	0.25 0	0.25 U	5
79-00-5	VOLATILE SW-846 METHOD 8260	1,1,2-1 richloroethane	PPB	0.25 0	0.25 0	0.25 0	1
75-34-3	VOLATILE SW-846 METHOD 8260	1,1-Dichloroethane	PPB	0.25 U	0.25 U	0.25 U	5
75-35-4	VOLATILE SW-846 METHOD 8260	1,1-Dichloroethene	PPB	0.25 U	0.51 J	0.25 U	5
563-58-6	VOLATILE SW-846 METHOD 8260	1,1-Dichloropropene	PPB	0.25 U	0.25 U	0.25 U	1
87-61-6	VOLATILE SW-846 METHOD 8260	1,2,3-Trichlorobenzene	PPB	0.25 U	0.25 U	0.25 U	5
96-18-4	VOLATILE SW-846 METHOD 8260	1,2,3-Trichloropropane	PPB	0.25 U	0.25 U	0.25 U	5
95-93-2	VOLATILE SW-846 METHOD 8260	1,2,4,5-Tetramethylbenzene	PPB	0.25 U	0.25 U	0.25 U	5
120-82-1	VOLATILE SW-846 METHOD 8260	1,2,4-Trichlorobenzene	PPB	0.25 U	0.25 U	0.25 U	5
95-63-6	VOLATILE SW-846 METHOD 8260	1,2,4-Trimethylbenzene	PPB	0.25 U	0.25 U	0.25 U	5
96-12-8	VOLATILE SW-846 METHOD 8260	1.2-Dibromo-3-chloropropane	PPB	0.25 U	0.25 U	0.25 U	0.04
106-93-4	VOLATILE SW-846 METHOD 8260	1 2-Dibromoethane	PPB	0.25 U	0.25 U	0.25 U	0.0006
95-50-1	VOLATILE SW-846 METHOD 8260	1 2-Dichlorobenzene	PPB	0.25 U	0.25 U	0.25 U	3
107-06-2		1.2-Dichloroethane	DDB	0.20 0	0.20 0	0.20 0	0.6
70 07 5				0.25 U	0.25 U	0.25 U	0.0
10-01-0	VOLATILE SW-846 METHOD 8200	1,2-Dichloropropane		0.25 0	0.23 0	0.25 0	5
108-67-8	VOLATILE SW-846 METHOD 8260	1,3,5-1 rimethylbenzene	PPB	0.25 U	0.25 0	0.25 U	5
541-73-1	VOLATILE SW-846 METHOD 8260	1,3-Dichlorobenzene	PPB	0.25 U	0.25 U	0.25 U	3
142-28-9	VOLATILE SW-846 METHOD 8260	1,3-dichloropropane	PPB	0.25 U	0.25 U	0.25 U	5
106-46-7	VOLATILE SW-846 METHOD 8260	1,4-Dichlorobenzene	РРВ	0.25 U	0.25 U	0.25 U	3
123-91-1	VOLATILE SW-846 METHOD 8260	1,4-Dioxane	РРВ	0.25 U	0.25 U	0.25 U	NA
594-20-7	VOLATILE SW-846 METHOD 8260	2,2-Dichloropropane	PPB	0.25 U	0.25 U	0.25 U	5
78-93-3	VOLATILE SW-846 METHOD 8260	2-Butanone	PPB	0.50 U	0.50 U	0.50 U	50
110-75-8	VOLATILE SW-846 METHOD 8260	2-Chloroethyl vinyl ether	PPB	10 U	10 U	10 U	NA
95-49-8	VOLATILE SW-846 METHOD 8260	2-Chlorotoluene	PPB	0.25 U	0.25 U	0.25 U	5
591-78-6	VOLATILE SW-846 METHOD 8260	2-Hexanone	PPB	0.50 U	0.50 U	0.50 U	50
67-63-0	VOLATILE SW-846 METHOD 8260	2-Propanol	PPB	0.25 U	0.25 U	0.25 U	NA
106-43-4	VOLATILE SW-846 METHOD 8260	4-Chlorotoluene	PPB	0.25 U	0.25 U	0.25 U	5
99-87-6	VOLATILE SW-846 METHOD 8260	4-Isopropyltoluene	PPB	0.25 U	0.25 U	0.25 U	5
108-10-1	VOLATILE SW-846 METHOD 8260	4-Methyl-2-pentanone	PPB	0.50 U	0.50 U	0.50 U	ΝΔ
67-64-1	VOLATILE SW-846 METHOD 8260		DDB	0.30 U	0.30 U	0.30 U	50
71 /2 2		Bonzono		0.25 []	0.25 U	0.25 []	30
11-43-2	VOLATILE SW-846 METHOD 8200			0.25 0	0.23 0	0.25 0	5
108-80-1	VOLATILE SW-846 METHOD 8260	Bromobenzene	PPB	0.25 U	0.25 U	0.25 U	5
74-97-5	VOLATILE SW-846 METHOD 8260	Bromochloromethane	PPB	0.25 0	0.25 0	0.25 0	5
75-27-4	VOLATILE SW-846 METHOD 8260	Bromodichloromethane	PPB	0.25 U	0.25 U	0.25 U	50
75-25-2	VOLATILE SW-846 METHOD 8260	Bromoform	PPB	0.25 U	0.25 U	0.25 U	50
74-83-9	VOLATILE SW-846 METHOD 8260	Bromomethane	PPB	0.25 U	0.25 U	0.25 U	5
75-15-0	VOLATILE SW-846 METHOD 8260	Carbon disulfide	PPB	0.25 U	0.25 U	0.25 U	NA
56-23-5	VOLATILE SW-846 METHOD 8260	Carbon tetrachloride	PPB	0.25 U	0.25 U	0.25 U	5
108-90-7	VOLATILE SW-846 METHOD 8260	Chlorobenzene	PPB	0.25 U	0.25 U	0.25 U	5
75-45-6	VOLATILE SW-846 METHOD 8260	Chlorodifluoromethane	PPB	0.25 U	0.25 U	0.25 U	NA
75-00-3	VOLATILE SW-846 METHOD 8260	Chloroethane	PPB	0.25 U	0.25 U	0.25 U	5
67-66-3	VOLATILE SW-846 METHOD 8260	Chloroform	PPB	0.25 U	0.25 U	0.25 U	7
74-87-3	VOLATILE SW-846 METHOD 8260	Chloromethane	PPB	0.25 U	0.25 U	0.25 U	5
156-59-2	VOLATILE SW-846 METHOD 8260	cis-1,2-Dichloroethene	PPB	<u>6.8</u>	110	0.25 U	5
10061-01-5	VOLATILE SW-846 METHOD 8260	cis-1,3-Dichloropropene	PPB	0.25 U	0.25 U	0.25 U	0.4
110-82-7	VOLATILE SW-846 METHOD 8260	Cyclohexane	PPB	0.25 U	0.25 U	0.25 U	NA
124-48-1	VOLATILE SW-846 METHOD 8260	Dibromochloromethane	PPB	0.25 U	0.25 U	0.25 U	50
74-95-3	VOLATILE SW-846 METHOD 8260	Dibromomethane	PPB	0.25 U	0.25 U	0.25 U	5
75-71-8	VOLATILE SW-846 METHOD 8260	Dichlorodifluoromethane	PPB	0.25 U	0.25 U	0.25 U	5
108-20-3	VOLATILE SW-846 METHOD 8260	Dijsopropyl ether	PPB	0.50 U	0.50 U	0.50 U	NA
64-17-5	VOLATILE SW-846 METHOD 8260	Ethanol	PPR	2511	2511	2511	NΔ
100-41-4	VOLATILE SW-846 METHOD 8260	Ethylbenzene	PPB	0.25 U	0.25 []	0.25 U	5
76-14-2		Ereon-114	DDB	0.20 0	0.20 0	0.20 0	NA
87-68-3	VOLATILE SW-846 METHOD 8260	Hexachlorobutadiene	PPB	0.25 U	0.25 U	0.25 U	0.5
08-82-8		Isonronylbenzene	PPP	0.25 0	0.23 0	0.25 0	5
179601-22 1		m n-Xvlene		0.25 0	0.25 0	0.25 0	5
70 20 0		Mothyl Apototo		0.50 0	0.50 0	0.50 0	J
19-20-9		Mothyl tort but 1 ath an		0.25 U	0.25 0	0.25 U	INA 40
7634-04-4	VOLATILE SW-846 METHOD 8260	Methyl tert-butyl ether	PPB	0.25 0	0.60 J	0.25 0	10
75-09-2	VOLATILE SW-846 METHOD 8260	Methylene chloride	PPB	5.8 B	5.6 B	6.9 B	5
104-51-8	VOLATILE SW-846 METHOD 8260	n-Butylbenzene	PPB	0.25 U	0.25 U	0.25 U	5
103-65-1	VOLATILE SW-846 METHOD 8260	n-Propylbenzene	PPB	0.25 U	0.25 U	0.25 U	5
91-20-3	VOLATILE SW-846 METHOD 8260	Naphthalene	PPB	0.25 U	0.25 U	0.25 U	10
95-47-6	VOLATILE SW-846 METHOD 8260	o-Xylene	PPB	0.25 U	0.25 U	0.25 U	5
105-05-5	VOLATILE SW-846 METHOD 8260	p-Diethylbenzene	PPB	0.25 U	0.25 U	0.25 U	NA
622-96-8	VOLATILE SW-846 METHOD 8260	p-Ethyltoluene	PPB	0.25 U	0.25 U	0.25 U	NA
135-98-8	VOLATILE SW-846 METHOD 8260	sec-Butylbenzene	PPB	0.25 U	0.25 U	0.25 U	5
100-42-5	VOLATILE SW-846 METHOD 8260	Styrene	PPB	0.25 U	0.25 U	0.25 U	5
75-65-0	VOLATILE SW-846 METHOD 8260	t-Butyl alcohol	PPB	2.5 U	2.5 U	2.5 U	NA
98-06-6	VOLATILE SW-846 METHOD 8260	tert-Butylbenzene	PPB	0.25 U	0.25 U	0.25 U	5
127-18-4	VOLATILE SW-846 METHOD 8260	Tetrachloroethene	PPB	0.25 U	0.25 U	0.25 U	5
108-88-3	VOLATILE SW-846 METHOD 8260	Toluene	PPB	0.25 U	0.25 U	0.25 U	5
156-60-5	VOLATILE SW-846 METHOD 8260	trans-1.2-Dichloroethene	PPB	0.25 U	0.93.1	0 25 11	5
10061-02-6	VOLATILE SW-846 METHOD 8260	trans-1.3-Dichloropropene	PPR	0 25 U	0 25 11	0 25 11	0.4
79-01-6		Trichloroethene	PPR	0.2511	12	0.2511	5
75-60-4		Trichlorofluoromethana		0.25 0	0.25	0.25 0	5
109 05 4		Vinul apototo		0.25 U	0.25 U	0.25 U	J
75 01 4		Vinyl ablarida		0.25 U	0.25 U	0.25 U	NA O
10-01-4	VOLATILE SW-846 METHOD 8260	Vinyi chionae	PPP	0.25 U	0.25 U	0.25 U	2
1330-20-7	VOLATILE SW-846 METHOD 8260	Ayrenes, Total	PPP	0.75 U	0.75 U	0.75 U	5
108-87-2	VOLATILE SW-846 METHOD 8260		PP2	0.25 U	0.25 U	0.25 U	NA
107-02-8	VOLATILE SW-846 METHOD 8260	Acrolein	PPB	1.0 U	1.0 U	1.0 U	5
107-13-1	VOLATILE SW-846 METHOD 8260	Acrylonitrile	PPB	0.25 U	0.25 U	0.25 U	5

Table-3

Tabulated PFAS and 1, 4 Dioxane Data

SAMPLE		PREPARED	ANALYZED		ANALYTE	RESULT	UNIT	QUALIFIER	MDL	RL	DIL FAC
MW-1	PFOA	8/8/2019 6:01	8/10/2019 20:59	Dilution1	Perfluorobutanoic acid (PFBA)	12.4	ng/l	JD	3.12	17.8	10
MW-1	PFOA	8/8/2019 6:01	8/13/2019 10:07	Dilution2	Perfluorooctanesulfonic acid (PFOS)	3530	ng/l	DB	9.64	35.7	20
MW-1	PFOA	8/8/2019 6:01	8/9/2019 8:26	INITIAL	Perfluoropentanoic acid (PFPeA)	16.2	ng/l		0.44	1.78	1
MW-1	PFOA	8/8/2019 6:01	8/9/2019 8:26	INITIAL	Perfluorohexanoic acid (PFHxA)	25.9	ng/l		0.52	1.78	1
MW-1	PFOA	8/8/2019 6:01	8/9/2019 8:26	INITIAL	Perfluoroheptanoic acid (PFHpA)	29	ng/l		0.22	1.78	1
MW-1	PFOA	8/8/2019 6:01	8/9/2019 8:26	INITIAL	Perfluorooctanoic acid (PFOA)	181	ng/l		0.76	1.78	1
MW-1	PFOA	8/8/2019 6:01	8/9/2019 8:26	INITIAL	Perfluorononanoic acid (PFNA)	17.5	ng/l		0.24	1.78	1
MW-1	PFOA	8/8/2019 6:01	8/9/2019 8:26	INITIAL	Perfluorodecanoic acid (PFDA)	17.1	ng/l		0.28	1.78	1
MW-1	PFOA	8/8/2019 6:01	8/9/2019 8:26	INITIAL	Perfluoroundecanoic acid (PFUnA)	1.45	ng/l	J	0.98	1.78	1
MW-1	PFOA	8/8/2019 6:01	8/9/2019 8:26	INITIAL	Perfluorododecanoic acid (PFDoA)			U	0.49	1.78	1
MW-1	PFOA	8/8/2019 6:01	8/9/2019 8:26	INITIAL	Perfluorotridecanoic acid (PFTriA)			U	1.16	1.78	1
MW-1	PFOA	8/8/2019 6:01	8/9/2019 8:26	INITIAL	Perfluorotetradecanoic acid (PFTeA)			U	0.26	1.78	1
MW-1	PFOA	8/8/2019 6:01	8/9/2019 8:26	INITIAL	Perfluorobutanesulfonic acid (PFBS)	11.8	ng/l		0.18	1.78	1
MW-1	PFOA	8/8/2019 6:01	8/9/2019 8:26	INITIAL	Perfluorohexanesulfonic acid (PFHxS)	49.3	ng/l	В	0.15	1.78	1
MW-1	PFOA	8/8/2019 6:01	8/9/2019 8:26	INITIAL	Perfluoroheptanesulfonic Acid (PFHpS)	27.1	ng/l		0.17	1.78	1
MW-1	PFOA	8/8/2019 6:01	8/9/2019 8:26	INITIAL	Perfluorodecanesulfonic acid (PFDS)			U	0.29	1.78	1
MW-1	PFOA	8/8/2019 6:01	8/9/2019 8:26	INITIAL	Perfluorooctanesulfonamide (FOSA)	18.9	ng/l	В	0.31	1.78	1
MW-1	PFOA	8/8/2019 6:01	8/9/2019 8:26	INITIAL	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	322	ng/l		2.77	17.8	1
MW-1	PFOA	8/8/2019 6:01	8/9/2019 8:26	INITIAL	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	22.9	ng/l		1.7	17.8	1
MW-1	PFOA	8/8/2019 6:01	8/9/2019 8:26	INITIAL	6:2 FTS			U	1.78	17.8	1
MW-1	PFOA	8/8/2019 6:01	8/9/2019 8:26	INITIAL	8:2 FTS			U	1.78	17.8	1
MW-1	SW8270D SIM	8/6/2019 8:33	8/8/2019 1:20	INITIAL	1,4-Dioxane			UF1*	0.17	0.17	1

U = Indicates the analyte was analyzed for but not detected.

F1 = MS and/or MSD Recovery is outside acceptance limits.

* = RPD of the LCS and LCSD exceeds the control limits

B = Compound was found in the blank and sample.

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

D = Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.

SAMPLE		PREPARED	ANALYZED		ANALYTE	RESULT	UNIT	QUALIFIER	MDL	RL	DIL FAC
MW-3	PFOA	8/8/2019 6:01	8/9/2019 9:14	INITIAL	Perfluorobutanoic acid (PFBA)	5.77	ng/l		0.3	1.72	1
MW-3	PFOA	8/8/2019 6:01	8/9/2019 9:14	INITIAL	Perfluoropentanoic acid (PFPeA)	7.36	ng/l		0.42	1.72	1
MW-3	PFOA	8/8/2019 6:01	8/9/2019 9:14	INITIAL	Perfluorohexanoic acid (PFHxA)	10.3	ng/l		0.5	1.72	1
MW-3	PFOA	8/8/2019 6:01	8/9/2019 9:14	INITIAL	Perfluoroheptanoic acid (PFHpA)	7.2	ng/l		0.22	1.72	1
MW-3	PFOA	8/8/2019 6:01	8/9/2019 9:14	INITIAL	Perfluorooctanoic acid (PFOA)	40.3	ng/l		0.73	1.72	1
MW-3	PFOA	8/8/2019 6:01	8/9/2019 9:14	INITIAL	Perfluorononanoic acid (PFNA)	6.72	ng/l		0.23	1.72	1
MW-3	PFOA	8/8/2019 6:01	8/9/2019 9:14	INITIAL	Perfluorodecanoic acid (PFDA)	2.94	ng/l		0.27	1.72	1
MW-3	PFOA	8/8/2019 6:01	8/9/2019 9:14	INITIAL	Perfluoroundecanoic acid (PFUnA)			U	0.95	1.72	1
MW-3	PFOA	8/8/2019 6:01	8/9/2019 9:14	INITIAL	Perfluorododecanoic acid (PFDoA)			U	0.47	1.72	1
MW-3	PFOA	8/8/2019 6:01	8/9/2019 9:14	INITIAL	Perfluorotridecanoic acid (PFTriA)			U	1.12	1.72	1
MW-3	PFOA	8/8/2019 6:01	8/9/2019 9:14	INITIAL	Perfluorotetradecanoic acid (PFTeA)	0.35	ng/l	J	0.25	1.72	1
MW-3	PFOA	8/8/2019 6:01	8/9/2019 9:14	INITIAL	Perfluorobutanesulfonic acid (PFBS)	8.11	ng/l		0.17	1.72	1
MW-3	PFOA	8/8/2019 6:01	8/9/2019 9:14	INITIAL	Perfluorohexanesulfonic acid (PFHxS)	8.88	ng/l	В	0.15	1.72	1
MW-3	PFOA	8/8/2019 6:01	8/9/2019 9:14	INITIAL	Perfluoroheptanesulfonic Acid (PFHpS)	2.51	ng/l		0.16	1.72	1
MW-3	PFOA	8/8/2019 6:01	8/9/2019 9:14	INITIAL	Perfluorooctanesulfonic acid (PFOS)	235	ng/l	В	0.47	1.72	1
MW-3	PFOA	8/8/2019 6:01	8/9/2019 9:14	INITIAL	Perfluorodecanesulfonic acid (PFDS)			U	0.28	1.72	1
MW-3	PFOA	8/8/2019 6:01	8/9/2019 9:14	INITIAL	Perfluorooctanesulfonamide (FOSA)	0.35	ng/l	JB	0.3	1.72	1
MW-3	PFOA	8/8/2019 6:01	8/9/2019 9:14	INITIAL	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)			U	2.67	17.2	1
MW-3	PFOA	8/8/2019 6:01	8/9/2019 9:14	INITIAL	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)			U	1.64	17.2	1
MW-3	PFOA	8/8/2019 6:01	8/9/2019 9:14	INITIAL	6:2 FTS			U	1.72	17.2	1
MW-3	PFOA	8/8/2019 6:01	8/9/2019 9:14	INITIAL	8:2 FTS			U	1.72	17.2	1
MW-3	SW8270D SIM	8/6/2019 8:33	8/7/2019 9:05	INITIAL	1,4-Dioxane			U*	0.17	0.17	1

U = Indicates the analyte was analyzed for but not detected.

F1 = MS and/or MSD Recovery is outside acceptance limits.

* = RPD of the LCS and LCSD exceeds the control limits

B = Compound was found in the blank and sample.

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

D = Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
SAMPLE		PREPARED	ANALYZED		ANALYTE	RESULT	UNIT	QUALIFIER	MDL	RL	DIL FAC
MW-6A	PFOA	8/8/2019 6:01	8/10/2019 21:47	Dilution1	Perfluorooctanesulfonic acid (PFOS)	2380	ng/l	D	4.81	17.8	10
MW-6A	PFOA	8/8/2019 6:01	8/9/2019 9:22	INITIAL	Perfluorobutanoic acid (PFBA)	4.83	ng/l		0.31	1.78	1
MW-6A	PFOA	8/8/2019 6:01	8/9/2019 9:22	INITIAL	Perfluoropentanoic acid (PFPeA)	13.2	ng/l		0.44	1.78	1
MW-6A	PFOA	8/8/2019 6:01	8/9/2019 9:22	INITIAL	Perfluorohexanoic acid (PFHxA)	18.8	ng/l		0.52	1.78	1
MW-6A	PFOA	8/8/2019 6:01	8/9/2019 9:22	INITIAL	Perfluoroheptanoic acid (PFHpA)	21.2	ng/l		0.22	1.78	1
MW-6A	PFOA	8/8/2019 6:01	8/9/2019 9:22	INITIAL	Perfluorooctanoic acid (PFOA)	121	ng/l		0.76	1.78	1
MW-6A	PFOA	8/8/2019 6:01	8/9/2019 9:22	INITIAL	Perfluorononanoic acid (PFNA)	12.1	ng/l		0.24	1.78	1
MW-6A	PFOA	8/8/2019 6:01	8/9/2019 9:22	INITIAL	Perfluorodecanoic acid (PFDA)	6.97	ng/l		0.28	1.78	1
MW-6A	PFOA	8/8/2019 6:01	8/9/2019 9:22	INITIAL	Perfluoroundecanoic acid (PFUnA)	1.96	ng/l		0.98	1.78	1
MW-6A	PFOA	8/8/2019 6:01	8/9/2019 9:22	INITIAL	Perfluorododecanoic acid (PFDoA)	1.22	ng/l	J	0.49	1.78	1
MW-6A	PFOA	8/8/2019 6:01	8/9/2019 9:22	INITIAL	Perfluorotridecanoic acid (PFTriA)			U	1.16	1.78	1
MW-6A	PFOA	8/8/2019 6:01	8/9/2019 9:22	INITIAL	Perfluorotetradecanoic acid (PFTeA)	0.42	ng/l	J	0.26	1.78	1
MW-6A	PFOA	8/8/2019 6:01	8/9/2019 9:22	INITIAL	Perfluorobutanesulfonic acid (PFBS)	14.2	ng/l		0.18	1.78	1
MW-6A	PFOA	8/8/2019 6:01	8/9/2019 9:22	INITIAL	Perfluorohexanesulfonic acid (PFHxS)	111	ng/l	В	0.15	1.78	1
MW-6A	PFOA	8/8/2019 6:01	8/9/2019 9:22	INITIAL	Perfluoroheptanesulfonic Acid (PFHpS)	55.4	ng/l		0.17	1.78	1
MW-6A	PFOA	8/8/2019 6:01	8/9/2019 9:22	INITIAL	Perfluorodecanesulfonic acid (PFDS)			U	0.28	1.78	1
MW-6A	PFOA	8/8/2019 6:01	8/9/2019 9:22	INITIAL	Perfluorooctanesulfonamide (FOSA)	139	ng/l	В	0.31	1.78	1
MW-6A	PFOA	8/8/2019 6:01	8/9/2019 9:22	INITIAL	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	229	ng/l		2.76	17.8	1
MW-6A	PFOA	8/8/2019 6:01	8/9/2019 9:22	INITIAL	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	3.07	ng/l	J	1.69	17.8	1
MW-6A	PFOA	8/8/2019 6:01	8/9/2019 9:22	INITIAL	6:2 FTS			U	1.78	17.8	1
MW-6A	PFOA	8/8/2019 6:01	8/9/2019 9:22	INITIAL	8:2 FTS			U	1.78	17.8	1
MW-6A	SW8270D SIM	8/6/2019 8:33	8/7/2019 9:26	INITIAL	1,4-Dioxane			U*	0.17	0.17	1

U = Indicates the analyte was analyzed for but not detected.

F1 = MS and/or MSD Recovery is outside acceptance limits.

* = RPD of the LCS and LCSD exceeds the control limits

B = Compound was found in the blank and sample.

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

D = Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.

Table-4

Tabulated Soil Vapor Data

	Lab	Sample ID:	L1934510-01	L1934510-02	L1934510-03	L1934510-04	L1934510-05	L1934510-06
	San	ple Name:	SV-1	SV-2	SV-3	SV-4	SV-5	OA-1
	Sa	mple Date:	31-JUL-19	31-JUL-19	31-JUL-19	31-JUL-19	31-JUL-19	31-JUL-19
Volatile Organics in Air	CasNum	Units	-	-	-	-	-	-
1.2-Dichlorobenzene	95-50-1	ug/m3	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
2-Butanone	78-93-3	ug/m3	40.1	14.8	15.2	12.6	4.57	1.47 U
1,2,4-Trimethylbenzene	95-63-6	ug/m3	5.51	10	8.65	5.7	4.9	0.983 U
4-Ethyltoluene	622-96-8	ug/m3	1.16	2.06	1.95	1.3	0.983 U	0.983 U
Heptane	142-82-5	ug/m3	65.2	8.61	5.45	3.41	2.22	0.82 U
1,2-Dichloro-1,1,2,2-tetrafluoroethane	76-14-2	ug/m3	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
1,1-Dichloroethane	75-34-3	ug/m3	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,4-Dichlorobenzene	106-46-7	ug/m3	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Chlorobenzene	108-90-7	ug/m3	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U
Styrene	100-42-5	ug/m3	1.22	1.55	3.23	1.81	1.15	0.852 U
trans-1,2-Dichloroethene	156-60-5	ug/m3	19.1	1.31	0.9	0.793 U	0.793 U	0.793 U
1,4-Dioxane	123-91-1	ug/m3	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
1,3-Butadiene	106-99-0	ug/m3	11.3 0.626 U	0.575	4.89	4.62	1.27	0.442 U
1.2 Dishloroothone (total)	540 50 0	ug/m3	0.626 U 72.2	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U
1.2-Dichloropropane	78-87-5	ug/m3	0.924 U	0.924 U	0.924 U	0.793 U	0.793 U	0.793 U
Trichlorofluoromethane	75-69-4	ug/m3	3 14	6.07	7 25	3 53	3.96	1.65
Vinyl chloride	75-01-4	ug/m3	2.24	0.511 U	1.6	0 511 U	0.511 U	0.511 U
tert-Butyl Alcohol	75-65-0	ug/m3	13.1	60.9	24.5	25.5	19.1	1.52 U
Bromomethane	74-83-9	ug/m3	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	ug/m3	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U
1,2,4-Trichlorobenzene	120-82-1	ug/m3	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U
Hexachlorobutadiene	87-68-3	ug/m3	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U
Chloromethane	74-87-3	ug/m3	1.2	1.57	1.02	0.812	0.803	1.14
Dibromochloromethane	124-48-1	ug/m3	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Cyclohexane	110-82-7	ug/m3	38.9	3.92	2.01	2.63	3.89	0.688 U
Benzyl chloride	100-44-7	ug/m3	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U
cis-1,3-Dichloropropene	10061-01-5	ug/m3	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
trans-1,3-Dichloropropene	10061-02-6	ug/m3	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
letrachloroethene	127-18-4	ug/m3	15.9	21.8	325	0.702 U	29 0.702 U	108 0.702 U
1.2.5 Trimothylbonzono	108 67 8	ug/m3	54.3	0.20	2.26	0.793 0	0.795 U	0.795 U
Fthyl Acetate	108-07-8	ug/m3	1.30	2.09	2.50 1.8 U	1.44 1.8 U	1.55	0.985 U
1 1 1-Trichloroethane	71-55-6	ug/m3	1.8 U	1.09 U	1.80	1.8 U	1.80	1.8 U
1.3-Dichlorobenzene	541-73-1	ug/m3	1.0 U	1.0 U	1.0 U	1.0 U	1.2 U	1.2 U
Benzene	71-43-2	ug/m3	38.3	13.7	7.99	9.36	4.34	0.891
Dichlorodifluoromethane	75-71-8	ug/m3	0.989 U	0.989 U	0.989 U	1.01	1.18	1.81
Methylene chloride	75-09-2	ug/m3	1.74 U	19.5	1.74 U	1.74 U	1.85	1.74 U
2-Hexanone	591-78-6	ug/m3	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
4-Methyl-2-pentanone	108-10-1	ug/m3	2.05 U	15.8	6.97	3.98	4.96	2.05 U
Carbon disulfide	75-15-0	ug/m3	56.7	5.85	7.63	7.63	6.98	0.623 U
Trichloroethene	79-01-6	ug/m3	27.6	32.6	59.7	1.07 U	1.07 U	1.07 U
o-Xylene	95-47-6	ug/m3	4.52	7.43	7.56	5.21	3.67	0.869 U
Tetrahydroturan	109-99-9	ug/m3	1.47 U	4.48	1.99	1.69	1.56	1.47 U
Vinyl bromide	593-60-2	ug/m3	0.874 U	0.8/4 U	0.8/4 U	0.8/4 U	0.8/4 U	0.8/4 U
1,1,2,2-Tetrachioroethane	107.06.2	ug/m3	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U
Reproduction Brown for the second sec	75 25 2	ug/m3	2.07.11	2.07.11	2.07 U	2.07.11	2.07.11	2.07.11
Chloroethane	75-00-3	ug/m3	1 69	0.528 11	0.528 U	0 528 U	0 528 U	0.528 U
Ethylbenzene	100-41-4	ug/m3	3.36	6.25	5.73	4.04	2.91	0.869 U
Toluene	108-88-3	ug/m3	26.6	260	27.9	20.6	15.6	2.75
Acetone	67-64-1	ug/m3	242	108	65.3	100	34.7	13.7
1,2-Dibromoethane	106-93-4	ug/m3	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U
iso-Propyl Alcohol	67-63-0	ug/m3	3.64	80.6	1.23 U	2.45	1.23 U	1.23 U
p/m-Xylene	179601-23-1	ug/m3	10.8	19.1	19.8	13	9.47	1.74 U
Bromodichloromethane	75-27-4	ug/m3	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U
Carbon tetrachloride	56-23-5	ug/m3	1.26 U	1.26 U	1.26 U	1.26 U	1.26 U	1.26 U
1,1-Dichloroethene	75-35-4	ug/m3	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
Ethyl Alcohol	64-17-5	ug/m3	9.61	61.6	11.9	14.2	11	9.42 U
Methyl tert butyl ether	1634-04-4	ug/m3	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
1,3-Dichloropropene, Total	542-75-6	ug/m3	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
1,1,2-1 Incinoroemane Chloroform	19-00-3 67 66 2	ug/m3	1.09 U	1.09 U	1.09 U	0.077 11	0.077 11	0.077 U
Xvlene (Total)	1330_20.7	ug/115	4.90	26.5	12.1 27 A	18.2	13.1	0.977 U
n-Hexane	110-54-3	ug/1115 110/m3	225	20.3	27. 4 7.10	5.64	3.04	2 44
2.2.4-Trimethylpentane	540-84-1	ug/m3	0.934 U	12	3.59	3.26	2.62	0.934 U
, , ,, .penane	2.0.071		-	-	-	-	-	-
	1		-	-	-	-	-	-
	1		-	-	-	-	-	-
	Ī			Ī			Ī	1
*Alpha Analytical Labs provides this	custom repo	orting		*Refer to the lab	oratory report in	Adobe Acrobat	(.PDF)	
format as a convenience to our clien		format to check	results or read a	ny associated pr	roject			
cannot be held liable for errors or on	nissions ass	ociated		narrative that m	ay be present. In	all cases, the si	gned,	
with the sample results.				hardcopy Alpha	Analytical Labs	aboratory report	is the	
	1			official documer	nt for reporting la	boratory results.		

APPENDICES

Appendix-A

Previous SVI Report

groundwater consultants and geologists 90 - B Knickerbocker Avenue Bohemia • New York • 11716

Phone: 631 • 589 • 6521 Fax: 631 • 589 • 6528

May 22, 2008

Mr. Mark Bufalini Project Manager New York State Department of Environmental Conservation Division of Environmental Remediation 625 Broadway, 11th Floor Albany, New York 12233-7015

Re: American Drive-In Cleaners of Hewlett, Inc. 1345 Peninsula Boulevard Hewlett, New York

Dear Mr. Bufalini:

Berninger Environmental, Inc. (BEI) is providing a summary report on behalf of our client, American Drive-In Cleaners of Hewlett, Inc., for soil vapor samples collected from the rear of three homes located adjacent to the dry cleaners on January 29, 2008.

Background

Berninger Environmental, Inc., under the direction of the New York State Department of Health (NYSDOH), and the NYSDEC obtained these soil gas samples to help assess whether the environmental contamination from operations at the dry cleaner (American Drive-In Cleaners) located at 1345 Peninsula Boulevard, Hewlett, New York has the potential to affect indoor air quality at three homes, located at 1310 Waverly Avenue (SG-1A), 1314 Waverly Avenue (SG-2A) and 1316 Waverly Avenue (SG-3A), Hewlett, New York.

Soil Vapor Migration Study

The three soil gas sampling locations (see attached figure) were installed to collect soil vapor samples in accordance with the February 2005 Draft New York State Department of Health(NYSDOH) "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" protocols (revised 2006).

A hand operated direct drilling system (Geoprobe) was used to implant soil vapor sampling probes to the depths representative of potential vapor movement relative to the adjacent residence. However, at these properties groundwater is very shallow, less than four feet below grade surface (bgs), necessitating a completion of less than 5 feet bgs. Specifically, the Geoprobe equipped with Post-Run Tubing System (PRT), an expendable tip and teflon tubing was used to collect discrete soil gas samples from below grade at a depth of 2.5-3 ft bgs.

After setting up a sealed penetration using hydraulic cement around the top of the PRT, the area around the soil gas sample collection point was encompassed by a plastic container for the introduction of a helium tracer gas. Helium was introduced via a tubing penetration into the plastic container as a tracer gas in order to quantify that no circumvention of air is occurring.

Subsequent to the introduction of helium tracer gas, the annular space was purged a minimum of one to three volumes of soil gas using a personal sampling pump. During purging and sampling, the flow rate did not exceed 0.2 liters per minute. A pre-set regulator and dedicated summa cannister were used to procure the soil

gas sample. Again, the regulator used had a flow rate less than 0.2 liters per minute. Sufficient volume was collected to achieve the detection limits required to evaluate the data relative to the guidelines issued by the NYSDOH.

As specified by the NYSDEC, an ambient air sample was also collected. The ambient outdoor air sample was collected at a representative breathing height (3 to 5 feet above grade), at an upwind location - see attached figure. The ambient air regulator was set to obtain approximately four hours of sampling time; the vacuum readings required that the testing be stopped prior to four hours to ensure that a negative pressure remained. Direct field readings were performed for helium tracer to ensure that the soil gas vapor sample was not compromised due to exterior air circumvention. A sample is considered to be valid if <20 percent tracer gas is present.

After the required pressure changes were observed on the canister gauge, the canister was sealed, and packaged for transport. The field sampling team maintained the following sample log sheet which summarized the following:

- a. sample identification,
- b. date and time of sample collection,
- c. sampling depth,
- d. identity of samplers,
- e. sampling methods and devices,
- f. purge volumes,
- g. volume of soil vapor extracted,
- h. the type of canisters used, the vacuum before and after samples collected,
- I. apparent moisture content (dry, moist, saturated, etc.) of the sampling zone, and
- j. chain of custody protocols and records used to track samples from sampling point to analysis.

After collection, the sampling location was also field screened with a PID and a helium detector to provide real time data; this information was recorded in the field book. PID results were both less than 0.2 parts per million (ppm) response units and no helium above instrument detection limits were recorded.

Upon completion of the day's sample collection, the summa canisters were transported under strict chain-ofcustody to an NYSDOH-ELAP certified laboratory H2M Laboratories, Inc. located in Melville, New York for VOC analysis by EPA Method TO-15 methodology. The shallow borings associated with soil vapor testing were abandoned by bentonite grout to grade.

Laboratory Analysis

The three samples were analyzed by H2M Laboratories, Inc., an NYSDOH ELAP-Certified laboratory. Summary data sheets are included in as an appendix of this report. An independent third party validation was performed on this data - see attached appendices. As the State of New York does not have any standards or criteria for concentrations of volatile chemicals in soil gas, the results of the laboratory analysis of the three soil gas samples were compared to the *Background Indoor Air Levels of Volatile Organic Compounds in Homes Sampled by the New York State Department of Health, 1989-1996* published by the NYSDOH Bureau of Toxic Substance Assessment in 1997 and included in the NYSDOH *Guidance for Evaluating Soil Vapor Intrusion in the State of New York*.

As indicated in Table 1, numerous VOCs were detected in each of the three soil gas samples. Of the VOCs present, particular focus was on the concentrations of Tetrachoroethene (PCE), a common dry-cleaning chemical and its typical breakdown products such as Trichloroethene (TCE).

PCE and TCE typically detected at concentrations of less than 100 mcg./cu.m and 5 mcg./cu.m, respectively, in soil gas exterior to a home, generally do not result in significant indoor air impacts. Furthermore, based upon NYSDOH recent long term studies on these types of compounds in indoor air, PCE and TCE can be typically detected at concentrations of 2.9 mcg./cu.m and 0.48 mcg./cu.m, respectively, or less in buildings not known to be affected by a chemical spill or other significant sources of these chemicals.

Based upon this comparison, at this time, no PCE or TCE concentrations were present in subsurface soil gas samples that exceeded any specifically identified NYSDOH requirements (matrix tables) at any of the three residences. Letters were developed for distribution to the three residences with an overview of NYSDOH Fact Sheets on these compounds that summarized these facts.

Summary and Conclusions

As required by the NYSDEC and NYSDOH, BEI has obtained subsurface soil gas data at the three closest adjoining residences in accordance with sampling guidelines for same. Based upon testing of these three properties, no PCE or TCE concentrations were identified present in subsurface soil gas samples that exceeded any specifically identified NYSDOH requirement for monitoring, mitigation, etc. at any of the three residences. Letters were developed for distribution to the three residences with an overview of NYSDOH Fact Sheets on these compounds that summarized these facts.

Please feel free to contact me if you have any questions.

Sincerely, Berninger Environmental, Inc.

Walter Berninger President/Consultant

enc.

groundwater consultants and geologists 90 - B Knickerbocker Avenue Bohemia • New York • 11716

Phone: 631 • 589 • 6521 Fax: 631 • 589 • 6528

Mr. Adam Hirsch 1310 Waverly Street Hewlett, New York August 07, 2008

Re: Soil Vapor Sampling Results - Rear Yard 1310 Waverly Street, Hewlett, New York

Dear Mr. Hirsch:

Enclosed are the laboratory test results for the soil vapor samples collected from the rear of your home (SG-1A) on January 29, 2008. Berninger Environmental, Inc., under the direction of the New York State Department of Health (NYSDOH), obtained this soil gas sample to help assess whether the environmental contamination from operations at the dry cleaner (American Drive-In Cleaners) located at 1345 Peninsula Boulevard, Hewlett, New York has the potential to affect indoor air quality in your home. The soil gas sample was tested for Tetrachoroethene (PCE), a common dry cleaning chemical and its typical breakdown products such as Trichloroethene (TCE).

Soil Gas Sampling Results

In air, concentrations of PCE and TCE are measured in units of micrograms per cubic meter of air. These units are abbreviated as "mcg/cu.m". PCE was detected at a concentration of 25.2J mcg./cu.m at a location selected within your backyard, between your residence and the dry cleaners. PCE was also detected in the outdoor air at 1.42J mcg./cu.m during this air sampling event. TCE was detected at a concentration of 0.27 mcg./cu.m at the soil gas sampling location. TCE was not detected in the outdoor air during this air sampling event.

According to NYSDOH studies, PCE and TCE typically detected at concentrations of less than 100 mcg./cu.m and 5 mcg./cu.m, respectively, in soil gas exterior to a home, generally do not result in significant indoor air impacts. Therefore, at this time, no specific requirements have been established with respect to your residence, other than possible future monitoring. Furthermore, based upon NYSDOH recent long term studies on these types of compounds in indoor air, PCE and TCE can be typically detected at concentrations of 2.9 mcg./cu.m and 0.48 mcg./cu.m, respectively, or less in buildings not known to be affected by a chemical spill or other significant sources of these chemicals.

Enclosed is an NYSDOH fact sheet entitled "Tetrachloroethene (PCE) in Indoor and Outdoor Air dated May 2003" which provides information about the NYSDOH guideline. Enclosed also is the NYSDOH fact sheet entitled "Trichloroethene in Indoor and Outdoor Air dated February 2005" which provides information about the NYSDOH guidelines. As the fact sheets explain, the guidelines are not a line between levels that cause health effects and those that do not. In addition, it is based on the assumption that people are continuously exposed to PCE or TCE in air all day, every day, for as long as a life time, which, is not likely the case for the typical occupancy of a residence.

If you have any health-related questions, please contact Ms. Katherine Comford, Public Health Specialist II of the New York State Department of Health (NYSDOH) at 1-518-402-7850. If you have any questions relating to the environmental investigation of the American Drive-In Cleaners site, please contact Mr. Mark Bufalini of the New York State Department of Environmental Conservation (NYSDEC) at 1-518-402-7850.

Sincerely, Berninger Environmental, Inc.

Walter Berninger President/Consultant enc.

groundwater consultants and geologists 90 - B Knickerbocker Avenue Bohemia • New York • 11716

Phone: 631 • 589 • 6521 Fax: 631 • 589 • 6528

Mr. Ed Surillo 1314 Waverly Street Hewlett, New York August 07, 2008

Re: Soil Vapor Sampling Results - Rear Yard 1314 Waverly Street, Hewlett, New York

Dear Mr. Surillo:

Enclosed are the laboratory test results for the soil vapor samples collected from the rear of your home (SG-2A) on January 29, 2008. Berninger Environmental, Inc., under the direction of the New York State Department of Health (NYSDOH), obtained this soil gas sample to help assess whether the environmental contamination from operations at the dry cleaner (American Drive-In Cleaners) located at 1345 Peninsula Boulevard, Hewlett, New York has the potential to affect indoor air quality in your home. The soil gas sample was tested for Tetrachoroethene (PCE), a common dry cleaning chemical and its typical breakdown products such as Trichloroethene (TCE).

Soil Gas Sampling Results

In air, concentrations of PCE and TCE are measured in units of micrograms per cubic meter of air. These units are abbreviated as "mcg/cu.m". PCE was detected at a concentration of 3.32J mcg./cu.m at a location selected within your backyard, between your residence and the dry cleaners. PCE was also detected in the outdoor air at 1.42J mcg./cu.m during this air sampling event. TCE was not detected at the soil gas sampling location. TCE was also not detected in the outdoor air during this air sampling event.

According to NYSDOH studies, PCE and TCE typically detected at concentrations of less than 100 mcg./cu.m and 5 mcg./cu.m, respectively, in soil gas exterior to a home, generally do not result in significant indoor air impacts. Therefore, at this time, no specific requirements have been established with respect to your residence, other than possible future monitoring. Furthermore, based upon NYSDOH recent long term studies on these types of compounds in indoor air, PCE and TCE can be typically detected at concentrations of 2.9 mcg./cu.m and 0.48 mcg./cu.m, respectively, or less in buildings not known to be affected by a chemical spill or other significant sources of these chemicals.

Enclosed is an NYSDOH fact sheet entitled "Tetrachloroethene (PCE) in Indoor and Outdoor Air dated May 2003" which provides information about the NYSDOH guideline. Enclosed also is the NYSDOH fact sheet entitled "Trichloroethene in Indoor and Outdoor Air dated February 2005" which provides information about the NYSDOH guidelines. As the fact sheets explain, the guidelines are not a line between levels that cause health effects and those that do not. In addition, it is based on the assumption that people are continuously exposed to PCE or TCE in air all day, every day, for as long as a life time, which, is not likely the case for the typical occupancy of a residence.

If you have any health-related questions, please contact Ms. Katherine Comford, Public Health Specialist II of the New York State Department of Health (NYSDOH) at 1-518-402-7850. If you have any questions relating to the environmental investigation of the American Drive-In Cleaners site, please contact Mr. Mark Bufalini of the New York State Department of Environmental Conservation (NYSDEC) at 1-518-402-7850.

Sincerely, Berninger Environmental, Inc.

Walter Berninger President/Consultant enc.

groundwater consultants and geologists 90 - B Knickerbocker Avenue Bohemia • New York • 11716 Mr. Nora Hsu 1316 Waverly Street Hewlett, New York

August 07, 2008

Re: Soil Vapor Sampling Results - Rear Yard 1316 Waverly Street, Hewlett, New York

Dear Mr. Hsu:

Enclosed are the laboratory test results for the soil vapor samples collected from the rear of your home (SG-3A) on January 29, 2008. Berninger Environmental, Inc., under the direction of the New York State Department of Health (NYSDOH), obtained this soil gas sample to help assess whether the environmental contamination from operations at the dry cleaner (American Drive-In Cleaners) located at 1345 Peninsula Boulevard, Hewlett, New York has the potential to affect indoor air quality in your home. The soil gas sample was tested for Tetrachoroethene (PCE), a common dry cleaning chemical and its typical breakdown products such as Trichloroethene (TCE).

Soil Gas Sampling Results

In air, concentrations of PCE and TCE are measured in units of micrograms per cubic meter of air. These units are abbreviated as "mcg/cu.m". PCE was detected at a concentration of 2.03J mcg./cu.m at a location selected within your backyard, between your residence and the dry cleaners. PCE was also detected in the outdoor air at 1.42J mcg./cu.m during this air sampling event. TCE was detected at a concentration of 1.50 mcg./cu.m at the soil gas sampling location. TCE was not detected in the outdoor air during this air sampling event.

According to NYSDOH studies, PCE and TCE typically detected at concentrations of less than 100 mcg./cu.m and 5 mcg./cu.m, respectively, in soil gas exterior to a home, generally do not result in significant indoor air impacts. Therefore, at this time, no specific requirements have been established with respect to your residence, other than possible future monitoring. Furthermore, based upon NYSDOH recent long term studies on these types of compounds in indoor air, PCE and TCE can be typically detected at concentrations of 2.9 mcg./cu.m and 0.48 mcg./cu.m, respectively, or less in buildings not known to be affected by a chemical spill or other significant sources of these chemicals.

Enclosed is an NYSDOH fact sheet entitled "Tetrachloroethene (PCE) in Indoor and Outdoor Air dated May 2003" which provides information about the NYSDOH guideline. Enclosed also is the NYSDOH fact sheet entitled "Trichloroethene in Indoor and Outdoor Air dated February 2005" which provides information about the NYSDOH guidelines. As the fact sheets explain, the guidelines are not a line between levels that cause health effects and those that do not. In addition, it is based on the assumption that people are continuously exposed to PCE or TCE in air all day, every day, for as long as a life time, which, is not likely the case for the typical occupancy of a residence.

If you have any health-related questions, please contact Ms. Katherine Comford, Public Health Specialist II of the New York State Department of Health (NYSDOH) at 1-518-402-7850. If you have any questions relating to the environmental investigation of the American Drive-In Cleaners site, please contact Mr. Mark Bufalini of the New York State Department of Environmental Conservation (NYSDEC) at 1-518-402-7850.

Sincerely, *Berninger Environmental, Inc.*

Walter Berninger President/Consultant enc.



Appendix-B NCDOH Data 3/19/02

3/19/02

1 11 . A.

CIZDCE

Sample Date Sample Contion Sample Matrix Detections Concentration

MASO2 Rear of Bldg (# 1) Water

7.4 Bi ...

TCE 1.4 PCE 7.3 Wates C-1.2 DCE 0.7

TCE 2:5 PCE 16 Soll (2-5* depth) c-1.2 DCE 7400 PCE 4000

3/19/02 Below Evaporator Soil (2-8" depth): PCE 390 Discharge (# 2)

Discharge (# 2)

3/19/02 Front of Building (# 3) Water Nona

3/19/02 Soil (2.5° depth) PCE 480

Sample location numbers refer to allached site diagram. All results are in ppb Appendix-C

Validated Groundwater Data

DATA USABILITY SUMMARY REPORT – DUSR DATA VALIDATION SUMMARY

ORGANIC ANALYSES VOLATILES BY GC/MS 1,4-DIOXANE BY SIM GC/MS ISOTOPE DILUTION ORGANIC ANALYSIS POLYFLUORINATED ALKYL SUBSTANCES (21 ANALYTES) BY LIQUID CHROMATOGRAPHY/TANDEM MASS SPECTROMETRY (LC/MS/MS) BY MODIFIED EPA METHOD 537

For Groundwater Samples Collected July 31, 2019 and August 15, 2019 From 1345 Peninsula Boulevard, Hewlett, New York American Drive-In Cleaners Project #11391 Collected by WRS d.b.a. Berninger Environmental.

SAMPLE DELIVERY GROUP NUMBERs: 460-188226-1 (1,4-Dioxane and PFAS) BY EUROFINS TESTAMERICA EDISON - NJ (ELAP #11452) BY EUROFINS TESTAMERICA, SACRAMENTO -CA (ELAP #11666) 1908001 and 1908134 (Volatiles) BY AMERICAN ANALYTICAL (ELAP #11418)

SUBMITTED TO:

Mr. Justin Halpin WRS d.b.a. Berninger Environmental 17 Old Dock Road Yaphank, NY 11980

four a Berger

October 04, 2019

PREPARED BY:

Lori A. Beyer/President L.A.B. Validation Corp. 14 West Point Drive East Northport, NY 11731 American Drive-In Cleaners; 1345 Peninsula Boulevard, Hewlett, New York. Data Validation Summary (DUSR): July/August 2019 Groundwater Sampling Events; - Volatiles, 1,4-Dioxane and PFAS.

Table of Contents:

1.0

_	Introduction
	Data Qualifier Definitions
	Sample Receipt
	Volatile Organics by GC/MS SW846 Method 82600

- 1.1 Holding Time
- 1.2 System Monitoring Compound (Surrogate) Recovery
- 1.3 Matrix Spikes (MS), Matrix Spike Duplicates (MSD)
- 1.4 Laboratory Control Sample/Blank Spikes
- 1.5 Blank Contamination
- 1.6 GC/MS Instrument Performance Check (Tuning)
- 1.7 Initial and Continuing Calibrations
- 1.8 Internal Standards
- 1.9 Field Duplicates
- 1.10 Target Compound List Identification
- 1.11 Compound Quantification and Reported Detection Limits
- 1.12 Overall System Performance

2.0 1,4-Dioxane by GC/MS SW846 Method 8270D (SIM)

- 2.1 Holding Time
- 2.2 System Monitoring Compound (Surrogate) Recovery
- 2.3 Matrix Spikes (MS), Matrix Spike Duplicates (MSD)
- 2.4 Laboratory Control Sample/Blank Spikes
- 2.5 Blank Contamination
- 2.6 GC/MS Instrument Performance Check (Tuning)
- 2.7 Initial and Continuing Calibrations
- 2.8 Internal Standards
- 2.9 Field Duplicates
- 2.10 Target Compound List Identification
- 2.11 Compound Quantification and Reported Detection Limits
- 2.12 Overall System Performance\\
- 3.0 PFAS by LC/MS/MS EPA Modified Method 537
 - 3.1 Holding Time
 - 3.2 Surrogate Recovery
 - 3.3 Matrix Spikes (MS), Matrix Spike Duplicates (MSD)
 - 3.4 Laboratory Control Sample
 - 3.5 Method Blanks
 - 3.6 Initial and Continuing Calibrations
 - 3.7 Internal Standards
 - 3.8 Field Duplicates
 - 3.9 Target Compound List Identification
 - 3.10 Compound Quantification and Reported Detection Limits
 - 3.11 Overall System Performance

APPENDICES:

- A. Chain of Custody Documents and Sample Receipt Checklists
- B. Case Narratives
- C. Data Summary Form Is with Qualifications

Introduction:

A validation was performed on groundwater samples and the associated quality control (MS/MSD/Field Duplicate/Field Blanks/Trip Blanks) for organic analysis for samples collected under chain of custody documentation by WRS d.b.a. Berninger Environmental and submitted to American Analytical and Eurofins TestAmerica Edison for subsequent analysis. Samples for EPA Method 537 were sent from Eurofins Edison to Eurofins Sacramento. This report contains the laboratory and validation results for the field samples itemized below with corresponding required analysis.

The samples were analyzed by American Analytical (Volatiles), Eurofins TestAmerica Edison (1,4-Dioxane) and Eurofins TestAmerica Sacramento (PFAS), utilizing SW846 and EPA Methods and submitted under NYSDEC ASP Category B equivalent deliverable requirements for the associated analytical methodologies employed. The analytical testing and data review for groundwater samples consisted of Volatile Organics, 1,4-Dioxane Semivolatile Organics and the twenty-one (21) target analytes in EPA Method 537 for PFAS. The data was evaluated in accordance with EPA Region II National Functional Guidelines for Organic Data Review and EPA Region II SOPs for 8260, 8270 and in conjunction with the analytical methodologies for which the samples were analyzed, where applicable and relevant.

Sample ID	Lab ID	Analysis	Date
			Collected/Received
MW-1	1908001-001	Volatiles by SW846 Methods 5030C/8260C	7/31/19, 8/01/19
[Plus, MS/MSD]			
MW-2	1908001-002	Volatiles by SW846 Methods 5030C/8260C	7/31/19, 8/01/19
MW-3	1908001-003	Volatiles by SW846 Methods 5030C/8260C	7/31/19, 8/01/19
MW-6A	1908001-004	Volatiles by SW846 Methods 5030C/8260C	7/31/19, 8/01/19
MW-7	1908001-005	Volatiles by SW846 Methods 5030C/8260C	7/31/19, 8/01/19
MW-8	1908001-006	Volatiles by SW846 Methods 5030C/8260C	7/31/19, 8/01/19
MW-N	1908001-007	Volatiles by SW846 Methods 5030C/8260C	7/31/19, 8/01/19
Trip Blank	1908001-008	Volatiles by SW846 Methods 5030C/8260C	7/31/19, 8/01/19
Field Blank	1908001-009	Volatiles by SW846 Methods 5030C/8260C	7/31/19, 8/01/19
GW-4 @ 5-9'	1908134-001	Volatiles by SW846 Methods 5030C/8260C	8/15/2019
GW-4 @ 15-19'	1908134-002	Volatiles by SW846 Methods 5030C/8260C	8/15/2019
GW-4 @ 26-30'	1908134-003	Volatiles by SW846 Methods 5030C/8260C	8/15/2019
GW-5 @ 5-9'	1908134-004	Volatiles by SW846 Methods 5030C/8260C	8/15/2019
GW-5 @ 15-19'	1908134-005	Volatiles by SW846 Methods 5030C/8260C	8/15/2019
GW-5 @ 26-30'	1908134-006	Volatiles by SW846 Methods 5030C/8260C	8/15/2019
GW-6 @ 5-9'	1908134-007	Volatiles by SW846 Methods 5030C/8260C	8/15/2019
[Plus, MS/MSD]			
GW-6 @ 15-19'	1908134-008	Volatiles by SW846 Methods 5030C/8260C	8/15/2019
GW-6 @ 26-30'	1908134-009	Volatiles by SW846 Methods 5030C/8260C	8/15/2019
Field Blank	1908134-010	Volatiles by SW846 Methods 5030C/8260C	8/15/2019
Trip Blank	1908134-011	Volatiles by SW846 Methods 5030C/8260C	8/15/2019
MW-1	460-188226-1	1,4-Dioxane by 8270D SIM,	7/31/19, 8/02/19
[Plus, MS/MSD]		21 PFAS Compounds by EPA Method 537	
MW-1DUP	460-188226-2	1,4-Dioxane by 8270D SIM,	7/31/19, 8/02/19
		21 PFAS Compounds by EPA Method 537	
MW-3	460-188226-3	1,4-Dioxane by 8270D SIM,	7/31/19, 8/02/19
		21 PFAS Compounds by EPA Method 537	
MW-6A	460-188226-4	1,4-Dioxane by 8270D SIM,	7/31/19, 8/02/19
		21 PFAS Compounds by EPA Method 537	
Field Blanks (F.B.)	460-188226-5	1,4-Dioxane by 8270D SIM,	7/31/19, 8/02/19
		21 PFAS Compounds by EPA Method 537	

(516) 523-7891; email LABValidation@aol.com

Data Qualifier Definitions:

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

U - The analyte was analyzed for but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R - The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate quantity.

J+ - The result is an estimated quantity, but the result may be biased high. (Equis qualified, JK)

J- - The result is an estimated quantity, but the result may be biased low. (Equis qualified, JL)

D - Analyte concentration is from diluted analysis.

Sample Receipt:

The Chain of Custody documents indicates that the samples were received via laboratory courier upon completion of the sampling events. Sample login notes were generated. The cooler temperature for sample receipts was recorded upon receipt and determined to be acceptable (< 6 degrees C). The actual temperatures are recorded on the chain of custody documents and sample receipt checklists provided in Appendix A of this report.

No problems and/or discrepancies were noted, consequently, the integrity of the samples has been assumed to be good.

The data summary Form I's included in Appendix C include all usable (qualified) and unusable (rejected) results for the samples identified above. The Form I's summarize the detailed narrative section of the report. All data validation qualifications have been reported on the Form I's for ease of review and verification.

NOTE:

L.A.B. Validation Corp. believes it is appropriate to note that the data validation criteria utilized for data evaluation is different than the method requirements utilized by the laboratory. Qualified data does not necessarily mean that the laboratory was non-compliant in the analysis that was performed.

1.0 Volatile Organics by GC/MS SW846 Method 8260C

The following method criteria were reviewed: holding times, SMCs, MS, MSD, LCS, Laboratory Spiked Blanks, Field Duplicates, Method Blanks, Tunes, Calibrations, Internal Standards, Target Component Identification, Quantitation, Reported Quantitation Limits and Overall System Performance. The Volatile results are valid and useable except for non-detects for 2-Chloroethyl Vinyl Ether in all samples due to non-recoverable MS/MSD/LCS values as a result of acid preservation and non-detects for Acrolein and Ethanol in all samples due to low calibration responses as noted within the following text:

1.1 Holding Time

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J". The non-detects (sample quantitation limits) are required to be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

Samples pertaining to these SDGs were analyzed within the Method required holding times as well as the technical holding times for data validation. No data validation qualifiers were required based upon holding time. Groundwater, Field and Trip Blank analysis and reanalysis was performed within holding times of 14 days for HCL preserved vials.

1.2 System Monitoring Compound (Surrogate) Recovery

All samples are spiked with surrogate compounds prior to sample analysis to evaluate overall laboratory performance and efficiency of the analytical technique. If the measure of surrogate concentrations is outside contract specification, qualifications are required to be applied to associated samples and analytes.

Surrogate recoveries (%R) for Dibromofluoromethane, Toluene-d8 and 4-Bromofluorobenzene were found to be within acceptable limits for surrogate compounds for all analyses pertaining to these SDGs.

1.3 Matrix Spikes (MS)/ Matrix Spike Duplicates (MSD)

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices and to demonstrate acceptable compound recovery by the laboratory at the time of sample analysis. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data.

MS/MSD was submitted on MW-1 by Berninger. The laboratory also selected GW-6 @ 5-9' for MS/MSD analysis. 2-Chloroethyl-vinyl ether was not recoverable due to acid preservation. Non-detects in all samples have been rejected, "R."

MW-1 MS/MSD – High recovery was obtained for 1,1,2-Trichloro-1,2,2trifluoroethane (136%/134%), 1,4-Dioxane (135%/128%), Acetone (138%), Acrylonitrile (121%), Dichlorodifluoromethane (158%/154%), Ethanol (152%) and Methylcyclohexane (140%/136%). These compounds were not found in the parent sample. High recovery does not support any potential loss of detection and/or result bias. No qualifiers were applied based on these outliers. Recovery values for cis-1,2-Dichloroethene, Tetrachloroethene, trans-=1,2-dichloroethene and Trichloroethene were also obtained due to high parent concentration relative to spike amount. No qualifiers are required. Data was not qualified for RPD outliers. Outliers for RPD were determined to be reasonable per the methodology.

GW-6 5-9' MS/MSD yielded high Acetone (148%/206%),Ethanol (162%/177%) and t-Butyl Alcohol (143%/154%). No qualifiers are required.

Batch MS/MSD data was also submitted in the data packages. Data was not qualified based on samples collected from a different site.

The National Functional Guidelines and EPA Region 2 SOPs state that "No qualifications to the data is necessary based on MS data <u>alone</u>."

1.4 Laboratory Control Sample/Blank Spikes

The LCS data for laboratory control samples (LCS) are generated to provide information on the accuracy of the analytical method and on the laboratory performance.

Acceptable LCS/Blank Spike and LCS/LCS Duplicate was analyzed. In cases where high recovery was obtained and associated sample results were non-detect, no qualifications to the data is required since high recovery does not support any potential loss of detection and/or result bias. Acceptable recovery values RPD were observed.

Based on professional judgment, no qualifications were made for RPD outliers.

1.5 Blank Contamination

Quality assurance (QA) blanks; i.e. method, trip and field blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field blanks measure cross-contamination of samples during field operations.

The following table was utilized to qualify target analyte results due to contamination. The largest value from all the associated blanks is required to be utilized:

Blank Type	Blank Result	Sample Result	Action for Samples
Method, Storage, field,	Detects	Not Detected	No qualification required
Trip, Instrument	<crql*< td=""><td><crql*< td=""><td>Report CRQL value with a U</td></crql*<></td></crql*<>	<crql*< td=""><td>Report CRQL value with a U</td></crql*<>	Report CRQL value with a U
		> = CRQL* and $< 2x$ the	No qualification required
		CRQL**	
	>CRQL*	= CRQL*</td <td>Report CRQL value with a U</td>	Report CRQL value with a U
		>/=CRQI.* and = blank</td <td>Report blank value for sample concentration</td>	Report blank value for sample concentration
		concentration	with a U
		>/= CRQL* and > blank	No qualification required
		concentration	
	=CRQL*	= CRQL*</td <td>Report CRQL value with a U</td>	Report CRQL value with a U
		>CRQL*	No qualification required
	Gross Contamination**	Detects	Report blank value for sample concentration
			with a U

*2x the CRQL for methylene chloride, 2-butanone and acetone. **Qualifications based on instrument blank results affect only the sample analyzed immediately after the sample that has target compounds that exceed the calibration range or non-target compounds that exceed 100 ug/L.

Below is a summary of the compounds in the sample and the associated qualifications that have been applied:

A) Method Blank Contamination:

The laboratory reported detections of Methylene Chloride, Acetone, Toluene and 1,2,3-Trichlorobenzene have been negated, "U" due to laboratory contamination in all samples.

B) Field Blank Contamination:

Ethylbenzene (0.33 ug/L), m,p-Xylene (1.2 ug/L), o-Xylene (0.50 ug/L) and Acetone were detected in the Field Blank from 7/31/19. Acetone was detected above the reporting limit and therefore reanalyzed. Reanalysis confirms the Acetone detection (which was negated, "U" in all field samples. the laboratory reported concentrations in MW-1 were negated, "U" for Ethylbenzene and Xylenes.

C) Trip Blank Contamination: Trip Blanks did not have any detections after negated method blank contaminants.

1.6 GC/MS Instrument Performance Check

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The Tuning standard for volatile organics is Bromofluorobenzene (BFB).

Instrument performance was generated within acceptable limits and frequency for Bromofluorobenzene (BFB) for all analyses conducted for these SDGs.

1.7 Initial and Continuing Calibrations

Satisfactory instrument calibration is established to ensure that the instrument can produce acceptable quantitative data. An initial calibration demonstrates that the instrument can produce acceptable performance at the beginning of an experimental sequence.

The continuing calibration checks document that the instrument is giving satisfactory daily performance. Initial calibration verifications were acceptable.

A) Response Factor GC/MS:

The response factor measures the instrument's response to specific chemical compounds. The response factor for all compounds must be >/= 0.05 in both initial and continuing calibrations. A value <0.05 indicates a serious detection and quantitation problem (poor sensitivity). Analytes detected in the sample will be qualified as estimated, "J". All non-detects for that compound in the corresponding samples will be rejected, "R". Method 8260C allows for a minimum response factor of 0.1 for Acetone and 2-Butanone. Validation criteria allows response factor to be /=>0.01 for poor responders (Acetone, MEK, Carbon Disulfide, Chloroethane, Chloromethane, Cyclohexane, 1,2-Dibromoethane, Dichlorodifluoromethane, cis-1,2-Dichloroethene, 1,2-Dichloropropane, 1,2-Dibromo-3-chloropropane, Isopropylbenzene, Methyl Acetate, Methylene Chloride, Methylcyclohexane, MTBE, trans-1,2-Dichloroethene, 4-Methyl-2-Pentanone, 2-Hexanone, Trichlorofluoromethane, 1,1,2-Trichloro-1,2,2-Trifluoroethane.

All the response factors for the target analytes reported were found to be within acceptable limits (>/=0.05) and (>/= 0.01 for poor responders) and minimum response criteria in Table 4 of Method 8260C, for the initial and continuing calibrations for all reported analytes except for Ethanol and Acrolein. Non-detects in all samples have been rejected, "R."

B) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentrations. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be <20% and %D must be <20%. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ". If %RSD and %D grossly exceed QC criteria, non-detect data may be qualified, "R", unusable. Additionally, in cases where the %RSD is >20% and eliminating either the high or the low point of the curve does not restore the %RSD to less than or equal to 20% then positive results are qualified, "J". In cases where removal of either the low or high point restores the linearity, then only low or high-level results will be qualified, "J" in the portion of the curve where non-linearity exists. ICV must meet 30% criteria. Poor responders must be

*Method 8260C allows for several analytes to be outside requirements due to the large number of compounds.

Initial Calibrations: The initial calibrations provided and the %RSD were within acceptable limits (20%) and (40% for poor responders) for all reported compounds.

Continuing Calibrations: The continuing calibrations provided and the %D was within acceptable limits (20%) and (40% for poor responders) for all reported compounds except for Acetone (39.6%) and p-Ethyl toluene (39.0%) in the calibration associated with 7/31/19 samples and Acrylonitrile (85.5%) in the calibration associated with 8/15/19 samples. Results have been qualified, "J/UJ."

1.8 Internal Standards

Internal Standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-50% to +100%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than +/-30 seconds from the associated continuing calibration standard. If the area count is outside the (-50% to +100%) range of the associated standard, all the positive results for compounds quantitated using that IS are qualified as estimated, "J", and all non-detects as "UJ", or "R" if there is a severe loss of sensitivity.

If an internal standard retention time varies by more than 30 seconds, professional judgment will be used to determine either partial or total rejection of the data for that sample fraction.

All samples were spiked with the internal standards Fluorobenzene, Chlorobenzene-d5 and 1,4-Dichlorobenzene-d4 prior to sample analysis. The area responses and retention time of each internal standard met QC criteria in all samples associated with this SDG.

1.9 Field Duplicates

Field duplicate samples are collected and analyzed as an indication of overall precision. These results are expected to have more variability than laboratory duplicate samples. Acceptable RPD is 50%. Field Duplicates were not required for these sampling events for Volatile Organics.

1.10 Target Compound List Identification

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within =/- 0.06RT units of the standard compound and have an ion spectrum which has a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound.

GC/MS spectra met the qualitative criteria for identification. All retention times were within required specifications.

1.11 Compound Quantification and Reported Detection Limits

GC/MS quantitative analysis is acceptable. Correct internal standards per SW846 and response factors were used to calculate final concentrations.

As required, the laboratory reported "J" values between the reporting limits (RL) and Method Detection Limits (MDLs). This is consistent with common laboratory practices and a requirement of the National Environmental Laboratory Approval Program (NELAP). Groundwater samples were initially analyzed undiluted at 5mls. Based on chlorinated analytes over the instruments' calibration range, secondary and tertiary dilutions were required. Results are not reported for initial analysis and diluted values qualified, "D as required. Dilutions are reported on the Form I's.

1.12 Overall System Performance

Good resolution and chromatographic performance were observed.

2.0 1,4-Dioxane by GCMS SW846 Method 8270D (SIM).

The following method criteria were reviewed: holding times, Surrogates, MS, MSD, LCS, Blanks, Tunes, Calibrations, Internal Standards, Target Component Identification, Quantitation, Reported Quantitation Limits and overall system performance. The 1,4-Dioxane results are valid and usable except for non-detects in MW-1 and MW-1 DUP due to non-recoverable MS/MSD values as noted within the following text:

2.1 Holding Time

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J". The non-detects (sample quantitation limits) are required to be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

Samples were extracted and analyzed within the method required holding times and the technical holding times (7 days from collection for groundwater/field blanks) and 40 days from extraction to analysis) required for data validation.

2.2 Surrogate Recovery

All samples are spiked with surrogate compounds prior to sample preparation/extraction to evaluate overall laboratory performance and efficiency of the analytical technique. Additionally, the sample itself may produce effects due to such factors as interferences and high concentrations of analytes. Since the effects of the sample matrix are frequently outside the control of the laboratory and may present relatively unique problems, the evaluation of the data is dependent upon reextraction and/or reanalysis to confirm/negate laboratory error or matrix related problems. Discussion of surrogate recoveries that fell outside (above/below) QC guidelines is itemized below:

Samples were spiked with Nitrobenzene-d5 surrogate standard at the sample extraction portion of analysis for 1,4-Dioxane. Recovery values were acceptable.

2.3 Matrix Spikes (MS)/Matrix Spike Duplicates (MSD)

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices.

MS/MSD data was performed on MW-1. 1,4-Dioxane was not recoverable in either the MS or MSD. Spike concentration of 0.8 ug/L was not recoverable. Non-detects in the parent sample and field duplicate (MW-1 DUP) must be considered unreliable and have been rejected, "R."

2.4 Laboratory Control Sample/Laboratory Control Duplicates

The LCS data for laboratory control samples (LCS) are generated to provide information on the accuracy of the analytical method and on the laboratory performance.

LCS/LCS Duplicate yielded acceptable recovery values for 1,4 Dioxane. RPD fell outside acceptance range. Data was not qualified based on RPD values.

2.5 Method Blanks

Quality assurance (QA) blanks; i.e. method, trip and field blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field blanks measure cross-contamination of samples during field operations.

The following table was utilized to qualify target analyte results due to contamination. The largest value from all the associated blanks is required to be utilized:

For:	Flag Sample Result with a "U" when:	Report CRQL & Qualify "U" when:	No Qualification is Needed	
Phthalates (common	Sample Conc. is >CRQL, but	Sample Conc. Is <crql and<="" td=""><td>Sample Conc. is >CRQL and</td></crql>	Sample Conc. is >CRQL and	
laboratory contaminants)	=5x blank value</td <td><!--=5x blank value</td--><td colspan="2">>5x blank value</td></td>	=5x blank value</td <td colspan="2">>5x blank value</td>	>5x blank value	
Other Contaminants	Sample Conc. is	Sample Conc. Is <crql and<="" td=""><td>Sample Conc. is >CRQL and</td></crql>	Sample Conc. is >CRQL and	
	value	V-1X UTANK VALUE	>1x blank value	

Below is a summary of the compounds in the sample and the associated qualification that have been applied:

- A) Method Blank Contamination:
 1,4-Dioxane was not detected in the method blank associated with sample analysis.
- B) Field Blank Contamination:
 1,4-Dioxane was not detected in the Field Blank.

2.6 GC/MS Instrument Performance Check

Tuning and performance criteria are established to ensure adequate mass resolution proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The Tuning standard for semivolatile organics is decafluorotriphenylphosphine (DFTPP).

Instrument performance was generated within acceptable limits and frequency (12 hours) for decafluorotriphenylphosphine (DFTPP) for all analyses.

2.7 Initial and Continuing Calibrations

Satisfactory instrument calibration is established to ensure that the instrument can produce acceptable quantitative data. An initial calibration demonstrates that the instrument can give acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

A) Response Factor GC/MS:

The response factor measures the instrument's response to specific chemical compounds. The response factor for all compounds must be >/= 0.05 in both initial and continuing calibrations. A value <0.05 indicates a serious detection and quantitation problem (poor sensitivity). Analytes detected in the sample will be qualified as estimated, "J". All non-detects for that compound in the corresponding samples will be rejected, "R".

1,4-Dioxane response factors reported were found to be within acceptable limits (>/=0.05), for the initial (average RRF) and continuing calibrations.

B) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentrations. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be <20% and %D must be <20%. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ". If %RSD and %D grossly exceed QC criteria, nondetect data may be qualified, "R", unusable. Additionally, in cases where the %RSD is >30% and eliminating either the high or the low point of the curve does not restore the %RSD to less than or equal to 20% then positive results are qualified, "J". In cases where removal of either the low or high point restores the linearity. then only low or high-level results will be qualified, "J" in the portion of the curve where non-linearity exists. Due to the large number of analytes in this method, it is expected for some analytes to fall outside acceptance criteria and the calibration is still considered valid.

Acceptable Initial Calibration Verifications were performed.

Initial Calibrations: The initial calibrations provided and the %RSD were within acceptable limits (20%) for 1,4-Dioxane.

Continuing Calibrations: The continuing calibrations provided and the %D was within acceptable limits (20%) for 1,4-Dioxane with the exceptions noted below:

CCAL CBNAMS4 8/6/19 – 1,4-Dioxane – 23.8% "UJ" non-detects in MW-3 and MW-6A.

2.8 Internal Standards

Internal Standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-

50% to +100%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than +/-30 seconds from the associated continuing calibration standard. If the area count is outside the (-50% to +100%) range of the associated standard, all the positive results for compounds quantitated using that IS are qualified as estimated, "J", and all non-detects as "UJ", or "R" if there is a severe loss of sensitivity.

If an internal standard retention time varies by more than 30 seconds, professional judgment will be used to determine either partial or total rejection of the data for that sample fraction.

Samples were spiked with the internal standard DCBd4 and Naphthalene-d8 for SIM analysis. The area responses and retention time of this internal standard met QC criteria in all samples associated with these samples.

2.9 Field Duplicates

Field duplicate samples are collected and analyzed as an indication of overall precision. These results are expected to have more variability than laboratory duplicate samples. An acceptable RPD is 50% for soil samples.

1,4-Dioxane was not detected in MW-1 DUP. Non-detects must be considered unreliable and have been rejected, "R" due to MW-1 MS/MSD data.

2.10 Target Compound List Identification

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within =/- 0.06RT units of the standard compound and have an ion spectrum which has a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound.

Mass spectra meet criteria for 1,4-Dioxane.

(516) 523-7891; email LABValidation@aol.com

2.11 Compound Quantification and Reported Detection Limits

GC/MS quantitative analysis is acceptable. Correct internal standards, response factors were used to calculate final concentrations.

As required, the laboratory reported "J" values between the reporting limits (RL) and Method Detection Limits (MDLs). This is consistent with common laboratory practices and a requirement of the National Environmental Laboratory Approval Program (NELAP). Samples were analyzed undiluted. 1,4-Dioxane was not detected in any of the groundwater samples.

2.12 Overall System Performance

Acceptable system performance was maintained throughout the analysis.

3.0 PFAS Analytes by LC/MS/MS EPA Modified Method 537

The following method criteria were reviewed: holding times, Surrogates, MS, MSD, LCS/LCS Duplicates, Method Blanks, Calibrations, Internal Standards, Field Duplicate, Target Component Identification, Quantitation, Reported Quantitation Limits and Overall System Performance. The PFAS results are valid and useable as noted within the following text:

3.1 Holding Time

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J". The non-detects (sample quantitation limits) are required to be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

Samples were extracted and performed within the method required holding times of 14 days from collection to extraction and 28 days from extraction to analysis for sample extracts. No data validation qualifiers were required based upon holding time.

3.2 System Monitoring Compound (Surrogate) Recovery

All samples are spiked with surrogate compounds prior to sample analysis to evaluate overall laboratory performance and efficiency of the analytical technique. If the measure of surrogate concentrations is outside contract specification, qualifications are required to be applied to associated samples and analytes.

Surrogate recoveries (%R) were found to be within acceptable limits for all analyses.

3.3 Matrix Spikes (MS)/ Matrix Spike Duplicates (MSD)

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices and to demonstrate acceptable compound recovery by the laboratory at the time of sample analysis. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data.

MS/MSD analysis on MW-1 yielded acceptable recovery and RPD values for all spiked analytes where the parent concentration was less than 4x the spike level. Spike recoveries are not applicable where sample concentration exceed 4x the spike level.

The National Functional Guidelines and EPA Region 2 SOPs state that "No qualifications to the data is necessary based on MS data alone."

3.4 Laboratory Control Sample

The LCS data for laboratory control samples (LCS) are generated to provide information on the accuracy of the analytical method and on the laboratory performance.

Acceptable LCS was analyzed. Recovery values were acceptable for all spiked compounds.

3.5 Blank Contamination

Quality assurance (QA) blanks; i.e. method, trip and field blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field blanks measure cross-contamination of samples during field operations.

The following table was utilized to qualify target analyte results due to contamination. The largest value from all the associated blanks is required to be utilized:

Blank Type	Blank Result	Sample Result	Action for Samples	
Method, Storage, field,	Detects	Not Detected	No qualification required	
Instrument	<crql< td=""><td><crql< td=""><td>Report CRQL value with a U</td></crql<></td></crql<>	<crql< td=""><td>Report CRQL value with a U</td></crql<>	Report CRQL value with a U	
		>/= CRQL and <2x the CRQL	No qualification required	
	>CRQL	= CRQL</td <td>Report CRQL value with a U</td>	Report CRQL value with a U	
		<pre>>/=CRQL and <!--= blank concentration</pre--></pre>	Report blank value for sample concentration with a U	
		>/= CRQL and > blank concentration	No qualification required	
	=CRQL	≔ CRQL</td <td colspan="2">Report CRQL value with a U</td>	Report CRQL value with a U	
		>CRQL	No qualification required	
	Gross Contamination	Detects	Report blank value for sample concentration with a U	

Below is a summary of the compounds in the blanks and the associated qualifications that have been applied:

A) Method Blank Contamination:

PFHxS was detected at 0.413 ng/L, PFOA 2.574 ng/L and FOSA at 2.482 ng/L in the extraction blank associated with sample analysis. FOSA was negated, "U" in MW-3. Remaining sample detections must be considered real.

B) Field Blank Contamination:

PFHxS was detected in the Field Blank at 0.28 ng/L. No additional qualifiers are required based on this low detection.

3.6 Initial and Continuing Calibrations

Satisfactory instrument calibration is established to ensure that the instrument can produce acceptable quantitative data. An initial calibration demonstrates that the instrument can produce acceptable performance at the beginning of an experimental sequence.

The continuing calibration checks document that the instrument is giving satisfactory daily performance.

Initial and continuing calibration verifications were acceptable.

3.7 Internal Standards

Internal Standards (IS) performance criteria ensure that the LC/MS/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 1 (-50% to +50%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than +/-60 seconds from the associated continuing calibration standard. If the area count is outside the (-50% to +50%) range of the associated standard, all the positive results for compounds quantitated using that IS are qualified as estimated, "J", and all non-detects as "UJ", or "R" if there is a severe loss of sensitivity.

If an internal standard retention time varies by more than 60 seconds, professional judgment will be used to determine either partial or total rejection of the data for that sample fraction.

All samples were spiked with the internal standards 13C2-PFOA prior to sample analysis. The area responses and retention time of this internal standard met QC criteria except for diluted reanalysis of MW-1 and MW-6A due to complicated matrices. MW-1 MS/MSD exhibited similar response which confirms a sample matrix effect. High internal standard response indicates reported concentrations must be considered estimated, biased low, "J_."

3.8 Field Duplicates

Field duplicate samples are collected and analyzed as an indication of overall precision. These results are expected to have more variability than laboratory duplicate samples. Acceptable precision was observed for MW-1 and MW-1 DUP for all detected compounds.

3.9 Target Compound List Identification

TCL compounds are identified on the LC/MS/MS by using the analyte's relative retention time (RRT) obtained from known standards.

LC/MS/MS raw data met the qualitative criteria for identification. All retention times were within required specifications.

3.10 Compound Quantification and Reported Detection Limits

LC/MS/MS quantitative analysis is acceptable. Samples were extracted by solid phase extraction techniques. Correct internal standards per EPA Method 537 and response factors were used to calculate final concentrations.

As required, the laboratory reported "J" values between the reporting limits (RL) and Method Detection Limits (MDLs). This is consistent with common laboratory practices and a requirement of the National Environmental Laboratory Approval Program (NELAP). Samples were initially analyzed undiluted. MW-1, MW-1 DUP and MW-6A required secondary and tertiary dilutions due to analyte concentration over the instruments' calibration range. Results have been qualified, "D" where compound was obtained from diluted run. EPA Method 537 analysis was performed by Eurofins TestAmerica Sacramento. Results are reported in ng/L where (1 ng/L = 0.001 ug/L).

3.11 Overall System Performance Good resolution and chromatographic performance were observed.

Reviewer's Signature Loui G. Buy Date 10/4/19
Appendix A Chain of Custody Documents And Sample Receipt Checklists

CERTIFICATIONS NY ELAP - 11418 PA DEP - 68-00573 NJ DEP - NY050 CT DOH - PH-0205	ånsluticat Test / Information			5	2M)	21	2922	8											BLES Comments / Remarks	DOH Action Levers And	P Hazardous Waste	SPEC EQUIS Contention 2.10C	DATE 8/1/19 PRINTED NAME	DATE PRINTED NAME
STODY NY 11735 454-8027 It.com	Project Information	oject Name Arron Anice In	root Cleaners as i	AZ AND THINKING THIN IS AND A LAND	rejecta i Purchase Ordens Content	ampler's Name / Compare 11 / CHET	ampler's Signature	Sample Collection Sample Containers	Date Class / Total # Huo, Huo, Huo, Huo, Huo, Huo, Huo, Huo,	JAIRA CON K	1 1 3 X X	1 1 Bits 1 2 X	1 X Z 40	1 11:00 2 X	1 1 2 X	hr:00 2 4		V N V 2 X		MATRIX CODE ELIVERY NYCRR Part 375 - please circle = Liquid PC = Paint Chip Unres/ Comm/ Industrial/ Residential/	= Soil SL = Sludge NJ Soil Clean Up Criteria SC	= Oil SD = Solid CP 51 - Gas / Fuel TC	= Wipe M = Misc TOGS NY	We ampres change possession, win a signature, uare, and un We RECEIVED BY LAB (SIGNATURE)	ME RECEIVED BY LAB (SIGNATURE)
CHAIN OF CU ENDORATIONIES 56 Toledo Street, Farmingdale (T) 631-454-6100 (F) 631. www.american-analytics	Client Information	Company Name BFI	alter Dold Dock Pred.	City Vephank Noter 1980 C	Project Contact At Stin	Phone # (2) 589 (52) a	Ermail Thaloind WISCS. Com	Loaver Sample Information	(LAB USE ONLY) Client Sample ID Sample Matrix Code	1908001-001 MUN-11 ms/msy) G &L	004 MW- 2' 11 1	1 1 1 2-cim 800	OUY MW-CA	C-NUM DOU	006 MW-8.	007 MWN ~	00P Trip Planks	W Trill Barks (FB) & U		Candard Imer Business Jugyst SamPLE 17PE	5 Day RUSH C = Composite s	4 Day RUSH 2 Day RUSH B = Blank 0	Please contact laboration for rush service availability	RELINQUISHEDEN (SIGNTURE) DATE OF 11 0 PRINTED NOT	RELINQUISHED BY BIGNATURE) DATE DATE



ım Road srsey 08817 49-3900 Fax: (732) 549-3679	Page of	st s	V Other:	I AB LICE ON V	Project No:	188226	Sample Numbers	21	5.	4	\$	9					Itered (Yes/No)2		S.	je.		132). TAL - 0016 (0715)	
Phone: (732) 5 222	IS REQUEST	Sipe/Project Identification , HMRMan Drive-in Clears	State (Location of site): NJ: NJ: NY: Regulatory Program: NYS DEX	AEQUESTED (ENTER Y: BELOW TO INDICATE REQUEST									 1008	1. 3/1			Vater Metals F	d by Compared	d bý Company	d by Company	d by Company	Connecticut (PH-0200), Rhode Island (N M S
TestAmerica	THE LEADER IN ENVIRONMENTAL TESTING CHAIN OF CUSTODY / ANALYSIS	Name (tor report and invoice) (BEL) Samplers Name (Printed)	COMPANY RAY (dela DET) P. 6.# 29141 >)	Address i M M M Analysis Turnaround Have	City Vaphank Nate 1900 Rush Charges Authorized For	Phone (3) - SQ4 - CAT = 1 Week	Sample Identification Date Time Matrix Cont.	MW-1 (DUD MS/ MSd) 7/31/19 W/ 16 X X	XXH M I A I S-MW	MW-GA Y W Y X X	Field Blanks (F.B) - W 4 2 X	T.B X I W I X X			460-188226 Chain of Custory	Preservation Us $3 = HCI, 3 = H2O_4, 4 = HNO_3, 5 = NaOH Soli: 6 = Other 7 = Other Water$	Special Instructions ASP - CAT - B buliverables (NYS)	Relinquished by Company Hugs R/7/P 105 1)	Relinquispead by Company Company Bate / Time Received	Relinquished by U company U $2/U$ bate Time Received 3) $2/U$ $3/U$ $3/U$	Relinquished by Cômpany Date / Time Received 4) 4)	Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), (Massachusetts (M-NJ312), North Carolina (No. 578) 2 が して そう そう

Clien	t Name:	Berninger	oumpio	Log III	onee		Work Orde	er Number	1908001	
						W .				
Logg	ed by:	Lori Beyer		8/1/2019 9	9:00 AM	Pau	Beyer			
Com	pleted By:	Lori Beyer		8/1/2019 9	9:21 AM	Sou	Blyer			
Revie	ewed By:	Phyllis Masi		8/1/2019 12	2:00 AM	Ply.	llo MA	si		
С	hain of C	ustody						_		_
1.	Wore seal	s intact?				Ye	s x	No 🗌	Not Prese	ent L
2.	Is Chain o	f Custody complete?				Ye	s x	No 🗌	Not Prese	ent L
3.	How was	he sample delivered?				Ye	s x	No 🗌	Not Prese	ent L
Lo	og In						-			
4.	Coolers	are present?				Ye	es X	No 🗌	Not Prese	ent 🗌
5.	Was an a	attempt made to cool th	e samples?			Ye	es 🗴	No 🗌	1	
6.	Were all	samples received at a	temperature of >0° C t	to 6.0°C		Ye	es 🗴	No 🗌	1	
7.	Sample(s) in proper container(s)?			Ye	s x	No 🔲		
8	Sufficien	sample volume for ind	licated test(s)?			Ye	s x	Νο 🔲		
9.	Are sam	oles (except VOA and 0	ONG) properly preserve	ed?		Ye	s x	No 🗖		
10.	Was pres	servative added to bottl	es?			Ye	s 🗖	No X		
11	Is the he	adspace in the VOA via	ls less than 1/4 inch o	r 6 mm?		Υe	s X	No 🔲	Not Prese	ent 🔽
12.	Were any	, sample containers rec	eived broken?			Ye	s x	No 🗖		
13.	Does par (Note dis	perwork match bottle la crepancies on chain of	bels? custody)			Ye	es 🔀	No 🔲		
14.	Are matri	ces correctly identified	on Chain of Custody?			Ye	s x	No 🔲		
15.	Is it clear	what analyses were re	quested?			Υe	s x	No 🗖		
16.	Were all (If no, no	holding times able to be tify customer for author	e met? ization.)			Ye	s 🗴	No 🗌		
S	pecial Ha	andling (if applica	nble)							
17.	Was clier	nt notified of all discrepa	ancies with this order?			Ye	es 🗖	No 🗌	Not Prese	ent 🗴
Pe	erson Noti	fied:		[Date:					
Ву	Whom:			V	/ia 🔲	email	Phone	Fax	In Person	
Re	garding:									
Cli	ent Instru	ctions:								
18.	Additiona	l remarks:								
Co	oler Info	rmation								
ooler N	lo		Temp °C	Condition	Sea	I Intact	Seal	No S	Seal Date Sig	ined B

Good

No

Sample Log-In Check List

Client	t Name:	Berninger					Work Ord	er Number:	1908134
Logge	ed by:	Lori Beyer		8/15/2019	4:20 PM	You'r	Seyer		
Comp	oleted By:	Lori Beyer		8/15/2019	4:53 PM	Socif	Beyer		
Revie	ewed By:	Lori Beyer		8/15/2019	5:15 PM	You'l	Beyer		
Cl	hain of C	ustody						-	
1.	Were seal	s intact?				Ye	s 💾	No 📙	Not Present
2.	Is Chain o	f Custody complete?				Ye	s 🖂		Not Present
3.	How was f	the sample delivered?				Ye	s 🗶	No 🛄	Not Present
Lo	og In								
4.	Coolers	are present?				Ye	s 🗙	No 🗌	Not Present
5.	Was an a	attempt made to cool th	e samples?			Ye	s 🗙	No 🗌	NA 🗌
6.	Were all	samples received at a	temperature of >0° C	to 6.0°C		Ye	s X	No 🗌	NA 🗋
7	Sample(s	s) in proper container(s)?			Ye	x	No 🗖	
8.	Sufficien	t sample volume for ind	icated test(s)?			Ye	s 🛛	No 🗌	
9.	Are sam	oles (except VOA and (ONG) properly preserv	ved?		Ye	×	No 🗌	
10.	Was pres	servative added to bottl	es?			Ye		No 🗴	
11	is the he	adspace in the VOA via	Is less than 1/4 inch o	or 6 mm?		Ye	s x	No 🗌	Not Present
12.	Were any	y sample containers rec	ceived broken?			Yes	3 X	No 🗌	_
13.	Does par (Note dis	perwork match bottle la crepancies on chain of	bels? custody)			Yes	s X	No 🗌	
14.	Are matri	ices correctly identified	on Chain of Custody?			Yes	3 🗙	No 🗖	
15.	Is it clear	what analyses were re	quested?			Yes	s X	No 🔲	
16.	Were all (If no, no	holding times able to be tify customer for author	e met? ization.)			Yes	s X	No 🗖	
S	pecial Ha	andling (if applica	nble)				_	_	
17	Was clier	nt notified of all discrepa	ancies with this order?)		Yes		No 📙	Not Present 🗙
Pe	erson Noti	fied:			Date:				
By	Whom:				Via 🔲	email	Phone	Fax	In Person
Re	garding:								
Clie	ent Instru	ctions:							
18.	Additiona	l remarks:							
60	oler Info	rmation							
			T 90	0		1		L M	0
Juoier N	IU III		remp -C	Condition	Sea	intact	Sea		sear Date Signed By

Good

No

Client: WRS Environmental Services

Login Number: 188226 List Number: 1 Creator: Rivera, Kenneth

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Job Number: 460-188226-1

List Source: Eurofins TestAmerica, Edison

Client: WRS Environmental Services

Login Number: 188226 List Number: 2 Creator: Kintaudi, Pauline W

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.0c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Job Number: 460-188226-1

List Creation: 08/05/19 11:46 AM

List Source: Eurofins TestAmerica, Sacramento

Appendix B Case Narratives Client:WRS d.b.a Berninger EnvironmentalProject:American Drive-In Cleaners, 1345 Peninsula Blvd, Hewlett, NY

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846 and additional methods as detailed throughout the text of the report. All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives with exceptions notated in this Narrative discussion and/or the QC summary section of the report.

Volatile LCS are analyzed with preservatives - HCL/Methanol depending on level of analysis (high/low) similar to sample analysis. Outliers can be attributed to the presence of chemical preservatives. 2-Chloroethyl vinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Field Blank for VOA was determined to contain Acetone above the LOQ. Second vial was analyzed to confirm.

MW-1 was seleected for MS/MSD analysis.

In cases where target analyte concentrations were over the calibration range, a diluted reanalysis was performed.

The following parameters (if included in this report) are not offered by NY ELAP: VOA 8260 Soil; 1,2,4,5-Tetramethylbenzene, Chlorodifluoromethane, Diisopropyl ether, Ethanol, Freon-114, p-Diethylbenzene, p-Ethyltoluene, Limonene. VOA 8260 Liquid; 1,2,4,5-Tetramethylbenzene, Chlorodifluoromethane, Freon-114, p-Diethylbenzene, p-Ethyltoluene, Limonene. Pesticides 8081 Soil; DBCP. Herbicides 8151 Soil; 3,5-Dichlorobenzoic Acid, 4-Nitrophenol, Acifluorfen, Bentazon, Chloramben, DCPA, Picloram, SM 2540G Total Volatile Solids, Soil TKN, Soil Organic Nitrogen, Total Phosphorus in soil, Percent Moisture, pH in non-potable water and temperature at which pH is measured, SM 4500-SO3 B Sulfite in Liquid, Total Sulfur in Soil, Acid Soluble Chloride by ASTMC1152, Water Soluble Chloride by ASTMC1218, Chlorine Demand by SM 2350 B, Total Residual Chlorine in Liquid and Reactivity to Sulfide and Reactivity to Cyanide.

The test results meet the requirements of the NYSDOH and NELAC standards, except where noted. The information contained in this analytical report is the sole property of American Analytical Laboratories, LLC. or the client for which this report was issued. The results contained in this report are only representative of the samples received. The sample receipt checklist is included as part of this lab report. Conditions can vary at different times and at different sampling conditions. American Analytical is not responsible for the use or interpretation of the data included herein.

for 9/9/19

Client:WRS d.b.a Berninger EnvironmentalProject:American Drive-In Cleaners, 1345 Peninsula Blvd, Hewlett, NY

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846 and additional methods as detailed throughout the text of the report. All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives with exceptions notated in this Narrative discussion.

Volatile LCS are analyzed with preservatives - HCL/Methanol depending on level of analysis (high/low) similar to sample analysis. Outliers can be attributed to the presence of chemical preservatives. 2-Chloroethyl vinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

GW-6 @ 5-9' was seleected for MS/MSD analysis.

The following parameters (if included in this report) are not offered by NY ELAP: VOA 8260 Soil; 1,2,4,5-Tetramethylbenzene, Chlorodifluoromethane, Diisopropyl ether, Ethanol, Freon-114, p-Diethylbenzene, p-Ethyltoluene, Limonene. VOA 8260 Liquid; 1,2,4,5-Tetramethylbenzene, Chlorodifluoromethane, Freon-114, p-Diethylbenzene, p-Ethyltoluene, Limonene. Pesticides 8081 Soil; DBCP. Herbicides 8151 Soil; 3,5-Dichlorobenzoic Acid, 4-Nitrophenol, Acifluorfen, Bentazon, Chloramben, DCPA, Picloram, SM 2540G Total Volatile Solids, Soil TKN, Soil Organic Nitrogen, Total Phosphorus in soil, Percent Moisture, pH in non-potable water and temperature at which pH is measured, SM 4500-SO3 B Sulfite in Liquid, Total Sulfur in Soil, Acid Soluble Chloride by ASTMC1152, Water Soluble Chloride by ASTMC1218, Chlorine Demand by SM 2350 B, Total Residual Chlorine in Liquid and Reactivity to Sulfide and Reactivity to Cyanide.

The test results meet the requirements of the NYSDOH and NELAC standards, except where noted. The information contained in this analytical report is the sole property of American Analytical Laboratories, LLC. or the client for which this report was issued. The results contained in this report are only representative of the samples received. The sample receipt checklist is included as part of this lab report. Conditions can vary at different times and at different sampling conditions. American Analytical is not responsible for the use or interpretation of the data included herein.

CASE NARRATIVE

Client: WRS Environmental Services

Project: American Drive-in Cleaners

Report Number: 460-188226-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 08/02/2019; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.5 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

1,4 DIOXANE BY METHOD 8270 SIM

Samples MW-1 (460-188226-1), MW-1DUP (460-188226-2), MW-3 (460-188226-3), MW-6A (460-188226-4) and Field Blanks(F.B) (460-188226-5) were analyzed for 1,4 Dioxane by Method 8270 SIM in accordance with EPA SW-846 Method 8270D SIM DKQP. The samples were prepared on 08/06/2019 and analyzed on 08/07/2019 and 08/08/2019.

The continuing calibration verification (CCV) analyzed in batch 460-630106 was outside the method criteria for the following analyte(s): 1,4-Dioxane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch preparation batch 460-629899 and analytical batch 460-630104 recovered outside control limits for the following analytes: 1,4-Dioxane.

1,4-Dioxane exceeded the RPD limit for LCSD 460-629899/3-A. Refer to the QC report for details.

1,4-Dioxane failed the recovery criteria low for the MS/MSD of sample MW-1MS (460-188226-1) in batch 460-630393.

Refer to the QC report for details.

No other difficulties were encountered during the SVOC SIM DKQP analysis.

All other quality control parameters were within the acceptance limits.

PERFLUORINATED HYDROCARBONS (PFC)

Samples MW-1 (460-188226-1), MW-1DUP (460-188226-2), MW-3 (460-188226-3), MW-6A (460-188226-4) and Field Blanks(F.B) (460-188226-5) were analyzed for Perfluorinated Hydrocarbons (PFC) in accordance with PFC. The samples were prepared on 08/08/2019 and analyzed on 08/09/2019, 08/10/2019 and 08/13/2019.

Due to the high concentration of N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA), the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 320-313282 and analytical batch 320-313696 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

The method blank for preparation batch 320-313282 and analytical batch 320-313696 contained Perfluorooctanesulfonic acid (PFOS) and Perfluorooctanesulfonamide (FOSA) above the reporting limit (RL). Associated samples were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank or below the reporting limit for those analytes.

The matrix spike and matrix spike duplicate has detections which exceeded the calibration range as a result of fortification with standard solution. The parent samples was within the calibration range.

Results for samples MW-1 (460-188226-1), MW-1 (460-188226-1[MS]), MW-1 (460-188226-1[MSD]), MW-1DUP (460-188226-2) and MW-6A (460-188226-4) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits.

Results for samples MW-1 (460-188226-1), MW-1 (460-188226-1[MS]) and MW-1 (460-188226-1[MSD]) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits.

The following samples are slightly yellow and contain particulate at the bottom of the bottle prior to extraction: W-1 (460-188226-1), MW-1 (460-188226-1[MS]), MW-1 (460-188226-1[MSD]), MW-1DUP (460-188226-2), MW-3 (460-188226-3) and MW-6A (460-188226-4)

During the solid phase extraction process, the following samples have non-settable particulate which clogged the solid phase extraction column MW-1 (460-188226-1[MS]), MW-1 (460-188226-1[MSD]) and MW-1DUP (460-188226-2).

The following samples are slightly yellow after extraction: MW-1 (460-188226-1), MW-1 (460-188226-1[MS]), MW-1 (460-188226-2), MW-3 (460-188226-3) and MW-6A (460-188226-4)

Perfluorooctanesulfonamide (FOSA) and Perfluorooctanesulfonic acid (PFOS) were detected in method blank MB 320-313282/1-A at levels exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Perfluorohexanesulfonic acid (PFHxS) was detected in method blank MB 320-313282/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) and Perfluorooctanesulfonic acid (PFOS) failed the recovery criteria high for the MS of sample MW-1MS (460-188226-1) in batch 320-314779.

Perfluorooctanoic acid (PFOA) and Perfluorooctanesulfonic acid (PFOS) failed the recovery criteria low for the MSD of sample MW-1MSD (460-188226-1) in batch 320-314779. N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) failed the recovery criteria high.

Refer to the QC report for details.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Samples MW-1 (460-188226-1)[10X], MW-1 (460-188226-1)[20X], MW-1DUP (460-188226-2)[20X] and MW-6A (460-188226-4)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the Perfluorinated Hydrocarbons (PFC) analysis.

All other quality control parameters were within the acceptance limits.

Appendix C Data Summary Form I's with Qualifications

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

Tob Nome, American Ar			MW-1				
Laboratorie	<u>s, LLC.</u> con	itract:						
Lab Code: <u>AAL</u>	ClientID: <u>Be</u>	rninger SA	AS No.:	SDG No.: <u>1908001</u>				
Matrix:	<u>Liquid</u>		Lab Sample ID:	<u>1908001-001A</u>				
Sample wt/vol: <u>5mL</u> Lab File ID: <u>V1-0035.D</u>								
Level: (low/med)	LOW		Date Collected:	<u>7/31/2019 9:00 AM</u>				
% Moisture: <u>N/A</u>			Date Received:	<u>8/1/2019 9:00 AM</u>				
Extract Volume: <u>5000</u>	<u>(µl)</u>		Date Prepped:	<u>8/5/2019 8:18 AM</u>				
Seq Number: <u>808758</u>			Date Analyzed:	<u>8/6/2019 6:28 AM</u>				
GC Column: <u>V1 06/10/2019 SN#1629116</u> Dilution Factor: <u>1.00</u>								
Column ID: <u>0.18(mm)</u>	-	Ba	tch ID/ Ext Mthd:	<u>22885/PT</u>				

CAS NO.	COMPOUND	CONC.	UNITS: µg/	'L Q	DL	LOD	LOQ
630-20-6	1,1,1,2-Tetrachloroethane		0.25	U	0.25	0.25	2.0
71-55-6	1,1,1-Trichloroethane		0.25	U	0.25	0.25	2.0
79-34-5	1,1,2,2-Tetrachloroethane		0.25	U	0.25	0.25	2.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroet	hane	0.25	υ	0.25	0.25	2.0
79-00-5	1,1,2-Trichloroethane		0.25	U	0.25	0.25	2.0
75-34-3	1,1-Dichloroethane		0.25	U	0.25	0.25	2.0
75-35-4	1,1-Dichloroethene		15	1	0.25	0.25	2.0
563-58-6	1,1-Dichloropropene		0.25	U	0.25	0.25	2.0
87-61-6	1,2,3-Trichlorobenzene		0.25	U	0.25	0.25	2.0
96-18-4	1,2,3-Trichloropropane		0.25	U	0.25	0.25	2.0
95-93-2	1,2,4,5-Tetramethylbenzene		0.25	U	0.25	0.25	2.0
120-82-1	1,2,4-Trichlorobenzene		0.25	U	0.25	0.25	2.0
95-63-6	1,2,4-Trimethylbenzene		3.6		0.25	0.25	2.0
96-12-8	1,2-Dibromo-3-chloropropane		0.25	U	0.25	0.25	2.0
106-93-4	1,2-Dibromoethane		0.25	U	0.25	0.25	2.0
95-50-1	1,2-Dichlorobenzene		0.65	J	0.25	0.25	2.0
107-06-2	1,2-Dichloroethane		0.25	U	0.25	0.25	2.0
78-87-5	1,2-Dichloropropane		0.25	U	0.25	0.25	2.0
108-67-8	1,3,5-Trimethylbenzene		0.25	U	0.25	0.25	2.0
541-73-1	1,3-Dichlorobenzene		0.25	U	0.25	0.25	2.0
142-28-9	1,3-dichloropropane		0.25	U	0.25	0.25	2.0
106-46-7	1,4-Dichlorobenzene		0.25	U	0.25	0.25	2.0
123-91-1	1,4-Dioxane		0.25	U	0.25	0.25	1.0
594-20-7	2,2-Dichloropropane		0.25	U	0.25	0.25	2.0
78-93-3	2-Butanone		0.50	U	0.50	0.50	4.0
110-75-8	2-Chloroethyl vinyl ether		10	Ro	10	10	20
95-49-8	2-Chlorotoluene		0.25	υ	0.25	0.25	2.0
591-78-6	2-Hexanone		0.50	υ	0.50	0.50	4.0
67-63-0	2-Propanol		0.25	U	0.25	0.25	2.0
106-43-4	4-Chlorotoluene		0.25	υ	0.25	0.25	2.0
99-87-6	4-Isopropyltoluene		0.25	U	0.25	0.25	2.0
108-10-1	4-Methyl-2-pentanone		0.50	ប	0.50	0.50	4.0
67-64-1	Acetone		19	8	5.0	5.0	10

8019/9/19

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO

	a		MW-1
Lab Name: <u>American Analyti</u> <u>Laboratories</u> , LL	<u>cal</u> Contract: <u>C.</u>		
Lab Code: <u>AAL</u> Clie	entID: <u>Berninger</u>	SAS No.:	SDG No.: <u>1908001</u>
Matrix: Liqu	id	Lab Sample ID:	<u>1908001-001A</u>
Sample wt/vol: <u>5mL</u>		Lab File ID:	<u>V1-0035.D</u>
Level: (low/med) <u>LOW</u>		Date Collected:	7/31/2019 9:00 AM
% Moisture: <u>N/A</u>	Date Received:	<u>8/1/2019 9:00 AM</u>	
Extract Volume: <u>5000(µl)</u>		Date Prepped:	<u>8/5/2019 8:18 AM</u>
Seq Number: <u>808758</u>		Date Analyzed:	<u>8/6/2019 6:28 AM</u>
GC Column: <u>V1 06/10/2019</u>	SN#1629116	Dilution Factor:	<u>1.00</u>
Column ID: <u>0.18(mm)</u>		Batch ID/ Ext Mthd:	<u>22885/PT</u>

CAS NO.	COMPOUND	CONC.	UNITS: µg/	ЬQ	DL	LOD	LOQ
71-43-2	Benzene		0.25	U	0.25	0.25	2.0
108-86-1	Bromobenzene		0.25	υ	0.25	0.25	2.0
74-97-5	Bromochloromethane		0.25	U	0.25	0.25	2.0
75-27-4	Bromodichloromethane		0.25	U	0.25	0.25	2.0
75-25-2	Bromoform		0.25	U	0.25	0.25	2.0
74-83-9	Bromomethane		0.25	U	0.25	0.25	2.0
75-15-0	Carbon disulfide		0.25	U	0.25	0.25	2.0
56-23-5	Carbon tetrachloride		0.25	U	0.25	0.25	2.0
108-90-7	Chlorobenzene		0.25	U	0.25	0.25	2.0
75 - 45-6	Chlorodifluoromethane		0.25	U	0.25	0.25	2.0
75-00-3	Chloroethane		0.25	U	0.25	0.25	2.0
67-66-3	Chloroform		0.25	U	0.25	0.25	2.0
74-87-3	Chloromethane		0.25	U	0.25	0.25	2.0
10061-01-5	cis-1,3-Dichloropropene		0.25	U	0.25	0.25	2.0
110-82-7	Cyclohexane		0.25	υ	0.25	0.25	2.0
124-48-1	Dibromochloromethane		0.25	U	0.25	0.25	2.0
74-95-3	Dibromomethane		0.25	U	0.25	0.25	2.0
75-71-8	Dichlorodifluoromethane		0.25	U	0.25	0.25	2.0
108-20-3	Diisopropyl ether		0.50	ט	0.50	0.50	2.0
64-17-5	Ethanol		2.5	10	2.5	2.5	10
100-41-4	Ethylbenzene		0.76	1	-10.25	0.25	2.0
76-14-2	Freon-114		0.25	ט	0.25	0.25	2.0
87-68-3	Hexachlorobutadiene		0.25	U	0.25	0.25	2.0
98-82-8	Isopropylbenzene		24		0.25	0.25	2.0
179601-23-1	m,p-Xylene		0.67	.	- 🗸 0.50	0.50	4.0
79-20-9	Methyl Acetate		0.25	U	0.25	0.25	2.0
1634-04-4	Methyl tert-butyl ether		0.25	U	0.25	0.25	2.0
75-09-2	Methylene chloride		2.4	ð	0.25	0.25	2.0
104-51-8	n-Butylbenzene		0.25	U	0.25	0.25	2.0
103-65-1	n-Propylbenzene		2.7		0.25	0.25	2.0
91-20-3	Naphthalene		0.25	U	0.25	0.25	2.0
95-47-6	o-Xylene		1.1		0.25	0.25	2.0
105-05-5	p-Diethylbenzene		0.25	U	0.25	0.25	2.0

for 9/9/19

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

	955 at 9 Mar at			MW-1
Lab Name: <u>American</u> Laborato	Analytical ries, LLC.	Contract:		
Lab Code: <u>AAL</u>	ClientID:	<u>Berninger</u>	SAS No.:	SDG No.: <u>1908001</u>
Matrix:	<u>Liquid</u>		Lab Sample ID:	<u>1908001-001A</u>
Sample wt/vol:	<u>5mL</u>		Lab File ID:	<u>V1-0035.D</u>
Level: (low/med)	LOW		Date Collected:	<u>7/31/2019 9:00 AM</u>
% Moisture: <u>N/A</u>			Date Received:	<u>8/1/2019 9:00 AM</u>
Extract Volume: 5	<u>000(µl)</u>		Date Prepped:	<u>8/5/2019 8:18 AM</u>
Seq Number: 808	3758		Date Analyzed:	<u>8/6/2019 6:28 AM</u>
GC Column: <u>V1 06</u>	10/2019 SN#162	9116	Dilution Factor:	1.00
Column ID: 0.18	<u>(mm)</u>		Batch ID/ Ext Mthd:	<u>22885/PT</u>

CAS NO.	COMPOUND	ONC. UNITS: µg/	L Q	DL	LOD	LOQ
622-96-8	p-Ethyltoluene	4.4	「丁	0.25	0.25	2.0
135-98-8	sec-Butylbenzene	0.25	U	0.25	0.25	2.0
100-42-5	Styrene	0.25	U	0.25	0.25	2.0
75-65-0	t-Butyl alcohol	2.5	ט	2.5	2.5	10
98-06-6	tert-Butylbenzene	1.0	J	0.25	0.25	2.0
108-88-3	Toluene	0.49	J	0.25	0.25	2.0
156-60-5	trans-1,2-Dichloroethene	120		0.25	0.25	2.0
10061-02-6	trans-1,3-Dichloropropene	0.25	ט	0.25	0.25	2.0
75-69-4	Trichlorofluoromethane	0.25	U	0.25	0.25	2.0
108-05-4	Vinyl acetate	0.25	ט	0.25	0.25	2.0
75-01-4	Vinyl chloride	140		0.25	0.25	2.0
1330-20-7	Xylenes, Total	1.8	▼	V 0.75	0.75	6.0
108-87-2	Methylcyclohexane	0.25	U	0.25	0.25	2.0
107-02-8	Acrolein	1.0	1	R 1.0	1.0	10
107-13-1	Acrylonitrile	0.25	U	0.25	0.25	2.0

01414

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

	5 8 7						MW-1	
Lab Name: <u>American An</u> <u>Laboratorie</u>	alytical s, LLC.	Contract:						
Lab Code: <u>AAL</u>	ClientID:	<u>Berninger</u>	SAS 1	No.:		SDG	No.: <u>1</u>	<u>908001</u>
Matrix:	Liguid			Lab Sample	ID:	<u>1908001</u>	-001A	
Sample wt/vol:	<u>5mL</u>			Lab File	ID:	<u>V1-001(</u>	<u>).D</u>	
Level: (low/med)	LOW		Γ	Date Collect	ed:	7/31/20	<u>)19 9:00</u>	MA
% Moisture: <u>N/A</u>				Date Receiv	ved:	8/1/201	9 9:00	AM
Extract Volume: 5000)(µl)			Date Prepp	ed:	8/8/201	L9 11:06	MA
Seq Number: <u>81038</u>	5			Date Analyz	ed:	8/8/201	9 5:29	PM
GC Column: <u>V1 06/10</u>	/2019 SN#162	9116	Di	lution Fact	cor:	100.00		
Column ID: 0.18(mm)		Batcł	n ID/ Ext Mt	hd:	<u>22944/1</u>	<u>2T</u>	
CAS NO. COMP	OUND	C	ONC. UI	NITS: µg/L	Q	DL	LOD	LOQ
156-59-2 cis-1,	2-Dichloroether	ne		14000	D	25	25	200
79-01-6 Trichl	oroethene			9900	D	25	25	200

Sora/all9

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

Lab Name: <u>American Analytical</u> Contract: Laboratories, LLC	
AND THE OWNER OWNER OWNER.	
Lab Code: <u>AAL</u> ClientID: <u>Berninger</u> SAS No.:	SDG No.: <u>1908001</u>
Matrix: Liquid Lab Sample 11): <u>1908001-001A</u>
Sample wt/vol: <u>5mL</u> Lab File II	D: <u>V1-0009.D</u>
Level: (low/med) LOW Date Collected	1: <u>7/31/2019 9:00 AM</u>
% Moisture: <u>N/A</u> Date Received	l: <u>8/1/2019 9:00 AM</u>
Extract Volume: 5000(µl) Date Prepped	1: <u>8/8/2019 11:06 AM</u>
Seg Number: <u>810384</u> Date Analyzed	l: <u>8/8/2019 4:59 PM</u>
GC Column: <u>V1 06/10/2019 SN#1629116</u> Dilution Factor	: <u>500.00</u>
Column ID: 0.18(mm) Batch ID/ Ext Mthe	l: <u>22944/PT</u>
CAS NO. COMPOUND CONC. UNITS: µg/L Q	DL LOD LOQ
127-18-4 Tetrachloroethene 32000 I	130 130 1000

forgially

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

			MW-2
Lab Name: <u>American Ar</u> <u>Laboratorie</u>	<u>alytical</u> Contract: <u>s, LLC.</u>		
Lab Code: <u>AAL</u>	ClientID: <u>Berninger</u>	SAS No.:	SDG No.: <u>1908001</u>
Matrix:	<u>Liquid</u>	Lab Sample ID:	<u>1908001-002A</u>
Sample wt/vol:	<u>5mL</u>	Lab File ID:	<u>V1-0012.D</u>
Level: (low/med)	LOW	Date Collected:	<u>7/31/2019 9:10 AM</u>
% Moisture: <u>N/A</u>		Date Received:	<u>8/1/2019 9:00 AM</u>
Extract Volume: 5000	<u>)(µl)</u>	Date Prepped:	<u>8/8/2019 11:06 AM</u>
Seq Number: <u>81038</u>	7	Date Analyzed:	<u>8/8/2019 6:31 PM</u>
GC Column: <u>V1 06/10</u>	<u>/2019 SN#1629116</u>	Dilution Factor:	1.00
Column ID: 0.18(mm	<u>)</u>	Batch ID/ Ext Mthd:	<u>22944/PT</u>

CAS NO.	COMPOUND	CONC.	UNITS: µg/	L Q	DL	LOD	LOQ
630-20-6	1,1,1,2-Tetrachloroethane		0.25	U	0.25	0.25	2.0
71-55-6	1,1,1-Trichloroethane		0.25	U	0.25	0.25	2.0
79-34-5	1,1,2,2-Tetrachloroethane		0.25	U	0.25	0.25	2.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroet	hane	0.25	υ	0.25	0.25	2.0
79-00-5	1,1,2-Trichloroethane		0.25	U	0.25	0.25	2.0
75-34-3	1,1-Dichloroethane		0.25	U	0.25	0.25	2.0
75-35-4	1,1-Dichloroethene		0.25	U	0.25	0.25	2.0
563-58-6	1,1-Dichloropropene		0.25	U	0.25	0.25	2.0
87-61-6	1,2,3-Trichlorobenzene		0.25	υ	0.25	0.25	2.0
96-18-4	1,2,3-Trichloropropane		0.25	U	0.25	0.25	2.0
95-93-2	1,2,4,5-Tetramethylbenzene		0.25	U	0.25	0.25	2.0
120-82-1	1,2,4-Trichlorobenzene		0.25	U	0.25	0.25	2.0
95-63-6	1,2,4-Trimethylbenzene		0.25	U	0.25	0.25	2.0
96-12-8	1,2-Dibromo-3-chloropropane		0.25	U	0.25	0.25	2.0
106-93-4	1,2-Dibromoethane		0.25	U	0.25	0.25	2.0
95-50-1	1,2-Dichlorobenzene		0.25	U	0.25	0.25	2.0
107-06-2	1,2-Dichloroethane		0.25	U	0.25	0.25	2.0
78-87-5	1,2-Dichloropropane		0.25	U	0.25	0.25	2.0
108-67-8	1,3,5-Trimethylbenzene		0.25	U	0.25	0.25	2.0
541-73-1	1,3-Dichlorobenzene		0.25	U	0.25	0.25	2.0
142-28-9	1,3-dichloropropane		0.25	U	0.25	0.25	2.0
106-46-7	1,4-Dichlorobenzene		0.25	υ	0.25	0.25	2.0
123-91-1	1,4-Dioxane		0.25	υ	0.25	0.25	1.0
594-20-7	2,2-Dichloropropane		0.25	υ	0.25	0.25	2.0
78-93-3	2-Butanone		0.50	ט	0.50	0.50	4.0
110-75-8	2-Chloroethyl vinyl ether		10	RO	10	10	20
95-49-8	2-Chlorotoluene		0.25	ט	0.25	0.25	2.0
591-78-6	2-Hexanone		0.50	U	0.50	0.50	4.0
67-63-0	2-Propanol		0.25	U	0.25	0.25	2.0
106-43-4	4-Chlorotoluene		0.25	U	0.25	0.25	2.0
99-87-6	4-Isopropyltoluene		0.25	U	0.25	0.25	2.0
108-10-1	4-Methyl-2-pentanone		0.50	U	0.50	0.50	4.0
67-64-1	Acetone		39	B	UJ 5.0	5.0	10

for 9/9/19

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

- 1		~		MW - 2
Lab Name: <u>Amer</u> Labo	<u>ratories, LLC.</u>	Contract:		
Lab Code: <u>AAL</u>	ClientID:	<u>Berninger</u>	SAS No.:	SDG No.: <u>1908001</u>
Matrix:	Liquid		Lab Sample ID:	<u>1908001-002A</u>
Sample wt/vol:	<u>5mL</u>		Lab File ID:	<u>V1-0012.D</u>
Level: (low/	/med) <u>LOW</u>		Date Collected:	<u>7/31/2019_9:10_AM</u>
% Moisture:	<u>N/A</u>		Date Received:	<u>8/1/2019 9:00 AM</u>
Extract Volume:	: <u>5000(µl)</u>		Date Prepped:	<u>8/8/2019 11:06 AM</u>
Seq Number:	<u>810387</u>		Date Analyzed:	<u>8/8/2019 6:31 PM</u>
GC Column: V	<u>1 06/10/2019 SN#162</u>	9116	Dilution Factor:	1.00
Column ID:	<u>0.18(mm)</u>		Batch ID/ Ext Mthd:	<u>22944/PT</u>

CAS NO.	COMPOUND	CONC.	UNITS: µg/	ьQ	DL	LOD	LOQ
71-43-2	Benzene		0.25	U	0.25	0.25	2.0
108-86-1	Bromobenzene		0.25	U	0.25	0.25	2.0
74-97-5	Bromochloromethane		0.25	U	0.25	0.25	2.0
75-27-4	Bromodichloromethane		0.25	U	0.25	0.25	2.0
75-25-2	Bromoform		0.25	U	0.25	0.25	2.0
74-83-9	Bromomethane		0.25	U	0.25	0.25	2.0
75-15-0	Carbon disulfide		0.25	U	0.25	0.25	2.0
56-23-5	Carbon tetrachloride		0.25	υ	0.25	0.25	2.0
108-90-7	Chlorobenzene		0.25	U	0.25	0.25	2.0
75-45-6	Chlorodifluoromethane		0.25	υ	0.25	0.25	2.0
75-00-3	Chloroethane		0.25	U	0.25	0.25	2.0
67-66-3	Chloroform		0.25	U	0.25	0.25	2.0
74-87-3	Chloromethane		0.25	U	0.25	0.25	2.0
156-59-2	cis-1,2-Dichloroethene		100		0.25	0.25	2.0
10061-01-5	cis-1,3-Dichloropropene		0.25	U	0.25	0.25	2.0
110-82-7	Cyclohexane		0.25	U	0.25	0.25	2.0
124-48-1	Dibromochloromethane		0.25	U	0.25	0.25	2.0
74-95-3	Dibromomethane		0.25	U	0.25	0.25	2.0
75-71-8	Dichlorodifluoromethane		0.25	U	0.25	0.25	2.0
108-20-3	Diisopropyl ether		0.50	U	0.50	0.50	2.0
64-17-5	Ethanol		2.5	10	R 2.5	2.5	10
100-41-4	Ethylbenzene		0.25	U	0.25	0.25	2.0
76-14-2	Freon-114		0.25	U	0.25	0.25	2.0
87-68-3	Hexachlorobutadiene		0.25	U	0.25	0.25	2.0
98-82-8	Isopropylbenzene		0.25	U	0.25	0.25	2.0
179601-23-1	m,p-Xylene		0.50	U	0.50	0.50	4.0
79-20-9	Methyl Acetate		0.25	U	0.25	0.25	2.0
1634-04-4	Methyl tert-butyl ether		0.25	U	0.25	0.25	2.0
75-09-2	Methylene chloride		2.8	18	0.25	0.25	2.0
104-51-8	n-Butylbenzene		0.25	U	0.25	0.25	2.0
103-65-1	n-Propylbenzene		0.25	U	0.25	0.25	2.0
91-20-3	Naphthalene		0.25	U	0.25	0.25	2.0
95-47-6	o-Xylene		0.25	U	0,25	0.25	2.0

for 9/9/19

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

	2 10 10 10 10 10 10 10 10 10 10 10 10 10				MW - 2
Lab Name:	<u>American Ana</u> Laboratories	<u>alytical</u> s, LLC.	Contract:		
Lab Code:	AAL	ClientID:	<u>Berninger</u>	SAS No.:	SDG No.: <u>1908001</u>
Matrix:		<u>Liquid</u>		Lab Sample ID:	<u>1908001-002A</u>
Sample wt/	vol:	<u>5mL</u>		Lab File ID:	<u>V1-0012.D</u>
Level:	(low/med)	LOW		Date Collected:	<u>7/31/2019 9:10 AM</u>
% Moisture	: <u>N/A</u>			Date Received:	<u>8/1/2019 9:00 AM</u>
Extract Vo	lume: <u>5000</u>	<u>(µl)</u>		Date Prepped:	<u>8/8/2019 11:06 AM</u>
Seq Number	: <u>810387</u>			Date Analyzed:	<u>8/8/2019 6:31 PM</u>
GC Column:	<u>V1 06/10/</u>	2019 SN#1629	0116	Dilution Factor:	1.00
Column ID:	<u>0.18(mm)</u>			Batch ID/ Ext Mthd:	<u>22944/PT</u>

CAS NO.	COMPOUND	CONC.	UNITS: µg/	L Q	DL	LOD	LOQ
105-05-5	p-Diethylbenzene		0.25	U	0.25	0.25	2.0
622-96-8	p-Ethyltoluene		0.25	1	0.25	0.25	2.0
135-98-8	sec-Butylbenzene		0.25	ט	0.25	0.25	2.0
100-42-5	Styrene		0.25	U	0.25	0.25	2.0
75-65-0	t-Butyl alcohol		2.5	ט	2.5	2.5	10
98-06-6	tert-Butylbenzene		0.25	U	0.25	0.25	2.0
127-18-4	Tetrachloroethene		190		0.25	0.25	2.0
108-88-3	Toluene		0.25	U	0.25	0.25	2.0
156-60-5	trans-1,2-Dichloroethene		0.85	J	0.25	0.25	2.0
10061-02-6	trans-1,3-Dichloropropene		0.25	U	0.25	0.25	2.0
79-01-6	Trichloroethene		75		0.25	0.25	2.0
75-69-4	Trichlorofluoromethane		0.25	U	0.25	0.25	2.0
108-05-4	Vinyl acetate		0.25	U	0.25	0.25	2.0
75-01-4	Vinyl chloride		0.25	U	0.25	0.25	2.0
1330-20-7	Xylenes, Total		0.75	U	0.75	0.75	6.0
108-87-2	Methylcyclohexane		0.25	U	0.25	0.25	2.0
107-02-8	Acrolein		1.0	10	K 1.0	1.0	10
107-13-1	Acrylonitrile		0.25	U	0.25	0.25	2.0

10/3/19

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

		Г	MW - 3
Lab Name: <u>American Ana</u> Laboratories	<u>alytical</u> Contract <u>s, LLC.</u>	:: L	
Lab Code: <u>AAL</u>	ClientID: <u>Berning</u>	er SAS No.:	SDG No.: <u>1908001</u>
Matrix:	<u>Liquid</u>	Lab Sample ID:	<u>1908001-003A</u>
Sample wt/vol:	<u>5mL</u>	Lab File ID:	<u>V1-0013.D</u>
Level: (low/med)	LOW	Date Collected:	<u>7/31/2019 10:20 AM</u>
% Moisture: <u>N/A</u>		Date Received:	<u>8/1/2019 9:00 AM</u>
Extract Volume: <u>5000</u>	<u>(µl)</u>	Date Prepped:	<u>8/8/2019 11:06 AM</u>
Seq Number: <u>810388</u>		Date Analyzed:	<u>8/8/2019 7:01 PM</u>
GC Column: <u>V1 06/10/</u>	<u>2019 SN#1629116</u>	Dilution Factor:	1.00
Column ID: <u>0.18(mm)</u>		Batch ID/ Ext Mthd:	<u>22944/PT</u>

CAS NO.	COMPOUND CON	C. UNITS: µg/	L Q	DL	LOD	LOQ
630-20-6	1,1,1,2-Tetrachloroethane	0.25	ט	0.25	0.25	2.0
71-55-6	1,1,1-Trichloroethane	0.25	U	0.25	0.25	2.0
79-34-5	1,1,2,2-Tetrachloroethane	0.25	ט	0.25	0.25	2.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.25	U	0.25	0.25	2.0
79-00-5	1,1,2-Trichloroethane	0.25	U	0.25	0.25	2.0
75-34-3	1,1-Dichloroethane	0.25	U	0.25	0.25	2.0
75-35-4	1,1-Dichloroethene	0.25	U	0.25	0.25	2.0
563-58-6	1,1-Dichloropropene	0.25	U	0.25	0.25	2.0
87-61-6	1,2,3-Trichlorobenzene	0.25	U	0.25	0.25	2.0
96-18-4	1,2,3-Trichloropropane	0.25	υ	0.25	0.25	2.0
95-93-2	1,2,4,5-Tetramethylbenzene	0.25	U	0.25	0.25	2.0
120-82-1	1,2,4-Trichlorobenzene	0.25	U	0.25	0.25	2.0
95-63-6	1,2,4-Trimethylbenzene	0.25	U	0.25	0.25	2.0
96-12-8	1,2-Dibromo-3-chloropropane	0.25	U	0.25	0.25	2.0
106-93-4	1,2-Dibromoethane	0.25	U	0.25	0.25	2.0
95-50-1	1,2-Dichlorobenzene	0.25	U	0.25	0.25	2.0
107-06-2	1,2-Dichloroethane	0.25	U	0.25	0.25	2.0
78-87-5	1,2-Dichloropropane	0.25	U	0.25	0.25	2.0
108-67-8	1,3,5-Trimethylbenzene	0.25	U	0.25	0.25	2.0
541-73-1	1,3-Dichlorobenzene	0.25	υ	0.25	0.25	2.0
142-28-9	1,3-dichloropropane	0.25	U	0.25	0.25	2.0
106-46-7	1,4-Dichlorobenzene	0.25	U	0.25	0.25	2.0
123-91-1	1,4-Dioxane	0.25	U	0.25	0.25	1.0
594-20-7	2,2-Dichloropropane	0.25	U	0.25	0.25	2.0
78-93-3	2-Butanone	0.50	U	0.50	0.50	4.0
110-75-8	2-Chloroethyl vinyl ether	10	Roo	10	10	20
95-49-8	2-Chlorotoluene	0.25	U	0.25	0.25	2.0
591-78-6	2-Hexanone	0.50	U	0.50	0.50	4.0
67-63-0	2-Propanol	0.25	U	0.25	0.25	2.0
106-43-4	4-Chlorotoluene	0.25	U	0.25	0.25	2.0
99-87-6	4-Isopropyltoluene	0.25	U	0.25	0.25	2.0
108-10-1	4-Methyl-2-pentanone	0.50	U	0.50	0.50	4.0
67-64-1	Acetone	25	-8	- 1 5.0	5.0	10

0/9/9/19

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

- 1 - 1			MW - 3
Lab Name: <u>American An</u> Laboratorie	<u>alytical</u> Contract: <u>s. LLC.</u>	2	
Lab Code: <u>AAL</u>	ClientID: <u>Berninger</u>	SAS No.:	SDG No.: <u>1908001</u>
Matrix:	Liquid	Lab Sample ID:	<u>1908001-003A</u>
Sample wt/vol:	<u>5mL</u>	Lab File ID:	<u>V1-0013.D</u>
Level: (low/med)	LOW	Date Collected:	<u>7/31/2019 10:20 AM</u>
% Moisture: <u>N/A</u>		Date Received:	<u>8/1/2019 9:00 AM</u>
Extract Volume: 5000	<u>(µl)</u>	Date Prepped:	<u>8/8/2019 11:06 AM</u>
Seq Number: <u>810388</u>	1	Date Analyzed:	<u>8/8/2019 7:01 PM</u>
GC Column: <u>V1 06/10/</u>	2019 SN#1629116	Dilution Factor:	1.00
Column ID: <u>0.18(mm)</u>	-	Batch ID/ Ext Mthd:	<u>22944/PT</u>

CAS NO.	COMPOUND CON	C. UNITS: µg/	L Q	DL	LOD	LOQ
71-43-2	Benzene	0.25	U	0.25	0.25	2.0
108-86-1	Bromobenzene	0.25	U	0.25	0.25	2.0
74-97-5	Bromochloromethane	0.25	U	0.25	0.25	2.0
75-27-4	Bromodichloromethane	0.25	U	0.25	0.25	2.0
75-25-2	Bromoform	0.25	U	0.25	0.25	2.0
74-83-9	Bromomethane	0.25	U	0.25	0.25	2.0
75-15-0	Carbon disulfide	0.25	ט	0.25	0.25	2.0
56-23-5	Carbon tetrachloride	0.25	U	0.25	0.25	2.0
108-90-7	Chlorobenzene	0.25	U	0.25	0.25	2.0
75-45-6	Chlorodifluoromethane	0.25	U	0.25	0.25	2.0
75-00-3	Chloroethane	0.25	U	0.25	0.25	2.0
67-66-3	Chloroform	0.25	U	0.25	0.25	2.0
74-87-3	Chloromethane	0.25	υ	0.25	0.25	2.0
156-59-2	cis-1,2-Dichloroethene	18		0.25	0.25	2.0
10061-01-5	cis-1,3-Dichloropropene	0.25	U	0.25	0.25	2.0
110-82-7	Cyclohexane	0.25	U	0.25	0.25	2.0
124-48-1	Dibromochloromethane	0.25	U	0.25	0.25	2.0
74-95-3	Dibromomethane	0.25	U	0.25	0.25	2.0
75-71-8	Dichlorodifluoromethane	0.25	U	0.25	0.25	2.0
108-20-3	Diisopropyl ether	0.50	U	0.50	0.50	2.0
64-17-5	Ethanol	2.5	7	R 2.5	2.5	10
100-41-4	Ethylbenzene	0.25	U	0.25	0.25	2.0
76-14-2	Freon-114	0.25	U	0.25	0.25	2.0
87-68-3	Hexachlorobutadiene	0.25	U	0.25	0.25	2.0
98-82-8	Isopropylbenzene	0.25	U	0.25	0.25	2.0
179601-23-1	m,p-Xylene	0.50	U	0.50	0.50	4.0
79-20-9	Methyl Acetate	0.25	ט	0.25	0.25	2.0
1634-04-4	Methyl tert-butyl ether	0.25	ט	0.25	0.25	2.0
75-09-2	Methylene chloride	2.9	Ą	0.25	0.25	2.0
104-51-8	n-Butylbenzene	0.25	U	0.25	0.25	2.0
103-65-1	n-Propylbenzene	0.25	U	0.25	0.25	2.0
91-20-3	Naphthalene	0.25	U	0.25	0.25	2.0
95-47-6	o-Xylene	0.25	U	0.25	0.25	2.0

forg/alla

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

			MW - 3
Lab Name: <u>American An</u> Laboratorie	<u>alytical</u> Contrac s. LLC.	t:	
Lab Code: <u>AAL</u>	ClientID: <u>Berning</u>	ger SAS No.:	SDG No.: <u>1908001</u>
Matrix:	Liquid	Lab Sample ID:	<u>1908001-003A</u>
Sample wt/vol:	<u>5mL</u>	Lab File ID:	<u>V1-0013.D</u>
Level: (low/med)	LOW	Date Collected:	7/31/2019 10:20 AM
% Moisture: <u>N/A</u>		Date Received:	<u>8/1/2019 9:00 AM</u>
Extract Volume: <u>5000</u>	<u>(µ1)</u>	Date Prepped:	<u>8/8/2019 11:06 AM</u>
Seq Number: <u>810388</u>		Date Analyzed:	<u>8/8/2019 7:01 PM</u>
GC Column: <u>V1 06/10/</u>	2019 SN#1629116	Dilution Factor:	1.00
Column ID: <u>0.18(mm)</u>	-	Batch ID/ Ext Mthd:	<u>22944/PT</u>

CAS NO.	COMPOUND	CONC.	UNITS:	μg/:	ΓQ	DL	LOD	LOQ
105-05-5	p-Diethylbenzene			0.25	ט	0.25	0.25	2.0
622-96-8	p-Ethyltoluene			0.25	4	UJ 0.25	0.25	2.0
135-98-8	sec-Butylbenzene			0.25	U	0.25	0.25	2.0
100-42-5	Styrene			0.25	U	0.25	0.25	2.0
75-65-0	t-Butyl alcohol			2.5	υ	2.5	2.5	10
98-06-6	tert-Butylbenzene			0.25	U	0.25	0.25	2.0
127-18-4	Tetrachloroethene			110		0.25	0.25	2.0
108-88-3	Toluene			0.26	BJ	V 0.25	0.25	2.0
156-60-5	trans-1,2-Dichloroethene			1.1	J	0.25	0.25	2.0
10061-02-6	trans-1,3-Dichloropropene			0.25	ΰ	0.25	0.25	2.0
79-01-6	Trichloroethene			31		0.25	0.25	2.0
75-69-4	Trichlorofluoromethane			0.25	ט	0.25	0.25	2.0
108-05-4	Vinyl acetate			0.25	υ	0.25	0.25	2.0
75-01-4	Vinyl chloride			0.25	U	0.25	0.25	2.0
1330-20-7	Xylenes, Total			0.75	υ	0.75	0.75	6.0
108-87-2	Methylcyclohexane			0.25	υ	0.25	0.25	2.0
107-02-8	Acrolein			1.0	×	K 1.0	1.0	10
107-13-1	Acrylonitrile			0.25	U	0.25	0.25	2.0

forgialia

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

Tab Maria					MW-6A
Lab Name:	American Ana Laboratories	alytical s. LLC.	Contract:		
Lab Code:	AAL	ClientID:	<u>Berninger</u>	SAS No.:	SDG No.: <u>1908001</u>
Matrix:		Liquid		Lab Sample ID:	<u>1908001-004A</u>
Sample wt/	vol:	<u>5mL</u>		Lab File ID:	<u>V1-0014.D</u>
Level:	(low/med)	LOW		Date Collected:	<u>7/31/2019 10:30 AM</u>
% Moisture	: <u>N/A</u>			Date Received:	<u>8/1/2019 9:00 AM</u>
Extract Vo	lume: <u>5000</u>	<u>(µl)</u>		Date Prepped:	<u>8/8/2019 11:06 AM</u>
Seq Number	: <u>810389</u>			Date Analyzed:	<u>8/8/2019 7:32 PM</u>
GC Column:	<u>V1 06/10/</u>	2019 SN#1629	0116	Dilution Factor:	<u>1.00</u>
Column ID:	<u>0.18(mm)</u>			Batch ID/ Ext Mthd:	<u>22944/PT</u>

CAS NO.	COMPOUND CONC	. UNITS: $\mu g/$	L Q	DL	LOD	LOQ
630-20-6	1,1,1,2-Tetrachloroethane	0.25	U U	0.25	0.25	2.0
71-55-6	1,1,1-Trichloroethane	0.25	U	0.25	0.25	2.0
79-34-5	1,1,2,2-Tetrachloroethane	0.25	U	0.25	0.25	2.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.25	U	0.25	0.25	2.0
79-00-5	1,1,2-Trichloroethane	0.25	U	0.25	0.25	2.0
75-34-3	1,1-Dichloroethane	0.25	U	0.25	0.25	2.0
75-35-4	1,1-Dichloroethene	0.50	J	0.25	0.25	2.0
563-58-6	1,1-Dichloropropene	0.25	υ	0.25	0.25	2.0
87-61-6	1,2,3-Trichlorobenzene	0.25	U	0.25	0.25	2.0
96-18-4	1,2,3-Trichloropropane	0.25	U	0.25	0.25	2.0
95-93-2	1,2,4,5-Tetramethylbenzene	0.25	U	0.25	0.25	2.0
120-82-1	1,2,4-Trichlorobenzene	0.25	U	0.25	0.25	2.0
95-63-6	1,2,4-Trimethylbenzene	0.25	U	0.25	0.25	2.0
96-12-8	1,2-Dibromo-3-chloropropane	0.25	U	0.25	0.25	2.0
106-93-4	1,2-Dibromoethane	0.25	U	0.25	0.25	2.0
95-50-1	1,2-Dichlorobenzene	0.25	ט	0.25	0.25	2.0
107-06-2	1,2-Dichloroethane	0.25	U	0.25	0.25	2.0
78-87-5	1,2-Dichloropropane	0.25	U	0.25	0.25	2.0
108-67-8	1,3,5-Trimethylbenzene	0.25	U	0.25	0.25	2.0
541-73-1	1,3-Dichlorobenzene	0.25	U	0.25	0.25	2.0
142-28-9	1,3-dichloropropane	0.25	U	0.25	0.25	2.0
106-46-7	1,4-Dichlorobenzene	0.25	Ŭ	0.25	0.25	2.0
123-91-1	1,4-Dioxane	0.25	U	0.25	0.25	1.0
594-20-7	2,2-Dichloropropane	0.25	ט	0.25	0.25	2.0
78-93-3	2-Butanone	0.50	U	0.50	0.50	4.0
110-75-8	2-Chloroethyl vinyl ether	10	RB	10	10	20
95-49-8	2-Chlorotoluene	0.25	U	0.25	0.25	2.0
591-78-6	2-Hexanone	0.50	U	0.50	0.50	4.0
67-63-0	2-Propanol	0.25	U	0.25	0.25	2.0
106-43-4	4-Chlorotoluene	0.25	U	0.25	0.25	2.0
99-87-6	4-Isopropyltoluene	0.25	U	0.25	0.25	2.0
108-10-1	4-Methyl-2-pentanone	0.50	U	0.50	0.50	4.0
67-64-1	Acetone	47	4	· (J5.0	5.0	10

SW8260C forg/9/19

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

			MW-6A
Lab Name: <u>American And</u> Laboratories	<u>alytical</u> Contract: s, LLC.		
Lab Code: <u>AAL</u>	ClientID: <u>Berninger</u>	SAS No.:	SDG No.: <u>1908001</u>
Matrix:	Liquid	Lab Sample ID:	<u>1908001-004A</u>
Sample wt/vol:	<u>5mL</u>	Lab File ID:	<u>V1-0014.D</u>
Level: (low/med)	LOW	Date Collected:	7/31/2019 10:30 AM
% Moisture: <u>N/A</u>		Date Received:	<u>8/1/2019 9:00 AM</u>
Extract Volume: 5000	<u>(µl)</u>	Date Prepped:	<u>8/8/2019 11:06 AM</u>
Seq Number: <u>810389</u>	ę	Date Analyzed:	<u>8/8/2019 7:32 PM</u>
GC Column: <u>V1 06/10/</u>	2019 SN#1629116	Dilution Factor:	1.00
Column ID: <u>0.18(mm)</u>	1	Batch ID/ Ext Mthd:	<u>22944/PT</u>

CAS NO.	COMPOUND CONC	C. UNITS: μg/	L Q	DL	LOD	LOQ
71-43-2	Benzene	0.25	U	0.25	0.25	2.0
108-86-1	Bromobenzene	0.25	U	0.25	0.25	2.0
74-97-5	Bromochloromethane	0.25	U	0.25	0.25	2.0
75-27-4	Bromodichloromethane	0.25	U	0.25	0.25	2.0
75-25-2	Bromoform	0.25	U	0.25	0.25	2.0
74-83-9	Bromomethane	0.25	U	0.25	0.25	2.0
75-15-0	Carbon disulfide	0.25	U	0.25	0.25	2.0
56-23-5	Carbon tetrachloride	0.25	U	0.25	0.25	2.0
108-90-7	Chlorobenzene	0.25	U	0.25	0.25	2.0
75-45-6	Chlorodifluoromethane	0.25	U	0.25	0.25	2.0
75-00-3	Chloroethane	0.25	υ	0.25	0.25	2.0
67-66-3	Chloroform	0.25	U	0.25	0.25	2.0
74-87-3	Chloromethane	0.25	U	0.25	0.25	2.0
10061-01-5	cis-1,3-Dichloropropene	0.25	ט	0.25	0.25	2.0
110-82-7	Cyclohexane	0.25	U	0.25	0.25	2.0
124-48-1	Dibromochloromethane	0.25	υ	0.25	0.25	2.0
74-95-3	Dibromomethane	0.25	U	0.25	0.25	2.0
75-71-8	Dichlorodifluoromethane	0.25	U	0.25	0.25	2.0
108-20-3	Diisopropyl ether	0.50	U	0.50	0.50	2.0
64-17-5	Ethanol	2.5	, 1	R 2.5	2.5	10
100-41-4	Ethylbenzene	0.25	U	0.25	0.25	2.0
76-14-2	Freon-114	0.25	U	0.25	0.25	2.0
87-68-3	Hexachlorobutadiene	0.25	ប	0.25	0.25	2.0
98-82-8	Isopropylbenzene	0.25	U	0.25	0.25	2.0
179601-23-1	m,p-Xylene	0.50	U	0.50	0.50	4.0
79-20-9	Methyl Acetate	0.25	ט	0.25	0.25	2.0
1634-04-4	Methyl tert-butyl ether	0.25	ט	0.25	0.25	2.0
75-09-2	Methylene chloride	2.8	æ	0.25	0.25	2.0
104-51-8	n-Butylbenzene	0.25	υ	0.25	0.25	2,0
103-65-1	n-Propylbenzene	0.25	U	0.25	0.25	2.0
91-20-3	Naphthalene	0.25	U	0.25	0.25	2.0
95-47-6	o-Xylene	0.25	U	0.25	0.25	2.0
105-05-5	p-Diethylbenzene	0.25	U	0.25	0.25	2.0

19

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

	5 5 5		MW-6A
Lab Name: <u>American An</u> <u>Laboratorie</u>	<u>alytical</u> Contract <u>s, LLC.</u>	:	
Lab Code: <u>AAL</u>	ClientID: <u>Berning</u> e	er SAS No.:	SDG No.: <u>1908001</u>
Matrix:	Liquid	Lab Sample ID:	<u>1908001-004A</u>
Sample wt/vol:	<u>5mL</u>	Lab File ID:	<u>V1-0014.D</u>
Level: (low/med)	LOW	Date Collected:	<u>7/31/2019 10:30 AM</u>
% Moisture: <u>N/A</u>		Date Received:	<u>8/1/2019 9:00 AM</u>
Extract Volume: 5000	<u>(µl)</u>	Date Prepped:	<u>8/8/2019 11:06 AM</u>
Seq Number: 810389	2	Date Analyzed:	<u>8/8/2019 7:32 PM</u>
GC Column: <u>V1 06/10/</u>	2019 SN#1629116	Dilution Factor:	<u>1.00</u>
Column ID: 0.18(mm)	<u>)</u>	Batch ID/ Ext Mthd:	<u>22944/PT</u>
CAS NO. COMP	OUND	CONC. UNITS: µg/L Q	DL LOD LOQ

CAS NO.	COMPOUND	CONC.	UNITS: µg/	ьQ	DL	LOD	LOQ
622-96-8	p-Ethyltoluene		0.25	لظر	0.25	0.25	2.0
135-98-8	sec-Butylbenzene		0.25	U	0.25	0.25	2.0
100-42-5	Styrene		0.25	U	0.25	0.25	2.0
75-65-0	t-Butyl alcohol		2.5	U	2.5	2.5	10
98-06-6	tert-Butylbenzene		0.25	U	0.25	0.25	2.0
108-88-3	Toluene		0.36	BJ	0.25	0,25	2.0
156-60-5	trans-1,2-Dichloroethene		25		0.25	0.25	2.0
10061-02-6	trans-1,3-Dichloropropene		0.25	U	0.25	0.25	2.0
75-69-4	Trichlorofluoromethane		0.25	U	0,25	0.25	2.0
108-05-4	Vinyl acetate		0.25	U	0.25	0.25	2.0
75-01-4	Vinyl chloride		5.0		0.25	0.25	2.0
1330-20-7	Xylenes, Total		0.75	ΰ	0,75	0.75	6.0
108-87-2	Methylcyclohexane		0.25	U	0.25	0,25	2.0
107-02-8	Acrolein		1.0	IJ	R 1.0	1.0	10
107-13-1	Acrylonitrile		0.25	U	0.25	0.25	2.0

for 9/9/19

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

					MW-6A	
Lab Name: <u>Americ</u> Labora	<u>can Analytical</u> atories, LLC.	Contract:	·			
Lab Code: <u>AAL</u>	ClientID:	<u>Berninger</u> SAS	No.:	SDG	No.: <u>1</u>	908001
Matrix:	Liquid		Lab Sample I	D: <u>190800</u>)1-004A	
Sample wt/vol:	<u>5mL</u>		Lab File I	D: <u>V1-00</u>	<u>L3.D</u>	
Level: (low/me	ed) <u>LOW</u>		Date Collecte	d: <u>7/31/2</u>	2019 10:3	<u>30 AM</u>
% Moisture: <u>N</u>	<u>1/A</u>		Date Receive	d: <u>8/1/2(</u>	19 9:00	AM
Extract Volume:	<u>5000(µl)</u>		Date Preppe	d: <u>8/9/2(</u>	19 8:02	AM
Seq Number:	811569		Date Analyze	d: <u>8/9/20</u>	19 3:24	PM
GC Column: <u>V1</u>	06/10/2019 SN#162	9116	Dilution Facto	r: <u>100.00</u>	<u>)</u>	
Column ID: <u>0.</u>	<u>18 (mm)</u>	Bat	ch ID/ Ext Mth	d: <u>22956</u> /	<u>PT</u>	
CAS NO.	COMPOUND	CONC.	UNITS: µg/L	Q DL	LOD	LOQ
156-59-2	cis-1,2-Dichloroether	le	2600	D 25	25	200
127-18-4	Tetrachloroethene		5200	D 25	25	200
79-01-6	Trichloroethene		1400	D 25	25	200

forg/allg

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

Ich Nome, Amorican		merican Analytical Contra			MW - 7		
Lab Name:	Laboratories	<u>s, LLC.</u>	contract:				
Lab Code:	AAL	ClientID:	<u>Berninger</u>	SAS No.:	SDG No.: <u>1908001</u>		
Matrix:		<u>Liquid</u>		Lab Sample ID	: <u>1908001~005A</u>		
Sample wt/	vol:	<u>5mL</u>		Lab File ID	: <u>V1-0015.D</u>		
Level:	(low/med)	LOW		Date Collected	: <u>7/31/2019 11:00 AM</u>		
% Moisture	: <u>N/A</u>			Date Received	: <u>8/1/2019 9:00 AM</u>		
Extract Vo	lume: <u>5000</u>	(µl)		Date Prepped	: <u>8/8/2019 11:06 AM</u>		
Seq Number	: <u>810390</u>			Date Analyzed	: <u>8/8/2019 8:03 PM</u>		
GC Column:	<u>V1 06/10/</u>	2019 SN#1629	0116	Dilution Factor	: <u>1.00</u>		
Column ID:	<u>0.18(mm)</u>			Batch ID/ Ext Mthd	: <u>22944/PT</u>		

CAS NO.	COMPOUND	CONC.	UNITS: µg/	L Q	DL	LOD	LOQ
630-20-6	1,1,1,2-Tetrachloroethane		0.25	U	0.25	0.25	2.0
71-55-6	1,1,1-Trichloroethane		0.25	U	0.25	0.25	2.0
79-34-5	1,1,2,2-Tetrachloroethane		0.25	υ	0.25	0.25	2.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroeth	ane	0.25	U	0.25	0.25	2.0
79-00-5	1,1,2-Trichloroethane		0.25	U	0.25	0.25	2.0
75-34-3	1,1-Dichloroethane		0.25	U	0.25	0.25	2.0
75-35-4	1,1-Dichloroethene		1.0	J	0.25	0.25	2.0
563-58-6	1,1-Dichloropropene		0.25	U	0.25	0.25	2.0
87-61-6	1,2,3-Trichlorobenzene		0.25	υ	0.25	0.25	2.0
96-18-4	1,2,3-Trichloropropane		0.25	U	0.25	0.25	2.0
95-93-2	1,2,4,5-Tetramethylbenzene		0.25	U	0.25	0.25	2.0
120-82-1	1,2,4-Trichlorobenzene		0.25	U	0.25	0.25	2.0
95-63-6	1,2,4-Trimethylbenzene		0.25	U	0.25	0.25	2.0
96-12-8	1,2-Dibromo-3-chloropropane		0.25	U	0.25	0.25	2.0
106-93-4	1,2-Dibromoethane		0.25	U	0.25	0.25	2.0
95-50-1	1,2-Dichlorobenzene		0.25	U	0.25	0.25	2.0
107-06-2	1,2-Dichloroethane		0.25	U	0.25	0.25	2.0
78-87-5	1,2-Dichloropropane		0.25	υ	0.25	0.25	2.0
108-67-8	1,3,5-Trimethylbenzene		0.25	U	0.25	0.25	2.0
541-73-1	1,3-Dichlorobenzene		0.25	U	0.25	0.25	2.0
142-28-9	1,3-dichloropropane		0.25	U	0.25	0.25	2.0
106-46-7	1,4-Dichlorobenzene		0.25	U	0.25	0.25	2.0
123-91-1	l,4-Dioxane		0.25	U	0.25	0.25	1.0
594-20-7	2,2-Dichloropropane		0.25	U	0.25	0.25	2.0
78-93-3	2-Butanone		0.50	U	0.50	0.50	4.0
110-75-8	2-Chloroethyl vinyl ether		10	Ro	10	10	20
95-49-8	2-Chlorotoluene		0.25	U	0.25	0.25	2.0
591-78-6	2-Hexanone		0.50	υ	0.50	0.50	4.0
67-63-0	2-Propanol		0.25	U	0.25	0.25	2.0
106-43-4	4-Chlorotoluene		0.25	U	0.25	0.25	2.0
99-87-6	4-Isopropyltoluene		0.25	U	0.25	0.25	2.0
108-10-1	4-Methyl-2-pentanone		0.50	υ	0.50	0.50	4.0
67-64-1	Acetone		23	B	1.15.0	5.0	10

3/9/9/19

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

			MW - '7
Lab Name: <u>American An</u> <u>Laboratorie</u>	<u>alytical</u> Contract: <u>s. LLC.</u>		
Lab Code: <u>AAL</u>	ClientID: <u>Berninger</u>	SAS No.:	SDG No.: <u>1908001</u>
Matrix:	Liquid	Lab Sample ID:	<u>1908001-005A</u>
Sample wt/vol:	<u>5mL</u>	Lab File ID:	<u>V1-0015.D</u>
Level: (low/med)	LOW	Date Collected:	<u>7/31/2019 11:00 AM</u>
% Moisture: <u>N/A</u>		Date Received:	<u>8/1/2019 9:00 AM</u>
Extract Volume: <u>5000</u>	<u>(µl)</u>	Date Prepped:	<u>8/8/2019 11:06 AM</u>
Seq Number: <u>810390</u>	<u>)</u>	Date Analyzed:	<u>8/8/2019 8:03 PM</u>
GC Column: <u>V1 06/10</u> /	<u>/2019 SN#1629116</u>	Dilution Factor:	1.00
Column ID: 0.18(mm)	E	Batch ID/ Ext Mthd:	<u>22944/PT</u>

CAS NO.	COMPOUND	CONC.	UNITS: µg/	ЬQ	DL	LOD	LOQ
71-43-2	Benzene		0.25	U	0.25	0.25	2.0
108-86-1	Bromobenzene		0.25	U	0.25	0.25	2.0
74~97-5	Bromochloromethane		0.25	U	0.25	0.25	2.0
75-27-4	Bromodichloromethane		0.25	U	0.25	0.25	2.0
75-25-2	Bromoform		0.25	ט	0.25	0.25	2.0
74-83-9	Bromomethane		0.25	U	0.25	0.25	2.0
75-15-0	Carbon disulfide		0.25	U	0.25	0.25	2.0
56-23-5	Carbon tetrachloride		0.25	U	0.25	0.25	2.0
108-90-7	Chlorobenzene		0.25	U	0.25	0.25	2.0
75-45-6	Chlorodifluoromethane		0.25	υ	0.25	0.25	2.0
75-00-3	Chloroethane		0.25	U	0.25	0.25	2.0
67-66-3	Chloroform		0.25	ט	0.25	0.25	2.0
74-87-3	Chloromethane		0.25	U	0.25	0.25	2.0
10061-01-5	cis-1,3-Dichloropropene		0.25	U	0.25	0.25	2.0
110-82-7	Cyclohexane		0.25	U	0.25	0.25	2.0
124-48-1	Dibromochloromethane		0.25	U	0.25	0.25	2.0
74-95-3	Dibromomethane		0.25	ט	0.25	0.25	2.0
75-71-8	Dichlorodifluoromethane		0.25	U	0.25	0.25	2.0
108-20-3	Diisopropyl ether		0.50	U	0.50	0.50	2.0
64-17-5	Ethanol		2.5	10	R 2.5	2.5	10
100-41-4	Ethylbenzene		0.25	U	0.25	0.25	2.0
76-14-2	Freon-114		0.25	υ	0.25	0.25	2.0
87-68-3	Hexachlorobutadiene		0.25	ប	0.25	0.25	2.0
98-82-8	Isopropylbenzene		0.25	ប	0.25	0.25	2.0
179601-23-1	m,p-Xylene		0.50	U	0.50	0.50	4.0
79-20 - 9	Methyl Acetate		0.25	ប	0.25	0.25	2.0
1634-04-4	Methyl tert-butyl ether		0.25	U	0.25	0.25	2.0
75-09-2	Methylene chloride		2.7	P	0.25	0.25	2.0
104-51-8	n-Butylbenzene		0.25	U	0.25	0.25	2.0
103-65-1	n-Propylbenzene		0.25	U	0.25	0.25	2.0
91-20-3	Naphthalene		0.25	U	0.25	0.25	2.0
95-47-6	o-Xylene		0.25	U	0.25	0.25	2.0
105-05-5	p-Diethylbenzene		0.25	U	0.25	0.25	2.0

for 19/19

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

				MW - 7		
Lab Name: <u>American An</u> Laboratorie	<u>alytical</u>	Contract:				
haboracorre	S, HIC.					
Lab Code: <u>AAL</u>	ClientID:	<u>Berninger</u>	SAS No.:		SDG No.:	<u>1908001</u>
Matrix:	Liquid		Lab Samp	le ID:	<u>1908001-005A</u>	
Sample wt/vol:	<u>5mL</u>		Lab Fi	le ID:	<u>V1-0015.D</u>	
Level: (low/med)	LOW		Date Colle	ected:	<u>7/31/2019 11</u>	:00 AM
% Moisture: <u>N/A</u>			Date Rece	eived:	8/1/2019 9:0	<u>MA 0</u>
Ab Name:American Analytical Laboratories, LLC.Contract: Laboratories, LLC.ab Code:AALClientID:BerningerSAS No.:SDG No.:1908001atrix:LiquidLab Sample ID:1908001-005Aatrix:LiquidLab File ID:V1-0015.Dample wt/vol:5mLLab File ID:V1-0015.Devel:(low/med)LOWDate Collected:7/31/2019 11:00 AMMoisture:N/ADate Received:8/1/2019 9:00 AMxtract Volume:5000(µl)Date Prepped:8/8/2019 11:06 AMeq Number:810390Date Analyzed:8/8/2019 8:03 PMC Column:V1 06/10/2019 SN#1629116Dilution Factor:1.00blumn ID:0.18(mm)Batch ID/ Ext Mthd:22944/PT						
Seq Number: <u>810390</u>	<u>)</u>		Date Ana	lyzed:	8/8/2019 8:0	<u>3 PM</u>
GC Column: <u>V1 06/10</u>	2019 SN#1629	9116	Dilution Fa	actor:	<u>1.00</u>	
Column ID: 0.18(mm	<u>)</u>		Batch ID/ Ext	Mthd:	<u>22944/PT</u>	

CAS NO.	COMPOUND	CONC. U	MITS: µg/1	L Q	DL	LOD	LOQ
622-96-8	p-Ethyltoluene		0.25	Ja .	U. 0.25	0.25	2.0
135-98-8	sec-Butylbenzene		0.25	U	0.25	0.25	2.0
100-42-5	Styrene		0.25	Ŭ	0.25	0.25	2.0
75-65-0	t-Butyl alcohol		2.5	υ	2.5	2.5	10
98-06-6	tert-Butylbenzene		0.25	U	0.25	0.25	2.0
108-88-3	Toluene		0.25	U	0.25	0.25	2.0
156-60-5	trans-1,2-Dichloroethene		23		0.25	0.25	2.0
10061-02-6	trans-1,3-Dichloropropene		0.25	U	0.25	0.25	2.0
75-69-4	Trichlorofluoromethane		0.25	ប	0.25	0.25	2.0
108-05-4	Vinyl acetate		0.25	U	0.25	0.25	2.0
75-01-4	Vinyl chloride		23		0.25	0.25	2.0
1330-20-7	Xylenes, Total		0.75	U	0.75	0.75	6.0
108-87-2	Methylcyclohexane		0.25	υ	0.25	0.25	2.0
107-02-8	Acrolein		1.0	فلر	R 1.0	1.0	10
107-13-1	Acrylonitrile		0.25	υ	0.25	0.25	2.0

for 10/3/19

VOLATILE SW-846 METHOD 8260 CLIENT SAMPLE NO.

					MW - 7	
Lab Name: <u>Americ</u> Labora	<u>itories, LLC.</u>	Contract:		. <u>.</u>		
Lab Code: <u>AAL</u>	ClientID:	<u>Berninger</u> SA	AS No.:	SDG	No.: <u>1</u>	<u>908001</u>
Matrix:	<u>Liquid</u>		Lab Sample	ID: <u>190800</u>	<u>)1-005A</u>	
Sample wt/vol:	<u>5mL</u>		Lab File	ID: <u>V1-001</u>	<u>4.D</u>	
Level: (low/me	ed) <u>LOW</u>		Date Collect	ed: <u>7/31/2</u>	<u>019 11:0</u>	<u>)0 AM</u>
% Moisture: <u>N</u>	<u>1/F</u>		Date Receiv	red: <u>8/1/20</u>	19 9:00	AM
Extract Volume:	<u>5000(µl)</u>		Date Prepp	ed: <u>8/9/20</u>	19 8:02	AM
Seq Number:	811570		Date Analyz	ed: <u>8/9/20</u>)19 3:55	PM
GC Column: V1	<u>06/10/2019 SN#162</u>	9116	Dilution Fact	or: <u>100.00</u>	<u>)</u>	
Column ID: <u>0.</u>	<u>18(mm)</u>	Ba	itch ID/ Ext Mt	.hd: <u>22956/</u>	<u>'PT</u>	
CAS NO.	COMPOUND	CONC	. UNITS: $\mu g/L$	Q DL	LOD	LOQ
156-59-2	cis-1,2-Dichloroether	ie	1800	D 25	25	200
127-18-4	Tetrachloroethene		11000	D 25	25	200
79-01-6	Trichloroethene		1300	D 25	25	200

forgalla

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

T - 1- 3T		7			MM - 8
Lab Name: <u>American A</u> <u>Laboratori</u>		<u>alytical</u> Contract: <u>s, LLC.</u>			
Lab Code:	AAL	ClientID:	<u>Berninger</u>	SAS No.:	SDG No.: <u>1908001</u>
Matrix:		<u>Liquid</u>		Lab Sample ID:	<u>1908001-006A</u>
Sample wt/v	vol:	<u>5mL</u>		Lab File ID:	<u>V1-0016.D</u>
Level:	(low/med)	LOW		Date Collected:	<u>7/31/2019 11:30 AM</u>
% Moisture:	: <u>N/A</u>			Date Received:	<u>8/1/2019 9:00 AM</u>
Extract Vol	lume: <u>5000</u>	(µl)		Date Prepped:	<u>8/8/2019 11:06 AM</u>
Seq Number:	<u>810391</u>			Date Analyzed:	<u>8/8/2019 8:34 PM</u>
GC Column:	<u>V1 06/10/</u>	2019 SN#1629	0116	Dilution Factor:	<u>1.00</u>
Column ID:	<u>0.18(mm)</u>			Batch ID/ Ext Mthd:	<u>22944/PT</u>

CAS NO.	COMPOUND CC	DNC.	UNITS: µg/	L Q	DL	LOD	LOQ
630-20-6	1,1,1,2-Tetrachloroethane		0.25	υ	0.25	0.25	2.0
71-55-6	1,1,1-Trichloroethane		0.25	υ	0.25	0.25	2.0
79-34-5	1,1,2,2-Tetrachloroethane		0.25	U	0.25	0.25	2.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethar	ne	0.25	υ	0.25	0.25	2.0
79-00-5	1,1,2-Trichloroethane		0.25	υ	0.25	0.25	2.0
75-34-3	1,1-Dichloroethane		0.25	U	0.25	0.25	2.0
75-35-4	1,1-Dichloroethene		1.1	J	0.25	0.25	2.0
563-58-6	1,1-Dichloropropene		0.25	U	0.25	0.25	2.0
87-61-6	1,2,3-Trichlorobenzene		0.25	υ	0.25	0.25	2.0
96-18-4	1,2,3-Trichloropropane		0.25	υ	0.25	0.25	2.0
95-93-2	1,2,4,5-Tetramethylbenzene		0.25	U	0.25	0.25	2.0
120-82-1	1,2,4-Trichlorobenzene		0.25	U	0.25	0.25	2.0
95-63-6	1,2,4-Trimethylbenzene		0.25	U	0.25	0.25	2.0
96-12-8	1,2-Dibromo-3-chloropropane		0.25	U	0.25	0.25	2.0
106-93-4	1,2-Dibromoethane		0.25	U	0.25	0.25	2.0
95-50-1	1,2-Dichlorobenzene		0.25	U	0.25	0.25	2.0
107-06-2	1,2-Dichloroethane		0.25	U	0.25	0.25	2.0
78-87-5	1,2-Dichloropropane		0.25	U	0.25	0.25	2.0
108-67-8	1,3,5-Trimethylbenzene		0.25	U	0.25	0.25	2.0
541-73-1	1,3-Dichlorobenzene		0.25	U	0.25	0.25	2.0
142-28-9	1,3-dichloropropane		0.25	U	0.25	0.25	2.0
106-46-7	1,4-Dichlorobenzene		0.25	U	0.25	0.25	2.0
123-91-1	1,4-Dioxane		0.25	U	0.25	0.25	1.0
594-20-7	2,2-Dichloropropane		0.25	U	0.25	0.25	2.0
78-93-3	2-Butanone		0.50	U	0.50	0.50	4.0
110-75-8	2-Chloroethyl vinyl ether		10	Ro	10	10	20
95-49-8	2-Chlorotoluene		0.25	U	0.25	0.25	2.0
591-78-6	2-Hexanone		0.50	U	0.50	0.50	4.0
67-63-0	2~Propanol		0.25	U	0.25	0.25	2.0
106-43-4	4-Chlorotoluene		0.25	U	0.25	0.25	2.0
99-87-6	4-Isopropyltoluene		0.25	υ	0.25	0.25	2.0
108-10-1	4-Methyl-2-pentanone		0.50	U	0.50	0.50	4.0
67-64-1	Acetone		23	ł	· U_5.0	5.0	10

foralalla

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

	3		MW~ 8
Lab Name: <u>American Ana</u> <u>Laboratories</u>	<u>alytical</u> Contract: <u>5, LLC.</u>		
Lab Code: <u>AAL</u>	ClientID: <u>Berninger</u>	SAS No.:	SDG No.: <u>1908001</u>
Matrix:	Liquid	Lab Sample ID:	<u>1908001-006A</u>
Sample wt/vol:	<u>5mL</u>	Lab File ID:	<u>V1-0016.D</u>
Level: (low/med)	LOW	Date Collected:	<u>7/31/2019 11:30 AM</u>
% Moisture: <u>N/A</u>		Date Received:	<u>8/1/2019 9:00 AM</u>
Extract Volume: <u>5000</u>	<u>(µ1)</u>	Date Prepped:	<u>8/8/2019 11:06 AM</u>
Seq Number: <u>810391</u>		Date Analyzed:	<u>8/8/2019 8:34 PM</u>
GC Column: <u>V1 06/10/</u>	2019 SN#1629116	Dilution Factor:	<u>1.00</u>
Column ID: 0.18(mm)		Batch ID/ Ext Mthd:	<u>22944/PT</u>

CAS NO.	COMPOUND CONC.	UNITS: µg/1	L Q	DL	LOD	LOQ
71-43-2	Benzene	0.25	U	0.25	0.25	2.0
108-86-1	Bromobenzene	0.25	U	0.25	0.25	2.0
74-97-5	Bromochloromethane	0.25	U	0.25	0.25	2.0
75-27-4	Bromodichloromethane	0.44	J	0.25	0.25	2.0
75-25-2	Bromoform	0.25	U	0.25	0.25	2.0
74-83-9	Bromomethane	0.25	U	0.25	0.25	2.0
75-15-0	Carbon disulfide	0.25	U	0.25	0.25	2.0
56-23-5	Carbon tetrachloride	0.25	U	0.25	0.25	2.0
108-90-7	Chlorobenzene	0.25	ប	0.25	0.25	2.0
75-45-6	Chlorodifluoromethane	0.25	U	0.25	0.25	2.0
75-00-3	Chloroethane	0.25	ט	0.25	0.25	2.0
67-66-3	Chloroform	0.29	J	0.25	0.25	2.0
74-87-3	Chloromethane	0.25	U	0.25	0.25	2.0
10061-01-5	cis-1,3-Dichloropropene	0.25	U	0.25	0.25	2.0
110-82-7	Cyclohexane	0.25	U	0.25	0.25	2.0
124-48-1	Dibromochloromethane	0.25	U	0.25	0.25	2.0
74-95-3	Dibromomethane	0.25	U	0.25	0.25	2.0
75-71-8	Dichlorodifluoromethane	0.25	U	0.25	0.25	2.0
108-20-3	Diisopropyl ether	0.50	U	0.50	0.50	2.0
64-17-5	Ethanol	2.5	فلر	L 2.5	2.5	10
100-41-4	Ethylbenzene	0.25	ប	0.25	0.25	2.0
76-14-2	Freon-114	0.25	U	0.25	0.25	2.0
87-68-3	Hexachlorobutadiene	0.25	U	0.25	0.25	2.0
98-82-8	Isopropylbenzene	0.25	U	0.25	0.25	2.0
179601-23-1	m,p-Xylene	0.50	U	0.50	0.50	4.0
79-20-9	Methyl Acetate	0.25	U	0.25	0.25	2.0
1634-04-4	Methyl tert-butyl ether	0.25	U	0.25	0.25	2.0
75-09-2	Methylene chloride	2.9	P	0.25	0.25	2.0
104-51-8	n-Butylbenzene	0.25	U	0.25	0.25	2.0
103-65-1	n-Propylbenzene	0.25	U	0.25	0.25	2.0
91-20-3	Naphthalene	0.25	U	0.25	0.25	2.0
95-47-6	o-Xylene	0.25	U	0.25	0.25	2.0
105-05-5	p-Diethylbenzene	0.25	U	0.25	0.25	2.0

forgal19

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

			MW - 8
Lab Name: <u>American Ana</u> <u>Laboratorie</u>	<u>alytical</u> Contract: <u>s,LLC.</u>		
Lab Code: <u>AAL</u>	ClientID: <u>Berninger</u>	SAS No.:	SDG No.: <u>1908001</u>
Matrix:	Liquid	Lab Sample ID:	<u>1908001-006A</u>
Sample wt/vol:	<u>5mL</u>	Lab File ID:	<u>V1-0016.D</u>
Level: (low/med)	LOW	Date Collected:	<u>7/31/2019 11:30 AM</u>
% Moisture: <u>N/A</u>		Date Received:	<u>8/1/2019 9:00 AM</u>
Extract Volume: 5000	<u>(µl)</u>	Date Prepped:	<u>8/8/2019 11:06 AM</u>
Seq Number: <u>810391</u>		Date Analyzed:	<u>8/8/2019 8:34 PM</u>
GC Column: <u>V1 06/10/</u>	2019 SN#1629116	Dilution Factor:	<u>1.00</u>
Column ID: 0.18(mm)		Batch ID/ Ext Mthd:	<u>22944/PT</u>

CAS NO.	COMPOUND	CONC.	UNITS: µg/1	ЬQ	DL	LOD	LOQ
622-96-8	p-Ethyltoluene		0.25	4	U 0.25	0.25	2.0
135-98-8	sec-Butylbenzene		0.25	U	0.25	0.25	2.0
100-42-5	Styrene		0.25	U	0.25	0.25	2.0
75-65-0	t-Butyl alcohol		2.5	U	2.5	2.5	10
98-06-6	tert-Butylbenzene		0.25	U	0.25	0.25	2.0
108-88-3	Toluene		0.25	U	0.25	0.25	2.0
156-60-5	trans-1,2-Dichloroethene		120		0.25	0.25	2.0
10061-02-6	trans-1,3-Dichloropropene		0.25	U	0.25	0.25	2.0
79-01-6	Trichloroethene		110		0.25	0.25	2.0
75-69-4	Trichlorofluoromethane		0.25	U	0.25	0.25	2.0
108-05-4	Vinyl acetate		0.25	U	0.25	0.25	2.0
75-01-4	Vinyl chloride		120		0.25	0.25	2.0
1330-20-7	Xylenes, Total		0.75	U	0.75	0.75	6.0
108-87-2	Methylcyclohexane		0.25	U	0.25	0.25	2.0
107-02-8	Acrolein		1.0	4	1.0	1.0	10
107-13-1	Acrylonitrile		0.25	U	0.25	0.25	2.0

013119 10
VOLATILE SW-846 METHOD 8260 CLIENT SAMPLE NO.

		d					MW-8	
Lab Name: <u>American An</u> Laboratorie	nalytical s, LLC.	Contract:						
Lab Code: <u>AAL</u>	ClientID:	<u>Berninger</u>	SAS 1	No.:		SDG	No.: <u>1</u>	908001
Matrix:	Liquid			Lab Samp	le ID:	190800	<u>1-006A</u>	
Sample wt/vol:	<u>5mL</u>			Lab Fi	le ID:	<u>V1-001</u>	<u>5.D</u>	
Level: (low/med) <u>LOW</u> Date Collected: <u>7/31/2019 11:30 AM</u>						<u>30 AM</u>		
<pre>% Moisture: N/A Date Received: 8/1/2019 9:00 AM</pre>								
Extract Volume: <u>5000(µl)</u> Date Prepped: <u>8/9/2019 8:02 AM</u>					AM			
Seq Number: <u>81157</u>	<u>1</u>			Date Ana	lyzed:	8/9/20	19 4:25	PM
GC Column: <u>V1 06/10</u>	/2019 SN#162	9116	D	ilution Fa	actor:	100.00		
Column ID: 0.18(mm	<u>)</u>		Batch	n ID/ Ext	Mthd:	22956/	PT	
CAS NO. COME	OUND	C	ONC. U	NITS: µg/	LQ	DL	LOD	LOQ
156-59-2 cis-1,	2-Dichloroether	ne		5500	D	25	25	200
127-18-4 Tetrac	hloroethene			270	D	25	25	200

VOLATILE SW-846 METHOD 8260 CLIENT SAMPLE NO.

_ , , ,				MW-N		
Lab Name: <u>American An</u> <u>Laboratorie</u>	<u>alytical</u> Con <u>s, LLC.</u>	ntract:	-			
Lab Code: <u>AAL</u>	ClientID: <u>Be</u>	rninger	SAS No.:	SDG No.: <u>1908001</u>		
Matrix:	<u>Liquid</u>		Lab Sample ID	: <u>1908001-007A</u>		
Sample wt/vol:	<u>5mL</u>		Lab File ID	: <u>V1-0017.D</u>		
Level: (low/med)	LOW		Date Collected	: <u>7/31/2019 12:00 PM</u>		
% Moisture: <u>N/A</u>			Date Received: <u>8/1/2019 9:00 AM</u>			
Extract Volume: <u>5000</u>	<u>(µl)</u>		Date Prepped	: <u>8/8/2019 11:06 AM</u>		
Seq Number: <u>810392</u>	_		Date Analyzed: <u>8/8/2019 9:04 PM</u>			
GC Column: <u>V1 06/10/</u>	2019 SN#1629116	<u>5</u>	Dilution Factor	: <u>1.00</u>		
Column ID: <u>0.18(mm)</u>	-		Batch ID/ Ext Mthd	: <u>22944/PT</u>		

CAS NO.	COMPOUND	CONC.	UNITS: µg/	ЬQ	DL	LOD	LOQ
630-20-6	1,1,1,2-Tetrachloroethane		0.25	U	0.25	0.25	2.0
71-55-6	1,1,1-Trichloroethane		0.25	U	0.25	0.25	2.0
79-34-5	1,1,2,2-Tetrachloroethane		0.25	υ	0.25	0.25	2.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroeth	ane	0.25	υ	0.25	0.25	2.0
79-00-5	1,1,2-Trichloroethane		0.25	U	0.25	0.25	2.0
75-34-3	1,1-Dichloroethane		0.25	U	0.25	0.25	2.0
75-35-4	1,1-Dichloroethene		0.25	Ŭ	0.25	0.25	2.0
563-58-6	1,1-Dichloropropene		0.25	υ	0.25	0.25	2.0
87-61-6	1,2,3-Trichlorobenzene		0.25	U	0.25	0.25	2.0
96-18-4	1,2,3-Trichloropropane		0.25	U	0.25	0.25	2.0
95-93-2	1,2,4,5-Tetramethylbenzene		0.25	U	0.25	0.25	2.0
120-82-1	1,2,4-Trichlorobenzene		0.25	υ	0.25	0.25	2.0
95-63-6	1,2,4-Trimethylbenzene		0.25	U	0.25	0.25	2.0
96-12-8	1,2-Dibromo-3-chloropropane		0.25	U	0.25	0.25	2.0
106-93-4	1,2-Dibromoethane		0.25	U	0.25	0.25	2.0
95-50-1	1,2-Dichlorobenzene		0.25	U	0.25	0.25	2.0
107-06-2	1,2-Dichloroethane		0.25	U	0.25	0.25	2.0
78-87-5	1,2-Dichloropropane		0.25	U	0.25	0.25	2.0
108-67-8	1,3,5-Trimethylbenzene		0.25	U	0.25	0.25	2.0
541-73-1	1,3-Dichlorobenzene		0.25	U	0.25	0.25	2.0
142-28-9	1,3-dichloropropane		0.25	U	0.25	0.25	2.0
106-46-7	1,4-Dichlorobenzene		0.25	U	0.25	0.25	2.0
123-91-1	1,4-Dioxane		0.25	U	0.25	0.25	1.0
594-20-7	2,2-Dichloropropane		0.25	ប	0.25	0.25	2.0
78-93-3	2-Butanone		0.50	U 💊	0.50	0.50	4.0
110-75-8	2-Chloroethyl vinyl ether		10	Ko	10	10	20
95-49-8	2-Chlorotoluene		0.25	U	0.25	0.25	2.0
591-78-6	2-Hexanone		0.50	υ	0.50	0.50	4.0
67-63-0	2-Propanol		0.25	U	0.25	0.25	2.0
106-43-4	4-Chlorotoluene		0.25	U	0.25	0.25	2.0
99-87-6	4-Isopropyltoluene		0.25	υ	0.25	0.25	2.0
108-10-1	4-Methyl-2-pentanone		0.50	υ	0.50	0.50	4.0
67-64-1	Acetone		18	R	5.0	5.0	10

SW8260C Jang19/19

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

			MW-N
Lab Name: <u>American</u> Laborator:	<u>nalytical</u> Contract: <u>es, LLC.</u>		
Lab Code: <u>AAL</u>	ClientID: <u>Berninge</u>	<u>r</u> SAS No.:	SDG No.: <u>1908001</u>
Matrix:	Liguid	Lab Sample 1D:	<u>AV0001-007A</u>
Sample wt/vol:	<u>5mL</u>	Lab File ID:	<u>V1-0017.D</u>
Level: (low/med)	LOW	Date Collected:	7/31/2019 12:00 PM
% Moisture: <u>N/A</u>		Date Received:	<u>8/1/2019 9:00 AM</u>
Extract Volume: 50	<u>00(µl)</u>	Date Prepped:	<u>8/8/2019 11:06 AM</u>
Seq Number: <u>8103</u>	<u>92</u>	Date Analyzed:	<u>8/8/2019 9:04 PM</u>
GC Column: <u>V1 06/1</u>	0/2019 SN#1629116	Dilution Factor:	1.00
Column ID: <u>0.18(m</u>	<u>m)</u>	Batch ID/ Ext Mthd:	<u>22944/PT</u>

CAS NO.	COMPOUND CONC.	UNITS: µg/1	L Q	DL	LOD	LOQ
71-43-2	Benzene	0.25	U	0.25	0.25	2.0
108-86-1	Bromobenzene	0.25	ប	0.25	0.25	2.0
74-97-5	Bromochloromethane	0.25	U	0.25	0.25	2.0
75-27-4	Bromodichloromethane	0.25	U	0.25	0.25	2.0
75-25-2	Bromoform	0.25	U	0.25	0.25	2.0
74-83-9	Bromomethane	0.25	U	0.25	0.25	2.0
75-15-0	Carbon disulfide	0.25	U	0.25	0.25	2.0
56-23-5	Carbon tetrachloride	0.25	U	0.25	0.25	2.0
108-90-7	Chlorobenzene	0.25	υ	0.25	0.25	2.0
75-45-6	Chlorodifluoromethane	0.25	U	0.25	0.25	2.0
75-00-3	Chloroethane	0.25	U	0.25	0.25	2.0
67-66-3	Chloroform	0.25	U	0.25	0.25	2.0
74-87-3	Chloromethane	0.25	U	0.25	0.25	2.0
156-59-2	cis-1,2-Dichloroethene	17		0.25	0.25	2.0
10061-01-5	cis-1,3-Dichloropropene	0.25	υ	0.25	0.25	2.0
110-82-7	Cyclohexane	0.25	U	0.25	0.25	2.0
124-48-1	Dibromochloromethane	0.25	ט	0.25	0.25	2.0
74-95-3	Dibromomethane	0.25	υ	0.25	0.25	2.0
75-71-8	Dichlorodifluoromethane	0.25	U	0.25	0.25	2.0
108-20-3	Diisopropyl ether	0.50	U	0.50	0.50	2.0
64-17-5	Ethanol	2.5	¢.	R 2.5	2.5	10
100-41-4	Ethylbenzene	0.25	U	0.25	0.25	2.0
76-14-2	Freon-114	0.25	υ	0.25	0.25	2.0
87~68-3	Hexachlorobutadiene	0.25	υ	0.25	0.25	2.0
98-82-8	Isopropylbenzene	0.25	U	0.25	0.25	2.0
179601-23-1	m,p-Xylene	0.50	υ	0.50	0.50	4.0
79-20-9	Methyl Acetate	0.25	U	0.25	0.25	2.0
1634-04-4	Methyl tert-butyl ether	0.25	U	0.25	0.25	2.0
75-09-2	Methylene chloride	2.8	A	- () 0.25	0.25	2.0
104-51-8	n-Butylbenzene	0.25	U	0.25	0.25	2.0
103-65-1	n-Propylbenzene	0.25	U	0.25	0.25	2.0
91-20-3	Naphthalene	0.25	υ	0.25	0.25	2.0
95-47-6	o-Xylene	0.25	υ	0.25	0.25	2.0

19/19

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

				MW-N			
Lab Name: <u>American</u> Laborato	<u>Analytical</u> Con ries, LLC.	tract:					
Lab Code: <u>AAL</u>	ClientID: Ber	rninger SAS No.:	SDG	No.: <u>1908001</u>			
Matrix:	<u>Liquid</u>	Lab S	Sample 1D: <u>190800</u>	L-00'/A			
Sample wt/vol:	<u>5mL</u>	Lab	o File ID: <u>V1-001</u>	<u>1.D</u>			
Level: (low/med)	LOW	Date (Collected: <u>7/31/20</u>)19 12:00 PM			
% Moisture: <u>N/A</u>		Date	Received: <u>8/1/20</u>	19 9:00 AM			
Extract Volume: 5	<u>000(µl)</u>	Date	Date Prepped: <u>8/8/2019 11:06</u>				
Seq Number: 810	<u>392</u>	Date	Analyzed: <u>8/8/20</u>	9 9:04 PM			
GC Column: <u>V1 06</u> /	10/2019 SN#1629116	Dilutic	Dilution Factor: <u>1.00</u>				
Column ID: <u>0.18</u>	<u>mm)</u>	Batch ID/	Ext Mthd: 22944/1	<u>?T</u>			

CAS NO.	COMPOUND	CONC.	UNITS: µg,	/L Q	DL	LOD	LOQ
105-05-5	p-Diethylbenzene		0.25	5 U	0.25	0.25	2.0
622-96-8	p-Ethyltoluene		0.25	5 1	V.T 0.25	0.25	2.0
135-98-8	sec-Butylbenzene		0.25	5 U	0.25	0.25	2.0
100-42-5	Styrene		0.25	5 U	0.25	0.25	2.0
75-65-0	t-Butyl alcohol		2.5	5 U	2.5	2.5	10
98-06-6	tert-Butylbenzene		0.25	5 U	0.25	0.25	2.0
108-88-3	Toluene		0.3	Bo	0.25	0.25	2.0
156-60-5	trans-1,2-Dichloroethene		0.25	5 U	0.25	0.25	2.0
10061-02-6	trans-1,3-Dichloropropene		0.25	5 U	0.25	0.25	2.0
79-01-6	Trichloroethene		13	5	0.25	0.25	2.0
75-69-4	Trichlorofluoromethane		0.25	5 U	0.25	0.25	2.0
108-05-4	Vinyl acetate		0.25	5 U	0.25	0.25	2.0
75-01-4	Vinyl chloride		0.25	5 U	0.25	0.25	2.0
1330-20-7	Xylenes, Total		0.75	5 U	0.75	0.75	6.0
108-87-2	Methylcyclohexane		0.25	5 U	0.25	0.25	2.0
107-02-8	Acrolein		1.0		R 1.0	1.0	10
107-13-1	Acrylonitrile		0.25	5 U	0.25	0.25	2.0

[q/19

VOLATILE SW-846 METHOD 8260 CLIENT SAMPLE NO.

Lab Name: <u>American An</u> Laboratorie	<u>alytical</u> s. LLC.	Contract:						MW-N	
Lab Code: <u>AAL</u>	ClientID:	Berninger	SAS	No.:			SDG 1	No.: <u>1</u>	908001
Matrix:	<u>Liquid</u>			Lab S	ample	ID:	<u>1908001</u>	-007A	
Sample wt/vol:	<u>5mL</u>			Lab	File	ID:	<u>V1-0016</u>	.D	
Level: (low/med)	LOW			Date C	Collect	ed:	7/31/20	19 12:0	0 PM
% Moisture: <u>N/A</u>					Receiv	ved:	<u>8/1/201</u>	9 9:00	AM
Extract Volume: 5000	<u>(µl)</u>			Date	Prepp	ed:	8/9/201	9 8:02	AM
Seq Number: <u>811572</u>	-			Date	Analyz	zed:	8/9/201	9 4:56	PM
GC Column: <u>V1 06/10/</u>	2019 SN#162	9116	D	ilutic	on Fact	cor:	100.00		
Column ID: 0.18(mm)	-		Batc	h ID/	Ext Mt	hd:	<u>22956/P</u>	T	
CAS NO. COMPO	DUND		CONC. U	NITS:	µg/L	Q	DL	LOD	LOQ
127-18-4 Tetrach	loroethene				1600	D	25	25	200

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

Tab Maraa	Amorican Analytical Contract.			Trip Blank			
Lab Name:	American Ana Laboratories	<u>alytical</u> 3, LLC.	Contract:				
Lab Code: <u>A</u>	AAL	ClientID:	<u>Berninger</u>	SAS No.:	SDG No.: <u>1908001</u>		
Matrix:		<u>Liquid</u>		Lab Sample ID:	<u>1908001-008A</u>		
Matrix: Liquid Lab Sample ID: 1908001-008A Sample wt/vol: 5mL Lab File ID: V1-0007.D Level: (low/med) LOW Date Collected: 7/31/2019 12:00 AM & Moisture: N/A Date Received: 8/1/2019 9:00 AM							
Level: (low/med)	LOW		Date Collected:	<u>7/31/2019 12:00 AM</u>		
<pre>% Moisture:</pre>	<u>N/A</u>			Date Received:	<u>8/1/2019 9:00 AM</u>		
Extract Vol	ume: <u>5000</u>	(<u>µl)</u>		Date Prepped: <u>8/8/2019 11:06</u>			
Seq Number: <u>810382</u>				Date Analyzed: <u>8/8/2019 3:57 1</u>			
GC Column: <u>V1 06/10/2019 SN#1629116</u>				Dilution Factor: <u>1.00</u>			
Column ID:	<u>0.18(mm)</u>			Batch ID/ Ext Mthd:	<u>22944/PT</u>		

CAS NO.	COMPOUND	CONC.	UNITS: µg/	L Q	DL	LOD	LOQ
630-20-6	1,1,1,2-Tetrachloroethane		0.25	U	0.25	0.25	2.0
71-55-6	1,1,1-Trichloroethane		0.25	U	0.25	0.25	2.0
79-34-5	1,1,2,2-Tetrachloroethane		0.25	U	0.25	0.25	2.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroet	hane	0.25	U	0.25	0.25	2.0
79-00-5	1,1,2-Trichloroethane		0.25	υ	0.25	0.25	2.0
75-34-3	1,1-Dichloroethane		0.25	U	0.25	0.25	2.0
75-35-4	1,1-Dichloroethene		0.25	U	0.25	0.25	2.0
563-58-6	1,1-Dichloropropene		0.25	Ŭ	0.25	0.25	2.0
87-61-6	1,2,3-Trichlorobenzene		0.48	Bđ	0.25	0.25	2.0
96-18-4	1,2,3-Trichloropropane		0.25	U	0.25	0.25	2.0
95-93 - 2	1,2,4,5-Tetramethylbenzene		0.25	U	0.25	0.25	2.0
120-82-1	1,2,4-Trichlorobenzene		0.25	U	0.25	0.25	2.0
95-63-6	1,2,4-Trimethylbenzene		0.25	U	0.25	0.25	2.0
96-12-8	1,2-Dibromo-3-chloropropane		0.25	U	0.25	0.25	2.0
106-93-4	1,2-Dibromoethane		0.25	U	0.25	0.25	2.0
95-50-1	1,2-Dichlorobenzene		0.25	U	0.25	0.25	2.0
107-06-2	1,2-Dichloroethane		0.25	U	0.25	0.25	2.0
78-87-5	1,2-Dichloropropane		0.25	U	0.25	0.25	2.0
108-67-8	1,3,5-Trimethylbenzene		0.25	U	0.25	0.25	2.0
541-73 - 1	1,3-Dichlorobenzene		0.25	U	0.25	0.25	2.0
142-28-9	1,3-dichloropropane		0.25	U	0.25	0.25	2.0
106-46-7	1,4-Dichlorobenzene		0.25	υ	0.25	0.25	2.0
123-91-1	1,4-Dioxane		0.25	υ	0.25	0.25	1.0
594-20-7	2,2-Dichloropropane		0.25	υ	0.25	0.25	2.0
78-93-3	2-Butanone		0.50	υ	0.50	0.50	4.0
110-75-8	2-Chloroethyl vinyl ether		10	RU	- 10	10	20
95-49-8	2-Chlorotoluene		0.25	U	0.25	0.25	2.0
591-78-6	2-Hexanone		0.50	U	0.50	0.50	4.0
67-63-0	2-Propanol		0.25	U	0.25	0.25	2.0
106-43-4	4-Chlorotoluene		0.25	ΰ	0.25	0.25	2.0
99-87-6	4-Isopropyltoluene		0.25	U	0.25	0.25	2.0
108-10-1	4-Methyl-2-pentanone		0.50	U	0.50	0.50	4.0
67-64-1	Acetone		8.8	-BJ	VJ 5.0	5.0	10

orgialla

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

				Trip Blank
Lab Name: <u>American An</u> Laboratorie	<u>nalytical</u> es, LLC.	Contract:		
Lab Code: <u>AAL</u>	ClientID:	<u>Berninger</u>	SAS No.:	SDG No.: <u>1908001</u>
Matrix:	<u>Liquid</u>		Lab Sample ID:	<u>1908001-008A</u>
Sample wt/vol:	<u>5mL</u>		Lab File ID:	<u>V1-0007.D</u>
Level: (low/med)	TOM		Date Collected:	<u>7/31/2019 12:00 AM</u>
% Moisture: <u>N/A</u>			Date Received:	<u>8/1/2019 9:00 AM</u>
Extract Volume: 500	<u>)(µ1)</u>		Date Prepped:	<u>8/8/2019 11:06 AM</u>
Seq Number: <u>81038</u>	2		Date Analyzed:	<u>8/8/2019 3:57 PM</u>
GC Column: <u>V1 06/10</u>	/2019 SN#1629	9116	Dilution Factor:	1.00
Column ID: <u>0.18(mm</u>	<u>}</u>		Batch ID/ Ext Mthd:	<u>22944/PT</u>

CAS NO.	COMPOUND	CONC.	UNITS: µg/	L Q	DL	LOD	LOQ
71-43-2	Benzene		0.25	U	0.25	0.25	2.0
108-86-1	Bromobenzene		0.25	U	0.25	0.25	2.0
74-97-5	Bromochloromethane		0.25	U	0.25	0.25	2.0
75-27-4	Bromodichloromethane		0.25	U	0.25	0.25	2.0
75-25-2	Bromoform		0.25	U	0.25	0.25	2.0
74-83-9	Bromomethane		0.25	U	0.25	0.25	2.0
75-15-0	Carbon disulfide		0.25	U	0.25	0.25	2.0
56-23-5	Carbon tetrachloride		0.25	υ	0.25	0.25	2.0
108-90-7	Chlorobenzene		0.25	U	0.25	0.25	2.0
75-45-6	Chlorodifluoromethane		0.25	U	0.25	0.25	2.0
75-00-3	Chloroethane		0.25	U	0.25	0.25	2.0
67-66-3	Chloroform		0.25	U	0.25	0.25	2.0
74-87-3	Chloromethane		0.25	U	0.25	0.25	2.0
156-59-2	cis-1,2-Dichloroethene		0.25	U	0.25	0.25	2.0
10061-01-5	cis-1,3-Dichloropropene		0.25	U	0.25	0.25	2.0
110-82-7	Cyclohexane		0.25	U	0.25	0.25	2.0
124-48-1	Dibromochloromethane		0.25	U	0.25	0.25	2.0
74-95-3	Dibromomethane		0.25	U	0.25	0.25	2.0
75-71-8	Dichlorodifluoromethane		0.25	U	0.25	0.25	2.0
108-20-3	Diisopropyl ether		0.50	U	0.50	0.50	2.0
64-17-5	Ethanol		2.5	4	R 2.5	2.5	10
100-41-4	Ethylbenzene		0.25	U	0.25	0.25	2.0
76-14-2	Freon-114	_	0.25	U	0.25	0.25	2.0
87-68-3	Hexachlorobutadiene		0.25	U	0.25	0.25	2.0
98-82-8	Isopropylbenzene		0.25	U	0.25	0.25	2.0
179601-23-1	m,p-Xylene		0.50	U	0.50	0.50	4.0
79-20-9	Methyl Acetate		0.25	ט	0.25	0.25	2.0
1634-04-4	Methyl tert-butyl ether		0.25	U	0.25	0.25	2.0
75-09-2	Methylene chloride		3.5	Ð	0.25	0.25	2.0
104-51-8	n-Butylbenzene		0.25	U	0.25	0.25	2.0
103-65-1	n-Propylbenzene		0.25	U	0.25	0.25	2.0
91-20-3	Naphthalene		0.25	U	0.25	0.25	2.0
95-47-6	o-Xylene		0.25	U	0.25	0.25	2.0

2/2/9/19

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

T.1. M			Trip Blank
Lab Name: <u>American An</u> Laboratorie	<u>alytical</u> Contract: <u>s. LLC.</u>		
Lab Code: <u>AAL</u>	ClientID: <u>Berninger</u>	SAS No.:	SDG No.: <u>1908001</u>
Matrix:	Liquid	Lab Sample ID:	<u>1908001-008A</u>
Sample wt/vol:	<u>5mL</u>	Lab File ID:	<u>V1-0007.D</u>
Level: (low/med)	LOW	Date Collected:	<u>7/31/2019 12:00 AM</u>
% Moisture: <u>N/A</u>		Date Received:	<u>8/1/2019 9:00 AM</u>
Extract Volume: 5000	<u>(µl)</u>	Date Prepped:	<u>8/8/2019 11:06 AM</u>
Seq Number: <u>810382</u>	<u>1</u>	Date Analyzed:	<u>8/8/2019 3:57 PM</u>
GC Column: <u>V1 06/10/</u>	<u>2019 SN#1629116</u>	Dilution Factor:	1.00
Column ID: <u>0.18(mm)</u>	-	Batch ID/ Ext Mthd:	<u>22944/PT</u>

CAS NO,	COMPOUND	CONC.	UNITS: µg/	L Q	DL	LOD	LOQ
105-05-5	p-Diethylbenzene		0.25	U	0.25	0.25	2.0
622-96-8	p-Ethyltoluene		0.25	4	0.25	0.25	2.0
135-98-8	sec-Butylbenzene		0.25	U	0.25	0.25	2.0
100-42-5	Styrene		0.25	ט	0.25	0.25	2.0
75-65-0	t-Butyl alcohol		2.5	U	2.5	2.5	10
98-06-6	tert-Butylbenzene		0.25	ט	0.25	0.25	2.0
127-18-4	Tetrachloroethene		0.25	U	0.25	0.25	2.0
108-88-3	Toluene		0.25	U	0.25	0.25	2.0
156-60-5	trans-1,2-Dichloroethene		0.25	U	0.25	0.25	2.0
10061-02-6	trans-1,3-Dichloropropene		0.25	U	0.25	0.25	2.0
79-01-6	Trichloroethene		0.25	U	0.25	0.25	2.0
75-69-4	Trichlorofluoromethane		0.25	U	0.25	0.25	2.0
108-05-4	Vinyl acetate		0.25	ប	0.25	0.25	2.0
75-01-4	Vinyl chloride		0.25	U	0.25	0.25	2.0
1330-20-7	Xylenes, Total		0.75	ប	0.75	0.75	6.0
108-87-2	Methylcyclohexane		0.25	U	0.25	0.25	2.0
107-02-8	Acrolein		1.0	1	R 1.0	1.0	10
107-13-1	Acrylonitrile		0.25	U	0.25	0.25	2.0

1013/19

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO

.

Tal Maria		d 1 1		Field Blank
Lab Name: <u>American An</u> Laboratorie	<u>alytical</u> s, LLC.	Contract:		
Lab Code: <u>AAL</u>	ClientID:	<u>Berninger</u>	SAS No.:	SDG No.: <u>1908001</u>
Matrix:	Liquid		Lab Sample ID	: <u>1908001-009A</u>
Sample wt/vol:	<u>5mL</u>		Lab File ID	: <u>V1-0008.D</u>
Level: (low/med)	LOW		Date Collected	<u>7/31/2019 12:00 AM</u>
% Moisture: <u>N/A</u>			Date Received	: <u>8/1/2019 9:00 AM</u>
Extract Volume: 5000	<u>(µl)</u>		Date Prepped	: <u>8/8/2019 11:06 AM</u>
Seq Number: <u>810383</u>	L)		Date Analyzed	: <u>8/8/2019 4:28 PM</u>
GC Column: <u>V1 06/10/</u>	2019 SN#1629	116	Dilution Factor	: <u>1.00</u>
Column ID: <u>0.18(mm)</u>	_		Batch ID/ Ext Mthd	: <u>22944/PT</u>

CAS NO.	COMPOUND CONC.	UNITS: µg/	L Q	DL	LOD	LOQ
630-20-6	1,1,1,2-Tetrachloroethane	0.25	U	0.25	0.25	2.0
71-55-6	1,1,1-Trichloroethane	0.25	U	0.25	0.25	2.0
79-34-5	1,1,2,2-Tetrachloroethane	0.25	U	0.25	0.25	2.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.25	U	0.25	0.25	2.0
79-00-5	1,1,2-Trichloroethane	0.25	U	0.25	0.25	2.0
75-34-3	1,1-Dichloroethane	0.25	U	0.25	0.25	2.0
75-35-4	1,1-Dichloroethene	0.25	U	0.25	0.25	2.0
563-58-6	1,1-Dichloropropene	0.25	U	0.25	0.25	2.0
87-61-6	1,2,3-Trichlorobenzene	0.25	υ	0.25	0.25	2.0
96-18-4	1,2,3-Trichloropropane	0.25	U	0.25	0.25	2.0
95-93-2	1,2,4,5-Tetramethylbenzene	0.25	U	0.25	0.25	2.0
120-82-1	1,2,4-Trichlorobenzene	0.25	U	0.25	0.25	2.0
95-63-6	1,2,4-Trimethylbenzene	0.25	U	0.25	0.25	2.0
96-12-8	1,2-Dibromo-3-chloropropane	0.25	U	0.25	0.25	2.0
106-93-4	1,2-Dibromoethane	0.25	υ	0.25	0.25	2.0
95-50-1	1,2-Dichlorobenzene	0.25	υ	0.25	0.25	2.0
107-06-2	1,2-Dichloroethane	0.25	U	0.25	0.25	2.0
78-87-5	1,2-Dichloropropane	0.25	U	0.25	0.25	2.0
108-67-8	1,3,5-Trimethylbenzene	0.25	U	0.25	0.25	2.0
541-73-1	1,3-Dichlorobenzene	0.25	U	0.25	0.25	2.0
142-28-9	1,3-dichloropropane	0.25	U	0.25	0.25	2.0
106-46-7	1,4-Dichlorobenzene	0.25	U	0.25	0.25	2.0
123-91-1	1,4-Dioxane	0.25	U	0.25	0.25	1.0
594-20-7	2,2-Dichloropropane	0.25	U	0.25	0.25	2.0
78-93-3	2-Butanone	0.50	U	0.50	0.50	4.0
110-75-8	2-Chloroethyl vinyl ether	10	Rø	10	10	20
95-49-8	2-Chlorotoluene	0.25	U	0.25	0.25	2.0
591-78-6	2-Hexanone	0.50	U	0.50	0.50	4.0
67-63-0	2-Propanol	0.25	U	0.25	0.25	2.0
106-43-4	4-Chlorotoluene	0.25	U	0.25	0.25	2.0
99-87-6	4-Isopropyltoluene	0.25	U	0.25	0.25	2.0
108-10-1	4-Methyl-2-pentanone	0.50	U	0.50	0.50	4.0
71-43-2	Benzene	0.25	U	0.25	0.25	2.0

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

			Field Blank
Lab Name: <u>American An</u> Laboratorie	<u>alytical</u> Contrac <u>s, LLC.</u>	ct:	
Lab Code: <u>AAL</u>	ClientID: <u>Bernin</u>	lger SAS No.:	SDG No.: <u>1908001</u>
Matrix:	<u>Liquid</u>	Lab Sample ID:	<u>1908001-009A</u>
Sample wt/vol:	<u>5mL</u>	Lab File ID:	<u>V1-0008.D</u>
Level: (low/med)	LOW	Date Collected:	<u>7/31/2019 12:00 AM</u>
% Moisture: <u>N/A</u>		Date Received:	<u>8/1/2019 9:00 AM</u>
Extract Volume: 5000	<u>(µl)</u>	Date Prepped:	<u>8/8/2019 11:06 AM</u>
Seq Number: <u>810383</u>	L	Date Analyzed:	<u>8/8/2019 4:28 PM</u>
GC Column: <u>V1 06/10</u>	2019 SN#1629116	Dilution Factor:	1.00
Column ID: <u>0.18(mm</u>)	-	Batch ID/ Ext Mthd:	<u>22944/PT</u>

CAS NO.	COMPOUND	CONC.	UNITS: µg/	L Q	DL	LOD	LOQ
108-86-1	Bromobenzene		0.25	U	0.25	0.25	2.0
74-97-5	Bromochloromethane		0.25	U	0.25	0.25	2.0
75-27-4	Bromodichloromethane		0.25	U	0.25	0.25	2.0
75-25-2	Bromoform		0.25	U	0.25	0.25	2.0
74-83-9	Bromomethane		0.25	U	0.25	0.25	2.0
75-15-0	Carbon disulfide		0.25	U	0.25	0.25	2.0
56-23-5	Carbon tetrachloride		0.25	U	0.25	0.25	2.0
108-90-7	Chlorobenzene		0.25	U	0.25	0.25	2.0
75-45-6	Chlorodifluoromethane		0.25	U	0.25	0.25	2.0
75-00-3	Chloroethane		0.25	U	0.25	0.25	2.0
67-66-3	Chloroform		0.25	U	0.25	0.25	2.0
74-87-3	Chloromethane		0.25	U	0.25	0.25	2.0
156-59-2	cis-1,2-Dichloroethene		0.25	U	0.25	0.25	2.0
10061-01-5	cis-1,3-Dichloropropene		0.25	U	0.25	0.25	2.0
110-82-7	Cyclohexane		0.25	U	0.25	0.25	2.0
124-48-1	Dibromochloromethane		0.25	U	0.25	0.25	2.0
74-95-3	Dibromomethane		0.25	U	0.25	0.25	2.0
75-71-8	Dichlorodifluoromethane		0.25	U	0.25	0.25	2.0
108-20-3	Diisopropyl ether		0.50	U	0.50	0.50	2.0
64-17-5	Ethanol		2.5	للر	2.5	2.5	10
100-41-4	Ethylbenzene		0.33	J	0.25	0.25	2.0
76-14-2	Freon-114		0.25	U	0.25	0.25	2.0
87-68-3	Hexachlorobutadiene		0.25	U	0.25	0.25	2.0
98-82-8	Isopropylbenzene		0.25	ប	0.25	0.25	2.0
179601-23-1	m,p-Xylene		1.2	J	0.50	0.50	4.0
79-20-9	Methyl Acetate		0.25	ប	0.25	0.25	2.0
1634-04-4	Methyl tert-butyl ether		0.25	ט	0.25	0.25	2.0
75-09-2	Methylene chloride		3.0	~*	0.25	0.25	2.0
104-51-8	n-Butylbenzene		0.25	ט	0.25	0.25	2.0
103-65-1	n-Propylbenzene		0.25	U	0.25	0.25	2.0
91-20-3	Naphthalene		0.25	U	0.25	0.25	2.0
95-47-6	o-Xylene		0.50	J	0.25	0.25	2.0
105-05-5	p-Diethylbenzene		0.25	U	0.25	0.25	2.0

SW8260C 8019/19/19

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

					Field Blank
Lab Name:	American Ana Laboratories	alytical s, LLC.	Contract:		
Lab Code:	AAL	ClientID:	<u>Berninger</u>	SAS No.:	SDG No.: <u>1908001</u>
Matrix:		Liquid		Lab Sample ID	<u> 1908001-009A</u>
Sample wt/	vol:	<u>5mL</u>		Lab File ID	: <u>V1-0008.D</u>
Level:	(low/med)	LOW		Date Collected	: <u>7/31/2019 12:00 AM</u>
% Moisture	: <u>N/A</u>			Date Received	<u>8/1/2019 9:00 AM</u>
Extract Vo	lume: <u>5000</u>	<u>(µl)</u>		Date Prepped	: <u>8/8/2019 11:06 AM</u>
Seq Number	: <u>810383</u>			Date Analyzed	<u>8/8/2019 4:28 PM</u>
GC Column:	<u>V1 06/10/</u>	2019 SN#1629	9116	Dilution Factor	: <u>1.00</u>
Column ID:	<u>0.18(mm)</u>			Batch ID/ Ext Mthd	: <u>22944/PT</u>

CAS NO.	COMPOUND	CONC.	UNITS: µg/	ЬQ	DL	LOD	LOQ
622-96-8	p-Ethyltoluene		0.25	-0	UT0.25	0.25	2.0
135-98-8	sec-Butylbenzene		0.25	U	0.25	0.25	2.0
100-42-5	Styrene		0.25	U	0.25	0.25	2.0
75-65-0	t-Butyl alcohol		2.5	U	2.5	2.5	10
98-06-6	tert-Butylbenzene		0.25	U	0.25	0.25	2.0
127-18-4	Tetrachloroethene		0.25	U	0.25	0.25	2.0
108-88-3	Toluene		0.25	υ	0.25	0.25	2.0
156-60-5	trans-1,2-Dichloroethene		0.25	υ	0.25	0.25	2.0
10061-02-6	trans-1,3-Dichloropropene		0.25	υ	0.25	0.25	2.0
79-01-6	Trichloroethene		0.25	U	0.25	0.25	2.0
75-69-4	Trichlorofluoromethane		0.25	U	0.25	0.25	2.0
108-05-4	Vinyl acetate		0.25	U	0.25	0.25	2.0
75-01-4	Vinyl chloride		0.25	U	0.25	0.25	2.0
1330-20-7	Xylenes, Total		1.7	J	0.75	0.75	6.0
108-87-2	Methylcyclohexane		0.25	U	0.25	0.25	2.0
107-02-8	Acrolein		1.0	-7	R 1.0	1.0	10
107-13-1	Acrylonitrile		0.25	U	0.25	0.25	2.0

80,613/19

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

				Field Blank
Lab Name: <u>American Ar</u> Laboratorie	alytical s, LLC.	Contract:	_	
Lab Code: <u>AAL</u>	ClientID:	<u>Berninge</u> :	<u>r</u> SAS No.:	SDG No.: <u>1908001</u>
Matrix:	<u>Liquid</u>		Lab Sample ID	: <u>1908001-009A</u>
Sample wt/vol:	<u>5mL</u>		Lab File ID	: <u>V1-0007.D</u>
Level: (low/med)	LOW		Date Collected	: <u>7/31/2019 12:00 AM</u>
% Moisture: <u>N/A</u>			Date Received	: <u>8/1/2019 9:00 AM</u>
Extract Volume: 5000	<u>)(µl)</u>		Date Prepped	: <u>8/9/2019 8:02 AM</u>
Seq Number: <u>81156</u>	3		Date Analyzed	: <u>8/9/2019 12:20 PM</u>
GC Column: <u>V1 06/10</u>	/2019 SN#162	9116	Dilution Factor	: <u>1.00</u>
Column ID: <u>0.18(mm</u>)		Batch ID/ Ext Mthd	: <u>22956/PT</u>
CAS NO. COMP	OUND		CONC. UNITS: µg/L Q	DL LOD LOQ
67-64-1 Aceton	e		46 -5	5.0 5.0 10

 $\left(\hat{s} \right)$

80/9/19

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

		GW-4 @ 5-9'
<u>nalytical</u> Contract: <u>es, LLC.</u>		
ClientID: <u>Berninger</u>	SAS No.:	SDG No.: <u>1908134</u>
<u>Liquid</u>	Lab Sample ID:	<u>1908134-001A</u>
<u>5mL</u>	Lab File ID:	<u>V2-0066.D</u>
LOW	Date Collected:	<u>8/15/2019 8:00 AM</u>
	Date Received:	<u>8/15/2019 4:20 PM</u>
<u>0(µl)</u>	Date Prepped:	<u>8/23/2019 1:50 PM</u>
<u>57</u>	Date Analyzed:	<u>8/24/2019 9:04 PM</u>
-19 SN#1629117	Dilution Factor:	1.00
<u>n)</u>	Batch ID/ Ext Mthd:	<u>23128/PT</u>
	nalytical Contract: es, LLC. ClientID: Berninger Liquid 5mL LOW 0 (µl) 57 -19 SN#1629117 n)	nalytical es, LLC.Contract: BerningerClientID:BerningerSAS No.:LiquidLab Sample ID: Lab File ID: Date Collected:5mLDate Collected: Date Received:10(µl)Date Prepped: Date Analyzed:57Date Analyzed: Date Analyzed:-19 SN#1629117Dilution Factor: Batch ID/ Ext Mthd:

CAS NO.	COMPOUND CONC	. UNITS: µg/	L Q	DL	LOD	LOQ
630-20-6	1,1,1,2-Tetrachloroethane	0.25	U	0.25	0.25	2.0
71-55-6	1,1,1~Trichloroethane	0.25	U	0.25	0.25	2.0
79-34-5	1,1,2,2-Tetrachloroethane	0.25	U	0.25	0.25	2.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.25	U	0.25	0.25	2.0
79-00-5	1,1,2-Trichloroethane	0.25	U	0.25	0.25	2.0
75-34-3	1,1-Dichloroethane	0.25	U	0.25	0.25	2.0
75-35-4	1,1-Dichloroethene	2.1		0.25	0.25	2.0
563-58-6	1,1-Dichloropropene	0.25	U	0.25	0.25	2.0
87-61-6	1,2,3-Trichlorobenzene	0.25	U	0.25	0.25	2.0
96-18-4	1,2,3-Trichloropropane	0.25	υ	0.25	0.25	2.0
95-93-2	1,2,4,5-Tetramethylbenzene	0.25	υ	0.25	0.25	2.0
120-82-1	1,2,4-Trichlorobenzene	0.25	U	0.25	0.25	2.0
95-63-6	1,2,4-Trimethylbenzene	0.25	υ	0.25	0.25	2.0
96-12-8	1,2-Dibromo-3-chloropropane	0.25	U	0.25	0.25	2.0
106-93-4	1,2-Dibromoethane	0.25	U	0.25	0.25	2.0
95-50-1	1,2-Dichlorobenzene	0.25	U	0.25	0.25	2.0
107-06-2	1,2-Dichloroethane	0.25	U	0.25	0.25	2.0
78-87-5	1,2-Dichloropropane	0.25	U	0.25	0.25	2.0
108-67-8	1,3,5-Trimethylbenzene	0.25	υ	0.25	0.25	2.0
541-73-1	1,3-Dichlorobenzene	0.25	U	0.25	0.25	2.0
142-28-9	1,3-dichloropropane	0.25	υ	0.25	0.25	2.0
106-46-7	1,4-Dichlorobenzene	0.25	υ	0.25	0.25	2.0
123-91-1	1,4-Dioxane	0.25	ប	0.25	0.25	1.0
594-20-7	2,2-Dichloropropane	0.25	U	0.25	0.25	2,0
78-93-3	2-Butanone	0.50	U	0.50	0.50	4.0
110-75-8	2-Chloroethyl vinyl ether	10	KO	10	10	20
95-49-8	2-Chlorotoluene	0.25	U	0.25	0.25	2.0
591-78-6	2-Hexanone	0.50	U	0.50	0.50	4.0
67-63-0	2-Propanol	0.25	U	0.25	0.25	2.0
106-43-4	4-Chlorotoluene	0.25	U	0.25	0.25	2.0
99-87-6	4-Isopropyltoluene	0.25	ΰ	0.25	0.25	2.0
108-10-1	4-Methyl-2-pentanone	0.50	U	0.50	0.50	4.0
67-64-1	Acetone	17	B	5.0	5.0	10

for 19/9/19

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

				GW-4 @ 5-9'
Lab Name: <u>American An</u> Laboratorie	<u>alytical</u> s, LLC.	Contract:		
Lab Code: <u>AAL</u>	ClientID:	<u>Berninger</u>	SAS No.:	SDG No.: <u>1908134</u>
Matrix:	Liquid		Lab Sample ID:	<u>1908134-001A</u>
Sample wt/vol:	<u>5mL</u>		Lab File ID:	<u>V2-0066.D</u>
Level: (low/med)	LOW		Date Collected:	8/15/2019 8:00 AM
% Moisture: <u>N/A</u>			Date Received:	<u>8/15/2019 4:20 PM</u>
Extract Volume: <u>5000</u>	<u>(µl)</u>		Date Prepped:	8/23/2019 1:50 PM
Seq Number: <u>822057</u>	-		Date Analyzed:	<u>8/24/2019 9:04 PM</u>
GC Column: <u>V2 08-01-</u>	19 SN#16291	17	Dilution Factor:	1.00
Column ID: 0.18(mm)	_		Batch ID/ Ext Mthd:	<u>23128/PT</u>

CAS NO.	COMPOUND CONC	. UNITS: $\mu g/$	L Q	DL	LOD	LOQ
71-43-2	Benzene	0.25	U	0.25	0.25	2.0
108-86-1	Bromobenzene	0.25	U	0.25	0.25	2.0
74-97-5	Bromochloromethane	0.25	U	0.25	0.25	2.0
75-27-4	Bromodichloromethane	0.25	U	0.25	0.25	2.0
75-25-2	Bromoform	0.25	ប	0.25	0.25	2.0
74-83-9	Bromomethane	0.25	U	0.25	0.25	2.0
75-15-0	Carbon disulfide	0.25	U	0.25	0.25	2.0
56-23-5	Carbon tetrachloride	0.25	U	0.25	0.25	2.0
108-90-7	Chlorobenzene	0.25	υ	0.25	0.25	2.0
75-45-6	Chlorodifluoromethane	0.25	U	0.25	0.25	2.0
75-00-3	Chloroethane	0.25	ד	0.25	0.25	2.0
67-66-3	Chloroform	0.25	υ	0.25	0.25	2.0
74-87-3	Chloromethane	0.25	U	0.25	0.25	2.0
10061-01-5	cis-1,3-Dichloropropene	0.25	υ	0.25	0.25	2.0
110-82-7	Cyclohexane	0.25	υ	0.25	0.25	2.0
124-48-1	Dibromochloromethane	0.25	U	0.25	0.25	2.0
74-95-3	Dibromomethane	0.25	U	0.25	0.25	2.0
75-71-8	Dichlorodifluoromethane	0.25	U	0.25	0.25	2.0
108-20-3	Diisopropyl ether	0.50	ប	0.50	0.50	2.0
64-17-5	Ethanol	2.5	Je	C 2.5	2.5	10
100-41-4	Ethylbenzene	0.25	ប	0.25	0.25	2.0
76-14-2	Freon-114	0.25	U	0.25	0.25	2.0
87-68-3	Hexachlorobutadiene	0.25	υ	0.25	0.25	2.0
98-82-8	Isopropylbenzene	0.25	U	0.25	0.25	2.0
179601-23-1	m,p-Xylene	0.50	U	0.50	0.50	4.0
79-20-9	Methyl Acetate	0.25	U	0.25	0.25	2.0
1634-04-4	Methyl tert-butyl ether	0.25	U	0.25	0.25	2.0
75-09-2	Methylene chloride	6.4	P	10.25	0.25	2.0
104-51-8	n-Butylbenzene	0.25	U	0.25	0.25	2.0
103-65-1	n-Propylbenzene	0.25	U	0.25	0.25	2.0
91-20-3	Naphthalene	0.25	U	0.25	0.25	2.0
95-47-6	o-Xylene	0.25	U	0.25	0.25	2.0
105-05-5	p-Diethylbenzene	0.25	U	0.25	0.25	2.0

SW8260C Jang19/19

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

								G₩-4	1	
Lab Name:	<u>American Ana</u> Laboratorie	<u>alytical</u> s <u>, LLC.</u>	Contract:			-				
Lab Code:	AAL	ClientID:	<u>Berninger</u>	SA	S No.:			SDG No	D.: <u>19</u>	908134
Matrix:		<u>Liquid</u>			Lab S	Sample II	D: s	<u> 1908134-</u>	001A	
Sample wt/	vol:	<u>5mL</u>			Lab	File II	D:	<u>V2-0066.</u>	D	
Level:	(low/med)	LOW			Date C	Collected	d:	8/15/201	9 8:00	AM
% Moisture	: <u>N/A</u>				Date	Received	d:	8/15/201	9 4:20	PM
Extract Vo	lume: <u>5000</u>	<u>(ul)</u>			Date	Prepped	d:	8/23/201	9 1:50	PM
Seq Number	: <u>822057</u>				Date	Analyzed	d: "	8/24/201	9 9:04	PM
GC Column:	<u>V2 08-01-</u>	<u>19 SN#162911</u>	.7		Dilutio	on Factor	r:	1.00		
Column ID:	<u>0.18(mm)</u>			Bat	tch ID/	Ext Mtho	d:	<u>23128/PT</u>		
CAS NO	COMPC		ſ	റവറ	INTTS.	ug/L C	h	זם.	LOD	LOO

CAS NO.	COMPOUND	CONC. U	JNITS: µg/J	L Q	DL	LOD	LOQ
622-96-8	p-Ethyltoluene		0.25	U	0.25	0.25	2.0
135-98-8	sec-Butylbenzene		0.25	U	0.25	0.25	2.0
100-42-5	Styrene		0.25	U	0.25	0.25	2.0
75-65-0	t-Butyl alcohol		2.5	U	2.5	2.5	10
98-06-6	tert-Butylbenzene		0.25	U	0.25	0.25	2.0
108-88-3	Toluene		0.25	U	0.25	0.25	2.0
156-60-5	trans-1,2-Dichloroethene		6.7		0.25	0.25	2.0
10061-02-6	trans-1,3-Dichloropropene		0.25	U	0.25	0.25	2.0
79-01-6	Trichloroethene		100		0.25	0.25	2.0
75-69-4	Trichlorofluoromethane		0.25	U	0.25	0.25	2.0
108-05-4	Vinyl acetate		0.25	υ	0.25	0.25	2.0
75-01-4	Vinyl chloride		0.25	U	0.25	0.25	2.0
1330-20-7	Xylenes, Total		0.75	ש	0.75	0.75	6.0
108-87-2	Methylcyclohexane		0.25	U	0.25	0.25	2.0
107-02-8	Acrolein		1.0	4	K 1.0	1.0	10
107-13-1	Acrylonitrile		0.25	¢	VJ 0.25	0.25	2.0

Jon 13/19

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

							GW	-4 @ 5-9	1	
Lab Name: <u>American Ar</u> Laboratorie	s, LLC.	Contract:								
Lab Code: <u>AAL</u>	ClientID:	<u>Berninger</u>	SAS 1	No.:			SDG	No.: <u>1</u>	908134	
Matrix:	<u>Liquid</u>			Lab S	ample	ID:	190813	<u>4-001A</u>		
Sample wt/vol:	<u>5mL</u>			Lab	File	ID:	<u>V2-002</u>	7.D		
Level: (low/med)	LOW		I	Date C	ollect	ed:	<u>8/15/2</u>	019 8:00	<u>AM</u>	
% Moisture: <u>N/A</u>				Date	Receiv	ed:	8/15/2	019 4:20	PM	
Extract Volume: 5000	<u>)(µl)</u>			Date	Prepp	ed:	8/27/2	019 9:59	AM	
Seq Number: <u>82191</u>	0		Date Analyzed:			ed:	<u>8/27/2019 11:47 PM</u>			
GC Column: <u>V2 08-01</u>	-19 SN#16291	17	D	ilutic	n Fact	or:	20.00			
Column ID: 0.18(mm)		Batcl	n ID/	Ext Mt	nd:	<u>23161/</u>	PT		
CAS NO. COMP	OUND	CO	NC. U	NITS:	µg/L	Q	DL	LOD	LOQ	
L56-59-2 cis-1,	2-Dichloroethen	e			330	D	5.0	5.0	40	
127-18-4 Tetrac	hloroethene				150	D	5.0	5.0	40	

ľ

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

- · · ·			GW-4 @ 15-19'
Lab Name: <u>American An</u> Laboratorie	<u>alytical</u> Contract: <u>s, LLC.</u>		
Lab Code: <u>AAL</u>	ClientID: <u>Berninger</u>	SAS No.:	SDG No.: <u>1908134</u>
Matrix:	<u>Liquid</u>	Lab Sample ID:	<u>1908134-002A</u>
Sample wt/vol:	<u>5mL</u>	Lab File ID:	<u>V2-0067.D</u>
Level: (low/med)	LOW	Date Collected:	<u>8/15/2019 8:30 AM</u>
% Moisture: <u>N/A</u>		Date Received:	<u>8/15/2019 4:20 PM</u>
Extract Volume: <u>5000</u>	<u>(µl)</u>	Date Prepped:	<u>8/23/2019 1:50 PM</u>
Seq Number: <u>822058</u>	<u>L</u>	Date Analyzed:	<u>8/24/2019 9:34 PM</u>
GC Column: <u>V2 08-01-</u>	<u>19 SN#1629117</u>	Dilution Factor:	1.00
Column ID: <u>0.18(mm)</u>	-	Batch ID/ Ext Mthd:	<u>23128/PT</u>

CAS NO.	COMPOUND	CONC.	UNITS: µg	/L Q	DL	LOD	LOQ
630-20-6	1,1,1,2-Tetrachloroethane		0.2	5 U	0.25	0.25	2.0
71-55-6	1,1,1-Trichloroethane		0.2	5 U	0.25	0.25	2.0
79-34-5	1,1,2,2-Tetrachloroethane		0.2	5 U	0.25	0.25	2.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroet	chane	0.2	5 U	0.25	0.25	2.0
79-00-5	1,1,2-Trichloroethane		0.2	5 U	0.25	0.25	2.0
75-34-3	1,1-Dichloroethane		0.2	5 U	0.25	0.25	2.0
75-35-4	1,1-Dichloroethene		9	9	0.25	0.25	2.0
563-58-6	1,1-Dichloropropene		0.2	5 U	0.25	0.25	2.0
87-61-6	1,2,3-Trichlorobenzene		0.2	5 U	0.25	0.25	2.0
96-18-4	1,2,3-Trichloropropane		0.2	5 U	0.25	0.25	2.0
95-93-2	1,2,4,5-Tetramethylbenzene		0.2	5 U	0.25	0.25	2.0
120-82-1	1,2,4-Trichlorobenzene		0.2	5 U	0.25	0.25	2.0
95-63-6	1,2,4-Trimethylbenzene		0.2	5 U	0.25	0.25	2.0
96-12-8	1,2-Dibromo-3-chloropropane		0.2	5 U	0.25	0.25	2.0
106-93-4	1,2-Dibromoethane		0.2	5 U	0.25	0.25	2.0
95-50-1	1,2-Dichlorobenzene		0.2	5 U	0.25	0.25	2.0
107-06-2	1,2-Dichloroethane		0.2	5 U	0.25	0.25	2.0
78-87-5	1,2-Dichloropropane		0.2	5 U	0.25	0.25	2.0
108-67-8	1,3,5-Trimethylbenzene		0.2	5 U	0.25	0.25	2.0
541-73-1	1,3-Dichlorobenzene		0.2	5 U	0.25	0.25	2.0
142-28-9	1,3-dichloropropane		0.2	5 U	0.25	0.25	2.0
106-46-7	1,4-Dichlorobenzene		0.25	5 U	0.25	0.25	2.0
123-91-1	1,4-Dioxane		0.25	5 U	0.25	0.25	1.0
594-20-7	2,2-Dichloropropane		0.25	U 1	0.25	0.25	2.0
78-93-3	2-Butanone		0.50	U U	0.50	0.50	4.0
110-75-8	2-Chloroethyl vinyl ether		1(RO	10	10	20
95-49-8	2-Chlorotoluene		0.25	U U	0.25	0.25	2.0
591-78-6	2-Hexanone		0.50	U	0.50	0.50	4.0
67-63-0	2-Propanol		0.25	5 U	0.25	0.25	2.0
106-43-4	4-Chlorotoluene		0.25	U	0.25	0.25	2.0
99-87-6	4-Isopropyltoluene		0.25	U U	0.25	0.25	2.0
108-10-1	4-Methyl-2-pentanone		0.50	υυ	0.50	0.50	4.0
67-64-1	Acetone		11	B	5.0	5.0	10

for 9/9/19

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

46.000			~		GW-4 @ 15-19'
Lab Name: <u>Am</u> La	<u>merican Ana</u> aboratories	<u>lytical</u> , <u>LLC.</u>	Contract:		
Lab Code: AA	L	ClientID:	<u>Berninger</u>	SAS No.:	SDG No.: <u>1908134</u>
Matrix:		<u>Liquid</u>		Lab Sample ID:	<u>1908134-002A</u>
Sample wt/vol	1:	<u>5mL</u>		Lab File ID:	<u>V2-0067.D</u>
Level: (lo	ow/med)	LOW		Date Collected:	<u>8/15/2019 8:30 AM</u>
% Moisture:	<u>A/N</u>			Date Received:	<u>8/15/2019 4:20 PM</u>
Extract Volum	me: <u>5000(</u>	<u>[µl]</u>		Date Prepped:	8/23/2019 1:50 PM
Seq Number:	822058			Date Analyzed:	<u>8/24/2019 9:34 PM</u>
GC Column:	<u>V2 08-01-1</u>	L9 SN#162911	7	Dilution Factor:	1.00
Column ID:	<u>0.18(mm)</u>			Batch ID/ Ext Mthd:	<u>23128/PT</u>

CAS NO.	COMPOUND CON	C. UNITS:	µg/L	Q	DL	LOD	LOQ
71-43-2	Benzene).25	U	0.25	0.25	2.0
108-86-1	Bromobenzene		0.25	U	0.25	0.25	2.0
74-97-5	Bromochloromethane).25	U	0.25	0.25	2.0
75-27-4	Bromodichloromethane).25	U	0.25	0.25	2.0
75-25-2	Bromoform).25	U	0.25	0.25	2.0
74-83-9	Bromomethane).25	U	0.25	0.25	2.0
75-15-0	Carbon disulfide		0.25	U	0.25	0.25	2.0
56-23-5	Carbon tetrachloride		0.25	U	0.25	0.25	2.0
108-90-7	Chlorobenzene		0.25	U	0.25	0.25	2.0
75-45-6	Chlorodifluoromethane).25	U	0.25	0.25	2.0
75-00-3	Chloroethane		.25	U	0.25	0.25	2.0
67-66-3	Chloroform).25	υ	0.25	0.25	2.0
74-87-3	Chloromethane).25	U	0.25	0.25	2.0
10061-01-5	cis-1,3-Dichloropropene).25	U	0.25	0.25	2.0
110-82-7	Cyclohexane).25	υ	0.25	0.25	2.0
124-48-1	Dibromochloromethane).25	U	0.25	0.25	2.0
74-95-3	Dibromomethane		.25	U	0.25	0.25	2.0
75-71-8	Dichlorodifluoromethane		0.25	U	0.25	0.25	2.0
108-20-3	Diisopropyl ether		0.50	υ	0.50	0.50	2.0
64-17-5	Ethanol		2.5	4	R 2.5	2.5	10
100-41-4	Ethylbenzene).25	υ	0.25	0.25	2.0
76-14-2	Freon-114		.25	U	0.25	0.25	2.0
87-68-3	Hexachlorobutadiene		.25	υ	0.25	0.25	2.0
98-82-8	Isopropylbenzene).25	U	0.25	0.25	2.0
179601-23-1	m,p-Xylene		.50	U	0.50	0.50	4.0
79-20-9	Methyl Acetate		.25	U	0.25	0.25	2.0
1634-04-4	Methyl tert-butyl ether	(.54	J	0.25	0.25	2.0
75-09-2	Methylene chloride		6.2	4	- 🕖 0.25	0.25	2.0
104-51-8	n-Butylbenzene	(.25	U	0.25	0.25	2.0
103-65-1	n-Propylbenzene	().25	U	0.25	0.25	2.0
91-20-3	Naphthalene	(.25	U	0.25	0.25	2.0
95-47-6	o-Xylene	(.25	U	0.25	0.25	2.0
105-05-5	p-Diethylbenzene	(.25	U	0.25	0.25	2.0

for a 19/19

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

					GW-4 @ 15-19'
Lab Name:	ne: <u>American Analytical</u> Contract: <u>Laboratories, LLC.</u>			<u> </u>	
Lab Code:	AAL	ClientID:	<u>Berninger</u>	SAS No.:	SDG No.: <u>1908134</u>
Matrix:		<u>Liquid</u>		Lab Sample ID:	<u>1908134-002A</u>
Sample wt/v	vol:	<u>5mL</u>		Lab File ID:	<u>V2-0067.D</u>
Level:	(low/med)	LOW		Date Collected:	<u>8/15/2019 8:30 AM</u>
% Moisture:	: <u>N/A</u>			Date Received:	<u>8/15/2019 4:20 PM</u>
Extract Vol	Lume: <u>5000</u>	<u>(µl)</u>		Date Prepped:	<u>8/23/2019 1:50 PM</u>
Seq Number:	<u>822058</u>			Date Analyzed:	<u>8/24/2019 9:34 PM</u>
GC Column:	<u>V2 08-01-</u>	<u>19 SN#162911</u>	.7	Dilution Factor:	1.00
Column ID:	<u>0.18(mm)</u>			Batch ID/ Ext Mthd:	<u>23128/PT</u>

CAS NO.	COMPOUND	CONC.	UNITS: µg/	L Q	DL	LOD	LOQ
622-96-8	p-Ethyltoluene		0.25	U	0.25	0.25	2.0
135-98-8	sec-Butylbenzene		0.25	υ	0.25	0.25	2.0
100-42-5	Styrene		0.25	U	0.25	0.25	2.0
75-65-0	t-Butyl alcohol		2.5	U	2.5	2.5	10
98-06-6	tert-Butylbenzene		0.25	U	0.25	0.25	2.0
127-18-4	Tetrachloroethene		0.78	J	0.25	0.25	2.0
108-88-3	Toluene		0.68	J	0.25	0.25	2.0
156-60-5	trans-1,2-Dichloroethene		190		0.25	0.25	2.0
10061-02-6	trans-1,3-Dichloropropene		0.25	U	0.25	0.25	2.0
75-69-4	Trichlorofluoromethane		0.25	U	0.25	0.25	2.0
108-05-4	Vinyl acetate		0.25	U	0.25	0.25	2.0
75-01-4	Vinyl chloride		24		0.25	0.25	2.0
1330-20-7	Xylenes, Total		0.75	U	0.75	0.75	6.0
108-87-2	Methylcyclohexane		0.25	U	0.25	0.25	2.0
107-02-8	Acrolein		1.0	~	K 1.0	1.0	10
107-13-1	Acrylonitrile		0.25	-	UJ 0.25	0.25	2.0

SW8260C

3119

Daga 25 af 600

Form 1	Γ
--------	---

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

Tal Marana Descriptions		desetes et			GW-4	@ 15-1	91
Lab Name: <u>American Ar</u> Laboratorie	<u>s, LLC.</u>	contract:					
Lab Code: <u>AAL</u>	ClientID:	<u>Berninge</u>	SAS No.:		SDG N	o.: <u>1</u>	908134
Matrix:	<u>Liquid</u>		Lab Samj	ple ID:	<u> 1908134-</u>	002A	
Sample wt/vol:	<u>5mL</u>		Lab F	ile ID:	<u>V2-0029</u>	D	
Level: (low/med)	LOW		Date Coli	lected:	<u>8/15/201</u>	9 8:30	AM
% Moisture: <u>N/A</u>			Date Red	ceived:	<u>8/15/201</u>	9 4:20	PM
Extract Volume: 5000) <u>(µl)</u>		Date P:	repped:	8/27/201	9 9:59	AM
Seq Number: <u>82191</u>	2		Date Ana	alyzed:	8/28/201	9 12:4	<u>7 AM</u>
GC Column: <u>V2 08-01</u>	-19 SN#16291	17	Dilution 1	Factor:	500.00		
Column ID: 0.18(mm	<u>)</u>		Batch ID/ Ext	t Mthd:	<u>23161/P</u>	-	
CAS NO. COMP	OUND		CONC. UNITS: µg	/L Q	DL	LOD	LOQ
156-59-2 cis-1,	2-Dichloroethen	e	3500	0 D	130	130	1000

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

- 1	4	a				GW-	4 @ 15-1	9'
Lab Name: <u>American A</u> Laboratori	<u>es, LLC.</u>	Contract:						
Lab Code: <u>AAL</u>	ClientID:	<u>Berninger</u>	SAS	No.:		SDG	No.: <u>1</u>	908134
Matrix:	<u>Liquid</u>			Lab Sam	ple ID:	190813	<u>4-002A</u>	
Sample wt/vol:	<u>5mL</u>			Lab F	ile ID:	<u>V2-002</u>	8.D	
Level: (low/med)	LOW			Date Col	lected:	8/15/2	019 8:30	AM
% Moisture: <u>N/A</u>				Date Re	ceived:	8/15/2	019 4:20	PM
Extract Volume: <u>500</u>	00(µl)			Date P:	repped:	8/27/2	019 9:59	AM
Seq Number: <u>82191</u>	1			Date Ana	alyzed:	8/28/2	019 12:1	7 AM
GC Column: <u>V2 08-01</u>	-19 SN#16291	17	D	ilution 3	Factor:	100.00	1	
Column ID: 0.18(mm	<u>n)</u>		Batc	h ID/ Ext	t Mthd:	<u>23161/</u>	PT	
CAS NO. COM	POUND	(CONC. U	NITS: µg	/L Q	DL	LOD	LOQ
79-01-6 Trich	loroethene			130	0 D	25	25	200

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

08134
AM
PM
PM
PM
1

CAS NO.	COMPOUND CON	C. UNITS: μg	/L Q	DL	LOD	LOQ
630-20-6	1,1,1,2-Tetrachloroethane	0.2	5 U	0.25	0.25	2.0
71-55-6	1,1,1-Trichloroethane	0.2	5 U	0.25	0.25	2.0
79-34-5	1,1,2,2-Tetrachloroethane	0.2	5 U	0.25	0.25	2.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.2	5 U	0.25	0.25	2.0
79-00-5	1,1,2-Trichloroethane	0.2	5 U	0.25	0.25	2.0
75-34-3	1,1-Dichloroethane	0.2	5 U	0.25	0.25	2.0
75~35 - 4	1,1-Dichloroethene	0.2	5 U	0.25	0.25	2.0
563-58-6	1,1-Dichloropropene	0.2	5 U	0.25	0.25	2.0
87-61-6	1,2,3-Trichlorobenzene	0.2	5 U	0.25	0.25	2.0
96-18-4	1,2,3-Trichloropropane	0.2	5 U	0.25	0.25	2.0
95-93-2	1,2,4,5-Tetramethylbenzene	0.2	5 U	0.25	0.25	2.0
120-82-1	1,2,4-Trichlorobenzene	0.2	5 U	0.25	0.25	2.0
95-63-6	1,2,4-Trimethylbenzene	0.2	5 U	0.25	0.25	2.0
96-12-8	1,2-Dibromo-3-chloropropane	0.2	5 U	0.25	0.25	2.0
106-93-4	1,2-Dibromoethane	0.2	5 U	0.25	0.25	2.0
95-50-1	1,2-Dichlorobenzene	0.2	5 U	0.25	0.25	2.0
107-06-2	1,2-Dichloroethane	0,2	5 U	0.25	0.25	2.0
78-87-5	1,2-Dichloropropane	0.2	5 U	0.25	0.25	2.0
108-67-8	1,3,5-Trimethylbenzene	0,2	5 U	0.25	0.25	2.0
541-73-1	1,3-Dichlorobenzene	0.2	5 ប	0.25	0.25	2.0
142-28-9	1,3-dichloropropane	0.2	5 U	0.25	0.25	2.0
106-46-7	1,4-Dichlorobenzene	0.2	5 U	0.25	0.25	2.0
123-91-1	1,4-Dioxane	0.2	5 U	0.25	0.25	1.0
594-20-7	2,2-Dichloropropane	0.2	5 ប	0.25	0.25	2.0
78-93-3	2-Butanone	0.5	υ 💊 υ	0.50	0.50	4.0
110-75-8	2-Chloroethyl vinyl ether	1	ORE	10	10	20
95-49-8	2-Chlorotoluene	0.2	5 U	0.25	0.25	2.0
591-78-6	2-Hexanone	0.5	U 0	0.50	0.50	4.0
67-63-0	2-Propanol	0.2	5 ប	0.25	0.25	2.0
106-43-4	4-Chlorotoluene	0.2	5 U	0.25	0.25	2.0
99-87-6	4-Isopropyltoluene	0.2	5 U	0.25	0.25	2.0
108-10-1	4-Methyl-2-pentanone	0.5	0 U	0.50	0.50	4.0
67-64-1	Acetone	1	1 🗕	- () 5.0	5.0	10

for g1 = 119

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

E

				GW-4 @ 26-30'
Lab Name: <u>American An</u> Laboratorie	<u>alytical</u> <u>s, LLC.</u>	Contract:		
Lab Code: <u>AAL</u>	ClientID:	<u>Berninger</u>	SAS No.:	SDG No.: <u>1908134</u>
Matrix:	Liquid		Lab Sample ID:	<u>1908134-003A</u>
Sample wt/vol:	<u>5mL</u>		Lab File ID:	<u>V2-0068.D</u>
Level: (low/med)	LOW		Date Collected:	<u>8/15/2019 9:00 AM</u>
% Moisture: <u>N/A</u>			Date Received:	<u>8/15/2019 4:20 PM</u>
Extract Volume: <u>5000</u>	(ul)		Date Prepped:	<u>8/23/2019 1:50 PM</u>
Seq Number: <u>822055</u>	2		Date Analyzed:	<u>8/24/2019 10:04 PM</u>
GC Column: <u>V2 08-01-</u>	19 SN#16291	17	Dilution Factor:	1.00
Column ID: 0.18(mm)	<u>-</u>		Batch ID/ Ext Mthd:	<u>23128/PT</u>

CAS NO.	COMPOUND CONC.	UNITS: µg/I	L Q	DL	LOD	LOQ
71-43-2	Benzene	0.25	U	0.25	0.25	2.0
108-86-1	Bromobenzene	0.25	ט	0.25	0.25	2.0
74-97-5	Bromochloromethane	0.25	U	0.25	0.25	2,0
75-27-4	Bromodichloromethane	0.25	U	0.25	0.25	2.0
75-25-2	Bromoform	0.25	υ	0.25	0.25	2.0
74-83-9	Bromomethane	0.25	U	0.25	0.25	2.0
75-15 - 0	Carbon disulfide	0.25	υ	0.25	0.25	2.0
56-23-5	Carbon tetrachloride	0.25	υ	0.25	0.25	2.0
108-90-7	Chlorobenzene	0.25	υ	0.25	0.25	2.0
75-45-6	Chlorodifluoromethane	0.25	υ	0.25	0.25	2.0
75-00-3	Chloroethane	0.25	υ	0.25	0.25	2.0
67-66-3	Chloroform	0.25	ט	0.25	0.25	2.0
74-87-3	Chloromethane	0.25	ט	0.25	0.25	2.0
156-59-2	cis-1,2-Dichloroethene	59		0.25	0.25	2.0
10061-01-5	cis-1,3-Dichloropropene	0.25	ט	0.25	0.25	2.0
110-82-7	Cyclohexane	0.25	U	0.25	0.25	2.0
124-48-1	Dibromochloromethane	0.25	U	0.25	0.25	2.0
74-95-3	Dibromomethane	0.25	U	0.25	0.25	2.0
75-71-8	Dichlorodifluoromethane	0.25	U	0.25	0.25	2.0
108-20-3	Diisopropyl ether	0.50	υ	0.50	0.50	2.0
64-17-5	Ethanol	2.5	J.	C 2.5	2.5	10
100-41-4	Ethylbenzene	0.25	U	0.25	0.25	2.0
76-14-2	Freon-114	0.25	U	0.25	0.25	2.0
87-68-3	Hexachlorobutadiene	0.25	U	0.25	0.25	2.0
98-82-8	Isopropylbenzene	0.25	U	0.25	0.25	2.0
179601-23-1	m,p-Xylene	0.50	U	0.50	0.50	4.0
79-20-9	Methyl Acetate	0.25	U	0.25	0.25	2.0
1634-04-4	Methyl tert-butyl ether	0.25	U	0.25	0.25	2.0
75-09-2	Methylene chloride	6.3	-8	0.25	0.25	2.0
104-51-8	n-Butylbenzene	0.25	U	0.25	0.25	2.0
103-65-1	n-Propylbenzene	0.25	U	0.25	0.25	2.0
91-20-3	Naphthalene	0.25	U	0.25	0.25	2.0
95-47-6	o-Xylene	0.25	U	0.25	0.25	2.0

Soralalia

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

				GW-4 @ 26-30'
Lab Name: <u>American</u> Laborator	<u>nalytical</u> es, LLC.	Contract:		
Lab Code: <u>AAL</u>	ClientID:	<u>Berninger</u>	SAS No.:	SDG No.: <u>1908134</u>
Matrix:	<u>Liquid</u>		Lab Sample ID:	<u>1908134-003A</u>
Sample wt/vol:	<u>5mL</u>		Lab File ID:	<u>V2-0068.D</u>
Level: (low/med)	LOW		Date Collected:	<u>8/15/2019 9:00 AM</u>
% Moisture: <u>N/A</u>			Date Received:	<u>8/15/2019 4:20 PM</u>
Extract Volume: 50	<u>)0(µl)</u>		Date Prepped:	<u>8/23/2019 1:50 PM</u>
Seq Number: <u>8220</u>	<u>59</u>		Date Analyzed:	<u>8/24/2019 10:04 PM</u>
GC Column: <u>V2 08-0</u>	1-19 SN#162911	.7	Dilution Factor:	<u>1.00</u>
Column ID: 0.18(m	<u>m)</u>		Batch ID/ Ext Mthd:	<u>23128/PT</u>

CAS NO.	COMPOUND	CONC.	UNITS: µg/	L Q	DL	LOD	LOQ
105-05-5	p-Diethylbenzene		0.25	U	0.25	0.25	2.0
622-96-8	p-Ethyltoluene		0.25	U	0.25	0.25	2.0
135-98-8	sec-Butylbenzene		0.25	U	0.25	0.25	2.0
100-42-5	Styrene		0.25	ប	0.25	0.25	2.0
75-65-0	t-Butyl alcohol		2.5	ប	2.5	2.5	10
98-06-6	tert-Butylbenzene		0.25	ប	0.25	0.25	2.0
127-18-4	Tetrachloroethene		0.79	J	0.25	0.25	2.0
108-88-3	Toluene		0.25	U	0.25	0.25	2.0
156-60-5	trans-1,2-Dichloroethene		0.49	J	0.25	0.25	2.0
10061-02-6	trans-1,3-Dichloropropene		0.25	U	0.25	0.25	2.0
79-01-6	Trichloroethene		0.25	U	0.25	0.25	2.0
75-69-4	Trichlorofluoromethane		0,25	U	0.25	0.25	2.0
108-05-4	Vinyl acetate		0.25	U	0.25	0.25	2.0
75-01-4	Vinyl chloride		0,25	ט	0.25	0,25	2.0
1330-20-7	Xylenes, Total		0.75	υ	0.75	0.75	6.0
108-87-2	Methylcyclohexane		0.25	ז	0.25	0.25	2.0
107-02-8	Acrolein		1.0	-7	K 1.0	1.0	10
107-13-1	Acrylonitrile		0.25	Ð	0.25	0.25	2.0

013/19 5 101 Daga 10 af 600

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

			GW-5 @ 5-9'
Lab Name: <u>American An</u> <u>Laboratorie</u>	<u>alytical</u> Contract: <u>s, LLC.</u>	4. 	
Lab Code: <u>AAL</u>	ClientID: <u>Berninger</u>	SAS No.:	SDG No.: <u>1908134</u>
Matrix:	Liquid	Lab Sample ID:	<u>1908134-004A</u>
Sample wt/vol:	<u>5mL</u>	Lab File ID:	<u>V2-0069.D</u>
Level: (low/med)	LOW	Date Collected:	<u>8/15/2019 9:30 AM</u>
% Moisture: <u>N/A</u>		Date Received:	<u>8/15/2019 4:20 PM</u>
Extract Volume: <u>5000</u>	<u>)(µl)</u>	Date Prepped:	<u>8/23/2019 1:50 PM</u>
Seq Number: <u>822060</u>	<u>)</u>	Date Analyzed:	<u>8/24/2019 10:34 PM</u>
GC Column: <u>V2 08-01-</u>	-19 SN#1629117	Dilution Factor:	1.00
Column ID: 0.18(mm	<u>)</u>	Batch ID/ Ext Mthd:	<u>23128/PT</u>

CAS NO.	COMPOUND CONC.	UNITS: µg/	L Q	DL	LOD	LOQ
630-20-6	1,1,1,2-Tetrachloroethane	0.25	υ	0.25	0.25	2.0
71-55-6	1,1,1-Trichloroethane	0.25	U	0.25	0.25	2.0
79-34-5	1,1,2,2-Tetrachloroethane	0.25	U	0.25	0.25	2.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.25	U	0.25	0.25	2.0
79-00-5	1,1,2-Trichloroethane	0.25	U	0.25	0.25	2.0
75-34-3	1,1-Dichloroethane	0.25	U	0.25	0.25	2.0
75-35-4	1,1-Dichloroethene	0.25	U	0.25	0.25	2.0
563-58-6	1,1-Dichloropropene	0.25	U	0.25	0.25	2.0
87-61-6	1,2,3-Trichlorobenzene	0.25	U	0.25	0.25	2.0
96-18-4	1,2,3-Trichloropropane	0.25	U	0.25	0.25	2.0
95-93-2	1,2,4,5-Tetramethylbenzene	0.25	U	0.25	0.25	2.0
120-82-1	1,2,4-Trichlorobenzene	0.25	U	0.25	0.25	2.0
95-63-6	1,2,4-Trimethylbenzene	0.25	ប	0.25	0.25	2.0
96-12-8	1,2-Dibromo-3-chloropropane	0.25	U	0.25	0.25	2.0
106-93-4	1,2-Dibromoethane	0.25	ប	0.25	0.25	2.0
95-50-1	1,2-Dichlorobenzene	0.25	ប	0.25	0.25	2.0
107-06-2	1,2-Dichloroethane	0.25	U	0.25	0.25	2.0
78-87-5	1,2-Dichloropropane	0.25	U	0.25	0.25	2.0
108-67-8	1,3,5-Trimethylbenzene	0.25	ט	0.25	0.25	2.0
541-73-1	1,3-Dichlorobenzene	0.25	ט	0.25	0.25	2.0
142-28-9	1,3-dichloropropane	0.25	U	0.25	0.25	2.0
106-46-7	1,4-Dichlorobenzene	0.25	U	0.25	0.25	2.0
123-91-1	1,4-Dioxane	0.25	U	0.25	0.25	1.0
594-20-7	2,2-Dichloropropane	0.25	U	0.25	0.25	2.0
78-93-3	2-Butanone	0.50	υ	0.50	0.50	4.0
110-75-8	2-Chloroethyl vinyl ether	10	R	10	10	20
95-49-8	2-Chlorotoluene	0.25	ប	0.25	0.25	2.0
591-78-6	2-Hexanone	0.50	ប	0.50	0.50	4.0
67-63-0	2-Propanol	0.25	U	0.25	0.25	2.0
106-43-4	4-Chlorotoluene	0.25	U	0.25	0.25	2.0
99-87-6	4-Isopropyltoluene	0.25	υ	0.25	0.25	2.0
108-10-1	4-Methyl-2-pentanone	0.50	U	0.50	0.50	4.0
67-64-1	Acetone	19	B	5.0	5.0	10

SW8260C Jap 9/9/19

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

					GW-5 @ 5-9'
Lab Name: <u>Am</u> La	<u>nerican Ana</u> aboratories	<u>alytical</u> 3, <u>LLC.</u>	Contract:	-	
Lab Code: <u>AAI</u>	<u>L</u> :::	ClientID:	<u>Berninger</u>	SAS No.:	SDG No.: <u>1908134</u>
Matrix:		<u>Liquid</u>		Lab Sample II	D: <u>1908134-004A</u>
Sample wt/vol	l:	<u>5mL</u>		Lab File II	D: <u>V2-0069.D</u>
Level: (lo	ow/med)	LOW		Date Collected	l: <u>8/15/2019 9:30 AM</u>
% Moisture:	<u>N/A</u>			Date Received	1: <u>8/15/2019 4:20 PM</u>
Extract Volum	ne: <u>5000</u>	(µl)		Date Prepped	1: <u>8/23/2019 1:50 PM</u>
Seq Number:	<u>822060</u>			Date Analyzed	1: <u>8/24/2019 10:34 PM</u>
GC Column:	<u>V2 08-01-</u>	19 SN#162911	7	Dilution Factor	: <u>1.00</u>
Column ID:	<u>0.18(mm)</u>			Batch ID/ Ext Mthe	l: <u>23128/PT</u>

CAS NO.	COMPOUND	CONC. UNITS	: µg/	ЬQ	DL	LOD	LOQ
71-43-2	Benzene		0.25	U	0.25	0.25	2.0
108-86-1	Bromobenzene		0.25	U	0.25	0.25	2.0
74-97-5	Bromochloromethane		0.25	U	0.25	0.25	2.0
75-27-4	Bromodichloromethane		0.25	U	0.25	0.25	2.0
75-25-2	Bromoform		0.25	U	0.25	0.25	2.0
74-83-9	Bromomethane		0.25	U	0.25	0.25	2.0
75-15-0	Carbon disulfide		0.25	U	0.25	0.25	2.0
56-23-5	Carbon tetrachloride		0.25	U	0.25	0.25	2.0
108-90-7	Chlorobenzene		0.25	υ	0.25	0.25	2.0
75-45-6	Chlorodifluoromethane		0,25	ט	0.25	0.25	2.0
75-00-3	Chloroethane		0.25	U	0.25	0.25	2.0
67-66-3	Chloroform		0.25	U	0.25	0.25	2.0
74-87-3	Chloromethane		0.25	ט	0.25	0.25	2.0
10061-01-5	cis-1,3-Dichloropropene		0.25	U	0.25	0.25	2.0
110-82-7	Cyclohexane		0.25	ע	0.25	0.25	2.0
124-48-1	Dibromochloromethane		0.25	ט	0.25	0.25	2.0
74-95-3	Dibromomethane		0.25	υ	0.25	0.25	2.0
75-71-8	Dichlorodifluoromethane		0.25	U	0.25	0.25	2.0
108-20-3	Diisopropyl ether		0.50	U	0.50	0.50	2.0
64-17-5	Ethanol		2.5	فلر	2.5	2.5	10
100-41-4	Ethylbenzene		0.25	υ	0.25	0.25	2.0
76-14-2	Freon-114		0.25	U	0.25	0.25	2.0
87-68-3	Hexachlorobutadiene		0.25	υ	0.25	0.25	2.0
98-82-8	Isopropylbenzene		0.25	υ	0.25	0.25	2.0
179601-23-1	m,p-Xylene		0.50	ט	0.50	0.50	4.0
79-20-9	Methyl Acetate		0.25	U	0.25	0.25	2.0
1634-04-4	Methyl tert-butyl ether		0.25	U	0.25	0.25	2.0
75-09-2	Methylene chloride		6.2	ł	0.25	0.25	2.0
104-51-8	n-Butylbenzene		0.25	U	0.25	0.25	2.0
103-65-1	n-Propylbenzene		0.25	U	0.25	0.25	2.0
91-20-3	Naphthalene		0.25	U	0.25	0.25	2.0
95-47-6	o-Xylene		0.25	U	0.25	0.25	2.0
105-05-5	p-Diethylbenzene		0.25	U	0.25	0.25	2.0

forg/9/19

VOLATILE SW-846 METHOD 8260 CLIENT SAMPLE NO.

I

						GW-5 @	5-9'
Lab Name:	American Ana Laboratorie	<u>alytical</u> s, LLC.	Contract:				
Lab Code:	AAL	ClientID:	<u>Berninge</u>	SAS No.:		SDG No.:	<u>1908134</u>
Matrix:		<u>Liquid</u>		Lab Sample	ID:	<u>1908134-004</u>	A
Sample wt/	vol:	<u>5mL</u>		Lab File	ID:	<u>V2-0069.D</u>	
Level:	(low/med)	LOW		Date Collect	ed:	<u>8/15/2019</u>	:30 AM
% Moisture	: <u>N/A</u>			Date Receiv	ed:	<u>8/15/2019 4</u>	:20 PM
Extract Vo	lume: <u>5000</u>	<u>(µl)</u>		Date Prepp	ed:	<u>8/23/2019 1</u>	:50 PM
Seq Number	: <u>822060</u>			Date Analyz	ed:	8/24/2019 1	0:34 PM
GC Column:	<u>V2 08-01-</u>	<u>19 SN#16291</u>	17	Dilution Fact	or:	<u>1.00</u>	
Column ID:	<u>0.18(mm)</u>	-		Batch ID/ Ext Mt	hd:	<u>23128/PT</u>	
CAS NO.	COMPO	DUND		CONC. UNITS: ug/L	0	DL LO	D LOO

CAS NO.	COMPOUND	CONC.	UNITS: µg/	ьQ	ΠП	LOD	LOQ
622-96-8	p-Ethyltoluene		0.25	U	0.25	0.25	2.0
135-98-8	sec-Butylbenzene		0.25	U	0.25	0.25	2.0
100-42-5	Styrene		0.25	U	0.25	0.25	2.0
75-65-0	t-Butyl alcohol		2.5	υ	2.5	2.5	10
98-06-6	tert-Butylbenzene		0.25	U	0.25	0.25	2.0
127-18-4	Tetrachloroethene		33		0.25	0.25	2.0
108-88-3	Toluene		0.25	U	0.25	0.25	2.0
156-60-5	trans-1,2-Dichloroethene		1.5	J	0.25	0.25	2.0
10061-02-6	trans-1,3-Dichloropropene		0.25	U	0.25	0.25	2.0
79-01-6	Trichloroethene		46		0.25	0.25	2.0
75-69-4	Trichlorofluoromethane		0.25	U	0.25	0.25	2.0
108-05-4	Vinyl acetate		0.25	U	0.25	0.25	2.0
75-01-4	Vinyl chloride		0.25	U	0.25	0.25	2.0
1330-20-7	Xylenes, Total		0.75	U	0.75	0.75	6.0
108-87-2	Methylcyclohexane		0.25	υ	0.25	0.25	2.0
107-02-8	Acrolein		1.0	4	R 1.0	1.0	10
107-13-1	Acrylonitrile		0.25	4	0.25	0.25	2.0

3119

Daga 17 af 400

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

						GW-5	5 @ 5-9	I.	
Lab Name: <u>American An</u> <u>Laboratorie</u>	<u>alytical</u> s, LLC.	Contract:							
Lab Code: <u>AAL</u>	ClientID:	Berninge:	r SAS No.:			SDG N	o.: <u>1</u>	90813	<u>4</u>
Matrix:	Liquid		Lab	Sample 3	ID:	1908134	-004A		
Sample wt/vol:	<u>5mL</u>		La	ab File :	ID:	<u>V2-0031</u>	<u>. D</u>		
Level: (low/med)	LOW		Date	Collect	ed:	8/15/20	19 9:30	<u>MA</u>	
% Moisture: <u>N/A</u>			Date	e Receive	ed:	8/15/20	19 4:20	<u>PM</u>	
Extract Volume: <u>5000</u>	(µ1)		Dat	ce Prepp	ed:	8/27/20	19 9:59	<u>AM</u>	
Seq Number: <u>821914</u>			Date	e Analyz	ed:	8/28/20	19 1:47	<u>' AM</u>	
GC Column: <u>V2 08-01-</u>	19 SN#16291	17	Dilut	ion Facto	or:	5.00			
Column ID: <u>0.18(mm</u>)			Batch ID,	/ Ext Mtl	hd:	<u>23161/P</u>	<u>r</u>		
CAS NO. COMP	OUND		CONC. UNITS	: µg/L	Q	DL	LOD	LOQ	
156-59-2 cis-1,2	2-Dichloroethen	le		260	D	1.3	1.3		10

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

				GW-5 @ 15-19"
Lab Name: <u>American A</u> Laboratori	<u>nalytical</u> es. LLC.	Contract:		
Lab Code: <u>AAL</u>	ClientID:	<u>Berninger</u>	SAS No.:	SDG No.: <u>1908134</u>
Matrix:	<u>Liquid</u>		Lab Sample ID:	<u>1908134-005A</u>
Sample wt/vol:	<u>.5mL</u>		Lab File ID:	<u>V2-0070.D</u>
Level: (low/med)	LOW		Date Collected:	<u>8/15/2019 10:00 AM</u>
% Moisture: <u>N/A</u>			Date Received:	8/15/2019 4:20 PM
Extract Volume: <u>500</u>	<u>0(µl)</u>		Date Prepped:	<u>8/23/2019 1:50 PM</u>
Seq Number: <u>82206</u>	1		Date Analyzed:	<u>8/24/2019 11:04 PM</u>
GC Column: <u>V2 08-01</u>	-19 SN#162911	7	Dilution Factor:	1.00
Column ID: <u>0.18(mm</u>	<u>ı)</u>		Batch ID/ Ext Mthd:	<u>23128/PT</u>
Sample wt/vol: Level: (low/med) % Moisture: <u>N/A</u> Extract Volume: <u>500</u> Seq Number: <u>82206</u> GC Column: <u>V2 08-01</u> Column ID: <u>0.18(mm</u>	<u>5mL</u> <u>LOW</u> 0(µ1) 1 -19 SN#162911))	7	Lab File ID: Date Collected: Date Received: Date Prepped: Date Analyzed: Dilution Factor: Batch ID/ Ext Mthd:	<u>V2-0070.D</u> <u>8/15/2019 10:00 AM</u> <u>8/15/2019 4:20 PM</u> <u>8/23/2019 1:50 PM</u> <u>8/24/2019 11:04 PM</u> <u>1.00</u> <u>23128/PT</u>

CAS NO.	COMPOUND	CONC.	UNITS: µg/	ЬQ	DL	LOD	LOQ
630-20-6	1,1,1,2-Tetrachloroethane		0.25	U	0.25	0.25	2.0
71-55-6	1,1,1-Trichloroethane		0.25	U	0.25	0.25	2.0
79-34-5	1,1,2,2-Tetrachloroethane		0.25	υ	0.25	0.25	2.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroeth	lane	0.25	U	0.25	0.25	2.0
79-00-5	1,1,2-Trichloroethane		0.25	U	0.25	0.25	2.0
75-34-3	1,1-Dichloroethane		0.25	υ	0.25	0.25	2.0
75-35-4	1,1-Dichloroethene		30		0.25	0.25	2.0
563-58-6	1,1-Dichloropropene		0.25	U	0.25	0.25	2.0
87-61-6	1,2,3-Trichlorobenzene		0.25	U	0.25	0.25	2.0
96-18-4	1,2,3-Trichloropropane		0.25	U	0.25	0.25	2.0
95-93-2	1,2,4,5-Tetramethylbenzene		0.25	U	0.25	0.25	2.0
120-82-1	1,2,4-Trichlorobenzene		0.25	U	0.25	0.25	2.0
95-63-6	1,2,4-Trimethylbenzene		0.25	υ	0.25	0.25	2.0
96-12-8	1,2-Dibromo-3-chloropropane		0.25	U	0.25	0.25	2.0
106-93-4	1,2-Dibromoethane		0.25	U	0.25	0.25	2.0
95-50-1	1,2-Dichlorobenzene		0.25	U	0.25	0.25	2.0
107-06-2	1,2-Dichloroethane		0.25	υ	0.25	0.25	2.0
78-87-5	1,2-Dichloropropane		0.25	υ	0.25	0.25	2.0
108-67-8	1,3,5-Trimethylbenzene		0.25	U	0.25	0.25	2.0
541-73-1	1,3-Dichlorobenzene		0.25	U	0.25	0.25	2.0
142-28-9	1,3-dichloropropane		0.25	υ	0.25	0.25	2.0
106-46-7	1,4-Dichlorobenzene		0.25	U	0.25	0.25	2.0
123-91-1	1,4-Dioxane		0.25	U	0.25	0.25	1.0
594-20-7	2,2-Dichloropropane		0.25	U	0.25	0.25	2.0
78-93-3	2-Butanone		0.50	U	0.50	0.50	4.0
110-75-8	2-Chloroethyl vinyl ether		10	Ro	10	10	20
95-49-8	2-Chlorotoluene		0.25	U	0.25	0.25	2.0
591-78-6	2-Hexanone		0.50	U	0.50	0.50	4.0
67-63-0	2-Propanol		0.25	U	0.25	0.25	2.0
106-43-4	4-Chlorotoluene		0.25	U	0.25	0.25	2.0
99-87-6	4-Isopropyltoluene		0.25	U	0.25	0.25	2.0
108-10-1	4-Methyl-2-pentanone		0.50	U	0.50	0.50	4.0
67-64-1	Acetone		13		5.0	5.0	10

SW8260C for 9/9/19

VOLATILE SW-846 METHOD 8260 CLIENT SAMPLE NO.

			GW-5 @ 15-19"
Lab Name: <u>American An</u> Laboratorie	<u>alytical</u> Contract: s, LLC.		
Lab Code: <u>AAL</u>	ClientID: <u>Berninger</u>	SAS No.:	SDG No.: <u>1908134</u>
Matrix:	Liquid	Lab Sample ID:	<u>1908134-005A</u>
Sample wt/vol:	<u>5mL</u>	Lab File ID:	<u>V2-0070.D</u>
Level: (low/med)	LOW	Date Collected:	<u>8/15/2019 10:00 AM</u>
% Moisture: <u>N/A</u>		Date Received:	<u>8/15/2019 4:20 PM</u>
Extract Volume: <u>5000</u>	<u>(µl)</u>	Date Prepped:	<u>8/23/2019 1:50 PM</u>
Seq Number: <u>822061</u>		Date Analyzed:	<u>8/24/2019 11:04 PM</u>
GC Column: <u>V2 08-01-</u>	<u>19 SN#1629117</u>	Dilution Factor:	<u>1.00</u>
Column ID: <u>0.18(mm)</u>	-	Batch ID/ Ext Mthd:	<u>23128/PT</u>

CAS NO.	COMPOUND	CONC.	UNITS: µg/	ЬQ	DL	LOD	LOQ
71-43-2	Benzene		0.25	U	0.25	0.25	2.0
108-86-1	Bromobenzene		0.25	U	0.25	0.25	2.0
74-97-5	Bromochloromethane		0.25	U	0.25	0.25	2.0
75-27-4	Bromodichloromethane		0.25	U	0.25	0.25	2.0
75-25 - 2	Bromoform		0.25	U	0.25	0.25	2.0
74-83-9	Bromomethane		0.25	U	0.25	0.25	2.0
75-15-0	Carbon disulfide		0.25	U	0.25	0.25	2.0
56-23-5	Carbon tetrachloride		0.25	U	0.25	0.25	2.0
108-90-7	Chlorobenzene		0.25	U	0.25	0.25	2.0
75-45-6	Chlorodifluoromethane		0.25	U	0.25	0.25	2.0
75-00-3	Chloroethane		0.25	U	0.25	0.25	2.0
67-66-3	Chloroform		0.25	U	0.25	0.25	2.0
74-87-3	Chloromethane		0.25	U	0.25	0.25	2.0
10061-01-5	cis-1,3-Dichloropropene		0.25	U	0.25	0.25	2.0
110-82-7	Cyclohexane		0.25	U	0.25	0.25	2.0
124-48-1	Dibromochloromethane		0.25	ט	0.25	0.25	2.0
74-95-3	Dibromomethane		0.25	ប	0.25	0.25	2.0
75-71-8	Dichlorodifluoromethane		0.25	ט	0.25	0.25	2.0
108-20-3	Diisopropyl ether		0.50	U	0.50	0.50	2.0
64-17-5	Ethanol		2.5	-8	R 2.5	2.5	10
100-41-4	Ethylbenzene		0.25	ט	0.25	0.25	2.0
76-14-2	Freon-114		0.25	ט	0.25	0.25	2.0
87-68-3	Hexachlorobutadiene		0.25	U	0.25	0.25	2.0
98-82-8	Isopropylbenzene		0.25	U	0.25	0.25	2.0
179601-23-1	m,p-Xylene		0.50	U	0.50	0.50	4.0
79-20-9	Methyl Acetate		0.25	U	0.25	0.25	2.0
1634-04-4	Methyl tert-butyl ether		0.27	J	0.25	0.25	2.0
75-09-2	Methylene chloride		5.2	P	0.25	0.25	2.0
104-51-8	n-Butylbenzene		0.25	U	0.25	0.25	2.0
103-65-1	n-Propylbenzene		0.25	U	0.25	0.25	2.0
91-20-3	Naphthalene		0.25	U	0.25	0.25	2.0
95-47-6	o-Xylene		0.25	U	0.25	0.25	2.0
105-05-5	p-Diethylbenzene		0.25	U	0.25	0.25	2.0

SW8260C Jorg/9/19

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

				GW-5 @ 15-19"
Lab Name: <u>America</u> <u>Laborat</u>	<u>n Analytical</u> orie <u>s, LLC.</u>	Contract:		
Lab Code: <u>AAL</u>	ClientID:	Berninger	SAS No.:	SDG No.: <u>1908134</u>
Matrix:	Liquid		Lab Sample ID:	<u>1908134-005A</u>
Sample wt/vol:	<u>5mL</u>		Lab File ID:	<u>V2-0070.D</u>
Level: (low/med) <u>LOW</u>		Date Collected:	<u>8/15/2019 10:00 AM</u>
% Moisture: <u>N/2</u>	<u>A</u>		Date Received:	<u>8/15/2019 4:20 PM</u>
Extract Volume:	<u>5000(µl)</u>		Date Prepped:	<u>8/23/2019 1:50 PM</u>
Seq Number: 82	2061		Date Analyzed:	<u>8/24/2019 11:04 PM</u>
GC Column: <u>V2 08</u>	-01-19 SN#162911	7	Dilution Factor:	<u>1.00</u>
Column ID: 0.18	<u>3 (mm)</u>		Batch ID/ Ext Mthd:	<u>23128/PT</u>

CAS NO.	COMPOUND	CONC.	UNITS: µg/1	ĹQ	DL	LOD	LOQ
622-96-8	p-Ethyltoluene		0.25	U	0.25	0.25	2.0
135-98-8	sec-Butylbenzene		0.25	U	0.25	0.25	2.0
100-42-5	Styrene		0.25	U	0.25	0.25	2.0
75-65-0	t-Butyl alcohol		2.5	U	2.5	2.5	10
98-06-6	tert-Butylbenzene		0.25	U	0.25	0.25	2.0
127-18-4	Tetrachloroethene		47		0.25	0.25	2.0
108-88-3	Toluene		0.28	J	0.25	0.25	2.0
156-60-5	trans-1,2-Dichloroethene		63		0.25	0.25	2.0
10061-02-6	trans-1,3-Dichloropropene		0.25	U	0.25	0.25	2.0
75-69-4	Trichlorofluoromethane		0.25	υ	0.25	0.25	2.0
108-05-4	Vinyl acetate		0.25	U	0.25	0.25	2.0
75-01-4	Vinyl chloride		12		0.25	0.25	2.0
1330-20-7	Xylenes, Total		0.75	ប	0.75	0.75	6.0
108-87-2	Methylcyclohexane		0.25	U	0.25	0.25	2.0
107-02-8	Acrolein		1.0	A.	K 1.0	1.0	10
107-13-1	Acrylonitrile		0.25	Å	UT0.25	0.25	2.0

Jor 1013119

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO. GW-5 @ 15-19" Lab Name: American Analytical Contract: Laboratories, LLC. Lab Code: <u>AAL</u> ClientID: <u>Berninger</u> SAS No.: SDG No.: <u>1908134</u> Matrix: <u>Liquid</u> Lab Sample ID: <u>1908134-005A</u> М Q 200

SW8260C

200

			-		1		
Sample wt/vol:	<u>5mL</u>		Lab Fil	le ID:	<u>V2-003</u>	<u>2.D</u>	
Level: (low/m	ed) <u>LOW</u>		Date Colle	ected:	8/15/2	019 10:0	1A 0(
% Moisture: <u>1</u>	N/A		Date Rece	eived:	8/15/2	019 4:20) <u>PM</u>
Extract Volume:	<u>5000(µl)</u>		Date Pre	epped:	8/27/2	019 9:59) AM
Seq Number:	<u>821915</u>		Date Anal	lyzed:	8/28/2	019 2:17	7 <u>AM</u>
GC Column: <u>V2</u>	08-01-19 SN#1629117	D	ilution Fa	actor:	100.00	• 1	
Column ID: <u>0</u> .	<u>18 (mm)</u>	Batc	h ID/ Ext	Mthd:	<u>23161/</u>	PT	
CAS NO.	COMPOUND	CONC. U	MITS: µg/	LQ	DL	LOD	LO
156-59-2	cis-1,2-Dichloroethene		10000	D	25	25	
79-01-6	Trichloroethene		1700	D	25	25	

Daga 10 af 600

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

T 1 3T		d I I		GW-5 @ 26-30'
Lab Name: <u>American An</u> <u>Laboratorie</u>	<u>alytical</u> s, LLC.	Contract:		
Lab Code: <u>AAL</u>	ClientID:	<u>Berninger</u>	SAS No.:	SDG No.: <u>1908134</u>
Matrix:	<u>Liquid</u>		Lab Sample ID:	<u>1908134-006A</u>
Sample wt/vol:	<u>5mL</u>		Lab File ID:	<u>V2-0071.D</u>
Level: (low/med)	LOW		Date Collected:	<u>8/15/2019 10:15 AM</u>
% Moisture: <u>N/A</u>			Date Received:	<u>8/15/2019 4:20 PM</u>
Extract Volume: 5000	<u>(µl)</u>		Date Prepped:	<u>8/23/2019 1:50 PM</u>
Seq Number: <u>822062</u>	1		Date Analyzed:	<u>8/24/2019 11:34 PM</u>
GC Column: <u>V2 08-01-</u>	<u>19 SN#162911</u>	.7	Dilution Factor:	1.00
Column ID: <u>0.18(mm)</u>	<u>_</u>		Batch ID/ Ext Mthd:	<u>23128/PT</u>

CAS NO.	COMPOUND CC	NC. UNITS:	µg/L	Q	DL	LOD	LOQ
630-20-6	1,1,1,2-Tetrachloroethane	C	.25	U	0.25	0.25	2.0
71-55-6	1,1,1-Trichloroethane	C	.25	U	0.25	0.25	2.0
79-34-5	1,1,2,2-Tetrachloroethane	C	.25	U	0.25	0.25	2.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethar	ne C	.25	U	0.25	0.25	2.0
79-00-5	1,1,2-Trichloroethane	C	.25	U	0.25	0.25	2.0
75-34-3	1,1-Dichloroethane	C	.25	U	0.25	0.25	2.0
75-35-4	1,1-Dichloroethene		12		0.25	0.25	2.0
563-58-6	1,1-Dichloropropene	C	.25	U	0.25	0.25	2.0
87-61-6	1,2,3-Trichlorobenzene	C	.25	U	0.25	0.25	2.0
96-18-4	1,2,3-Trichloropropane	C	.25	U	0.25	0.25	2.0
95-93-2	1,2,4,5-Tetramethylbenzene	C	.25	υ	0.25	0.25	2.0
120-82-1	1,2,4-Trichlorobenzene	C	.25	U	0.25	0.25	2.0
95-63-6	1,2,4-Trimethylbenzene	C	.25	υ	0.25	0.25	2.0
96-12-8	1,2-Dibromo-3-chloropropane	C	.25	U	0.25	0.25	2.0
106-93-4	1,2-Dibromoethane	C	.25	υ	0.25	0.25	2.0
95-50-1	1,2-Dichlorobenzene	C	.25	U	0.25	0.25	2.0
107-06-2	1,2-Dichloroethane	0	.25	υ	0.25	0.25	2.0
78-87-5	1,2-Dichloropropane	C	.25	U	0.25	0.25	2.0
108-67-8	1,3,5-Trimethylbenzene	0	.25	Ŭ	0.25	0.25	2.0
541-73-1	1,3-Dichlorobenzene	0	.25	U	0.25	0.25	2.0
142-28-9	1,3-dichloropropane	0	.25	U	0.25	0.25	2.0
106-46-7	1,4-Dichlorobenzene	0	.25	U	0.25	0.25	2.0
123-91-1	1,4-Dioxane	0	.25	U	0.25	0.25	1.0
594-20-7	2,2-Dichloropropane	0	.25	υ	0.25	0.25	2.0
78-93-3	2-Butanone	0	.50	<u>ν</u> Δ	0.50	0.50	4.0
110-75-8	2-Chloroethyl vinyl ether		10	K B	10	10	20
95-49-8	2-Chlorotoluene	0	.25	U	0.25	0.25	2.0
591-78-6	2-Hexanone	0	.50	U	0.50	0.50	4.0
67-63-0	2-Propanol	0	.25	U	0.25	0.25	2.0
106-43-4	4-Chlorotoluene	0	.25	U	0.25	0.25	2.0
99-87-6	4-Isopropyltoluene	0	.25	υ	0.25	0.25	2.0
108-10-1	4-Methyl-2-pentanone	0	.50	U	0.50	0.50	4.0
67-64-1	Acetone		30	-8	5.0	5.0	10

SW8260C

219/19

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

				GW-5 @ 26-30'
Lab Name: <u>Amer</u> Labo	<u>ican Analytical</u> ratories, LLC.	Contract:		
Lab Code: <u>AAL</u>	ClientID:	<u>Berninger</u>	SAS No.:	SDG No.: <u>1908134</u>
Matrix:	Liquid		Lab Sample ID:	<u>1908134-006A</u>
Sample wt/vol:	<u>5mL</u>		Lab File ID:	<u>V2-0071.D</u>
Level: (low/	med) <u>LOW</u>		Date Collected:	<u>8/15/2019 10:15 AM</u>
% Moisture:	<u>N/A</u>		Date Received:	<u>8/15/2019 4:20 PM</u>
Extract Volume:	<u>5000(µl)</u>		Date Prepped:	<u>8/23/2019 1:50 PM</u>
Seq Number:	822062		Date Analyzed:	<u>8/24/2019 11:34 PM</u>
GC Column: <u>V2</u>	08-01-19 SN#16291	17	Dilution Factor:	1.00
Column ID: ().18(mm)		Batch ID/ Ext Mthd:	<u>23128/PT</u>

CAS NO.	COMPOUND CON	C. UNITS: μg/	ЬQ	DL	LOD	LOQ
71-43-2	Benzene	0.25	υ	0.25	0.25	2.0
108-86-1	Bromobenzene	0.25	U	0.25	0.25	2.0
74-97-5	Bromochloromethane	0.25	U	0.25	0.25	2.0
75-27-4	Bromodichloromethane	0.25	U	0.25	0.25	2.0
75-25-2	Bromoform	0.25	ΰ	0.25	0.25	2.0
74-83-9	Bromomethane	0.25	U	0.25	0.25	2.0
75-15-0	Carbon disulfide	0.25	U	0.25	0.25	2.0
56-23-5	Carbon tetrachloride	0.25	U	0.25	0.25	2.0
108-90-7	Chlorobenzene	0.25	U	0.25	0.25	2.0
75-45-6	Chlorodifluoromethane	0.25	U	0.25	0.25	2.0
75-00-3	Chloroethane	0.25	U	0.25	0.25	2.0
67-66-3	Chloroform	0.25	U	0.25	0.25	2.0
74-87-3	Chloromethane	0.25	U	0.25	0.25	2.0
10061-01-5	cis-1,3-Dichloropropene	0.25	U	0.25	0.25	2.0
110-82-7	Cyclohexane	0.25	U	0.25	0.25	2.0
124-48-1	Dibromochloromethane	0.25	U	0.25	0.25	2.0
74-95-3	Dibromomethane	0.25	ט	0.25	0.25	2.0
75-71-8	Dichlorodifluoromethane	0.25	U	0.25	0.25	2.0
108-20-3	Diisopropyl ether	0.50	ט	0.50	0.50	2.0
64-17-5	Ethanol	2.5	John Star	R 2.5	2.5	10
100-41-4	Ethylbenzene	0.25	U	0.25	0.25	2.0
76-14-2	Freon-114	0.25	U	0.25	0.25	2.0
87-68-3	Hexachlorobutadiene	0.25	U	0.25	0.25	2.0
98-82-8	Isopropylbenzene	0.25	U	0.25	0.25	2.0
179601-23-1	m,p-Xylene	0.50	U	0.50	0.50	4.0
79-20-9	Methyl Acetate	0.25	U	0.25	0.25	2.0
1634-04-4	Methyl tert-butyl ether	0.25	U	0.25	0.25	2.0
75-09-2	Methylene chloride	5.5	B	0.25	0.25	2.0
104-51-8	n-Butylbenzene	0.25	U	0.25	0.25	2.0
103-65-1	n-Propylbenzene	0.25	U	0.25	0.25	2.0
91-20-3	Naphthalene	0.25	Ŭ	0.25	0.25	2.0
95-47-6	o-Xylene	0.25	U	0.25	0.25	2.0
105-05-5	p-Diethylbenzene	0.25	U	0.25	0.25	2.0

forg/9/19/19

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

				GW-5 @ 26-30'			
Lab Name: <u>American An</u> Laboratorie	<u>alytical</u> s, LLC.	Contract:					
Lab Code: <u>AAL</u>	ClientID:	<u>Berninger</u>	SAS No.:	SDG No.: <u>1908134</u>			
Matrix:	Liquid		Lab Sample ID:	<u>1908134-006A</u>			
Sample wt/vol:	<u>5mL</u>		Lab File ID:	<u>V2-0071.D</u>			
Level: (low/med)	LOW		Date Collected:	<u>8/15/2019 10:15 AM</u>			
% Moisture: <u>N/A</u>			Date Received:	<u>8/15/2019 4:20 PM</u>			
Extract Volume: <u>5000(µl)</u>			Date Prepped:	<u>8/23/2019 1:50 PM</u>			
Seq Number: <u>822062</u>			Date Analyzed:	<u>8/24/2019 11:34 PM</u>			
GC Column: <u>V2 08-01-19 SN#1629117</u>		Dilution Factor:	<u>1.00</u>				
Column ID: 0.18(mm)		Batch ID/ Ext Mthd:	<u>23128/PT</u>				

CAS NO.	COMPOUND	CONC.	UNITS: µg/1	ЬQ	DL	LOD	LOQ
622-96-8	p-Ethyltoluene		0.25	U	0.25	0.25	2.0
135-98-8	sec-Butylbenzene		0.25	U	0.25	0,25	2.0
100-42-5	Styrene		0.25	U	0.25	0.25	2.0
75-65-0	t-Butyl alcohol		2.5	U	2.5	2.5	10
98-06-6	tert-Butylbenzene		0.25	U	0.25	0.25	2.0
127-18-4	Tetrachloroethene		9.6		0.25	0.25	2.0
108-88-3	Toluene		0.25	U	0.25	0.25	2.0
156-60-5	trans-1,2-Dichloroethene		2.7		0.25	0.25	2.0
10061-02-6	trans-1,3-Dichloropropene		0.25	U	0.25	0.25	2.0
79-01-6	Trichloroethene		300		0.25	0.25	2.0
75-69-4	Trichlorofluoromethane		0.25	U	0.25	0.25	2.0
108-05-4	Vinyl acetate		0.25	U	0.25	0.25	2.0
75-01-4	Vinyl chloride		8.9		0.25	0.25	2.0
1330-20-7	Xylenes, Total		0.75	U	0.75	0.75	6.0
108-87-2	Methylcyclohexane		0.25	U	0.25	0.25	2.0
107-02-8	Acrolein		1.0	14	1.0	1.0	10
107-13-1	Acrylonitrile		0.25	2	1.0.25	0.25	2.0



VOLATILE SW-846 METHOD 8260

GW-5 @ 26-30' Lab Name: American Analytical Contract: Laboratories, LLC. Lab Code: AAL ClientID: Berninger SAS No.: SDG No.: 1908134 Matrix: Liquid Lab Sample ID: <u>1908134-006A</u> Sample wt/vol: <u>5mL</u> Lab File ID: <u>V2-0033.D</u> Level: (low/med) Date Collected: 8/15/2019 10:15 AM LOW % Moisture: Date Received: 8/15/2019 4:20 PM <u>N/A</u> Extract Volume: <u>5000(µl)</u> Date Prepped: 8/27/2019 9:59 AM Seq Number: Date Analyzed: 8/28/2019 2:47 AM 821916 GC Column: V2 08-01-19 SN#1629117 Dilution Factor: 50.00 Column ID: 0.18(mm) Batch ID/ Ext Mthd: 23161/PT CAS NO. CONC. UNITS: µg/L COMPOUND 0 DLLOD LOO 156-59-2 cis-1,2-Dichloroethene 570 D 13 100 13

SW8260C

CLIENT SAMPLE NO.
VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

				GW-6 @ 5-9'
Lab Name: <u>American An</u> <u>Laboratorie</u>	<u>alytical</u> Con <u>s, LLC.</u>	ntract:	-	
Lab Code: <u>AAL</u>	ClientID: <u>Be</u>	rninger S	SAS No.:	SDG No.: <u>1908134</u>
Matrix:	<u>Liquid</u>		Lab Sample II	: <u>1908134-007A</u>
Sample wt/vol:	<u>5mL</u>		Lab File II	: <u>V2-0074.D</u>
Level: (low/med)	LOW		Date Collected	: <u>8/15/2019 12:00 PM</u>
% Moisture: <u>N/A</u>			Date Received	: <u>8/15/2019 4:20 PM</u>
Extract Volume: <u>5000</u>	<u>(µl)</u>		Date Prepped	: <u>8/23/2019 1:50 PM</u>
Seq Number: <u>822065</u>			Date Analyzed	: <u>8/25/2019 1:05 AM</u>
GC Column: <u>V2 08-01-</u>	19 SN#1629117		Dilution Factor	: <u>1.00</u>
Column ID: <u>0.18(mm)</u>		E	Batch ID/ Ext Mtho	: <u>23128/PT</u>

CAS NO.	COMPOUND CONC.	UNITS: µg/	ЬQ	DL	LOD	LOQ
630-20-6	1,1,1,2-Tetrachloroethane	0.25	υ	0.25	0.25	2.0
71-55-6	1,1,1-Trichloroethane	0.25	U	0.25	0.25	2.0
79-34-5	1,1,2,2-Tetrachloroethane	0.25	U	0.25	0.25	2.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.25	U	0.25	0.25	2.0
79-00-5	1,1,2-Trichloroethane	0.25	U	0.25	0.25	2.0
75-34-3	1,1-Dichloroethane	0.25	ט	0.25	0.25	2.0
75-35-4	1,1-Dichloroethene	0.25	U	0.25	0.25	2.0
563-58-6	1,1-Dichloropropene	0.25	υ	0.25	0.25	2.0
87-61-6	1,2,3-Trichlorobenzene	0.25	U	0.25	0.25	2.0
96-18-4	1,2,3-Trichloropropane	0.25	υ	0.25	0.25	2.0
95-93-2	1,2,4,5-Tetramethylbenzene	0.25	U	0.25	0.25	2.0
120-82-1	1,2,4-Trichlorobenzene	0.25	ט	0.25	0.25	2.0
95-63-6	1,2,4-Trimethylbenzene	0.25	U	0.25	0.25	2.0
96-12-8	1,2-Dibromo-3-chloropropane	0.25	U	0.25	0.25	2.0
106-93-4	1,2-Dibromoethane	0.25	U	0.25	0.25	2.0
95-50-1	1,2-Dichlorobenzene	0.25	U	0.25	0.25	2.0
107-06-2	1,2-Dichloroethane	0.25	U	0.25	0.25	2.0
78-87-5	1,2-Dichloropropane	0.25	U	0.25	0.25	2.0
108-67-8	1,3,5-Trimethylbenzene	0.25	U	0.25	0.25	2.0
541-73-1	1,3-Dichlorobenzene	0.25	U	0.25	0.25	2.0
142-28-9	1,3-dichloropropane	0.25	U	0.25	0.25	2.0
106-46-7	1,4-Dichlorobenzene	0.25	U	0.25	0.25	2.0
123-91-1	1,4-Dioxane	0.25	U	0.25	0.25	1.0
594-20-7	2,2-Dichloropropane	0.25	U	0.25	0.25	2.0
78-93-3	2-Butanone	0.50	0 U	0.50	0.50	4.0
110-75-8	2-Chloroethyl vinyl ether	10	KN	10	10	20
95-49-8	2-Chlorotoluene	0.25	ט י	0.25	0.25	2.0
591-78-6	2-Hexanone	0.50	U	0.50	0.50	4.0
67-63-0	2-Propanol	0.25	U	0.25	0.25	2.0
106-43-4	4-Chlorotoluene	0.25	U	0.25	0.25	2.0
99-87-6	4-Isopropyltoluene	0.25	U	0.25	0.25	2.0
108-10-1	4-Methyl-2-pentanone	0.50	υ	0.50	0.50	4.0
67-64-1	Acetone	16	B	5.0	5.0	10

SW8260C Porg19/19

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

		-		GW-6 @ 5-9'
Lab Name: <u>American An</u> <u>Laboratorie</u>	<u>alytical</u> s, LLC.	Contract:	2	
Lab Code: <u>AAL</u>	ClientID:	<u>Berninger</u>	SAS No.:	SDG No.: <u>1908134</u>
Matrix:	<u>Liquid</u>		Lab Sample ID:	<u>1908134-007A</u>
Sample wt/vol:	<u>5mL</u>		Lab File ID:	<u>V2-0074.D</u>
Level: (low/med)	LOW		Date Collected:	8/15/2019 12:00 PM
% Moisture: <u>N/A</u>			Date Received:	8/15/2019 4:20 PM
Extract Volume: <u>5000</u>	<u>(µl)</u>		Date Prepped:	<u>8/23/2019 1:50 PM</u>
Seq Number: <u>822065</u>			Date Analyzed:	<u>8/25/2019 1:05 AM</u>
GC Column: <u>V2 08-01-</u>	19 SN#162911	L7	Dilution Factor:	1.00
Column ID: <u>0.18(mm)</u>	-		Batch ID/ Ext Mthd:	<u>23128/PT</u>

CAS NO.	COMPOUND CONC.	UNITS: µg/3	L Q	DL	LOD	LOQ
71-43-2	Benzene	0.25	U	0.25	0.25	2.0
108-86-1	Bromobenzene	0.25	U	0.25	0.25	2.0
74-97-5	Bromochloromethane	0.25	U	0.25	0.25	2.0
75-27-4	Bromodichloromethane	0.25	U	0.25	0.25	2.0
75-25-2	Bromoform	0.25	U	0.25	0.25	2.0
74-83-9	Bromomethane	0.25	U	0.25	0.25	2.0
75-15-0	Carbon disulfide	0.25	U	0.25	0.25	2.0
56-23-5	Carbon tetrachloride	0.25	U	0.25	0.25	2.0
108-90-7	Chlorobenzene	0.25	U	0.25	0.25	2.0
75-45-6	Chlorodifluoromethane	0.25	U	0.25	0.25	2.0
75-00-3	Chloroethane	0.25	U	0.25	0.25	2.0
67-66-3	Chloroform	0.25	U	0.25	0.25	2.0
74-87-3	Chloromethane	0.25	U	0.25	0.25	2.0
156-59-2	cis-1,2-Dichloroethene	6.8		0.25	0.25	2.0
10061-01-5	cis-1,3-Dichloropropene	0.25	ប	0.25	0.25	2.0
110-82-7	Cyclohexane	0.25	U	0.25	0.25	2.0
124-48-1	Dibromochloromethane	0.25	U	0.25	0.25	2.0
74-95-3	Dibromomethane	0.25	ט	0.25	0.25	2.0
75-71-8	Dichlorodifluoromethane	0.25	U	0.25	0.25	2.0
108-20-3	Diisopropyl ether	0.50	ט	0.50	0.50	2.0
64-17-5	Ethanol	2.5	4	2.5	2.5	10
100-41-4	Ethylbenzene	0.25	U	0.25	0.25	2.0
76-14-2	Freon-114	0.25	U	0.25	0.25	2.0
87-68-3	Hexachlorobutadiene	0.25	U	0.25	0.25	2.0
98-82-8	Isopropylbenzene	0.25	U	0.25	0.25	2.0
179601-23-1	m,p-Xylene	0.50	U	0.50	0,50	4.0
79-20-9	Methyl Acetate	0.25	υ	0.25	0.25	2.0
1634-04-4	Methyl tert-butyl ether	0.25	U	0.25	0.25	2.0
75-09-2	Methylene chloride	5.8	R	0.25	0.25	2.0
104-51-8	n-Butylbenzene	0.25	U	0.25	0.25	2.0
103-65-1	n-Propylbenzene	0.25	U	0.25	0.25	2.0
91-20-3	Naphthalene	0.25	U	0.25	0.25	2.0
95-47-6	o-Xylene	0.25	υ	0.25	0.25	2.0

SW8260C 8019/9/19

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

				GW-6 @ 5-9'
Lab Name: <u>American Ar</u> <u>Laboratorie</u>	<u>alytical</u> es, LLC.	Contract:		
Lab Code: <u>AAL</u>	ClientID:	<u>Berninger</u>	SAS No.:	SDG No.: <u>1908134</u>
Matrix:	Liquid		Lab Sample ID	: <u>1908134-007A</u>
Sample wt/vol:	<u>5mL</u>		Lab File ID	: <u>V2-0074.D</u>
Level: (low/med)	LOW		Date Collected	: <u>8/15/2019 12:00 PM</u>
% Moisture: <u>N/A</u>			Date Received	: <u>8/15/2019 4:20 PM</u>
Extract Volume: 500	<u>)(µl)</u>		Date Prepped	: <u>8/23/2019 1:50 PM</u>
Seq Number: <u>82206</u>	5		Date Analyzed	: <u>8/25/2019 1:05 AM</u>
GC Column: <u>V2 08-01</u>	-19 SN#16291	17	Dilution Factor	: <u>1.00</u>
Column ID: <u>0.18(mm</u>	<u>)</u>		Batch ID/ Ext Mthd	: <u>23128/PT</u>
		a		

CAS NO.	COMPOUND	CONC. U	NITS: µg/	ЬQ	DL	LOD	LOQ
105-05-5	p-Diethylbenzene		0.25	U	0.25	0.25	2.0
622-96-8	p-Ethyltoluene		0.25	U	0.25	0.25	2.0
135-98-8	sec-Butylbenzene		0.25	U	0.25	0.25	2.0
100-42-5	Styrene		0.25	ΰ	0.25	0.25	2.0
75-65-0	t-Butyl alcohol		2.5	ប	2.5	2.5	10
98-06-6	tert-Butylbenzene		0.25	U	0.25	0.25	2.0
127-18-4	Tetrachloroethene		0.25	U	0.25	0.25	2.0
108-88-3	Toluene		0.25	U	0.25	0.25	2.0
156-60-5	trans-1,2-Dichloroethene		0.25	U	0.25	0.25	2.0
10061-02-6	trans-1,3-Dichloropropene		0.25	U	0.25	0.25	2.0
79-01-6	Trichloroethene		0.25	U	0.25	0.25	2.0
75-69-4	Trichlorofluoromethane		0.25	U	0.25	0.25	2.0
108-05-4	Vinyl acetate		0.25	υ	0.25	0.25	2.0
75-01-4	Vinyl chloride		0.25	U	0.25	0.25	2.0
1330-20-7	Xylenes, Total		0.75	U	0.75	0.75	6.0
108-87-2	Methylcyclohexane		0.25	υ	0.25	0.25	2.0
107-02-8	Acrolein		1.0	J.	R 1.0	1.0	10
107-13-1	Acrylonitrile		0.25	4	U J 0.25	0.25	2.0

SW8260C

53/19

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

			GW-6 @ 15-19'
Lab Name: <u>American An</u> <u>Laboratorie</u>	<u>alytical</u> Contract: <u>s, LLC.</u>		
Lab Code: <u>AAL</u>	ClientID: <u>Berninger</u>	SAS No.:	SDG No.: <u>1908134</u>
Matrix:	Liquid	Lab Sample ID:	<u>1908134-008A</u>
Sample wt/vol:	<u>5mL</u>	Lab File ID:	<u>V2-0072.D</u>
Level: (low/med)	LOW	Date Collected:	<u>8/15/2019 11:45 AM</u>
% Moisture: <u>N/A</u>		Date Received:	<u>8/15/2019 4:20 PM</u>
Extract Volume: <u>5000</u>	<u>(µl)</u>	Date Prepped:	<u>8/23/2019 1:50 PM</u>
Seq Number: <u>822063</u>		Date Analyzed:	<u>8/25/2019 12:05 AM</u>
GC Column: <u>V2 08-01-</u>	<u>19 SN#1629117</u>	Dilution Factor:	<u>1.00</u>
Column ID: <u>0.18(mm)</u>	-	Batch ID/ Ext Mthd:	<u>23128/PT</u>

CAS NO.	COMPOUND	CONC.	UNITS: µg/	ΊL Q	DL	LOD	LOQ
630-20-6	1,1,1,2-Tetrachloroethane		0.25	ט	0.25	0.25	2.0
71-55-6	1,1,1-Trichloroethane		0.25	U	0.25	0.25	2.0
79-34-5	1,1,2,2-Tetrachloroethane		0.25	U	0.25	0.25	2.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroeth	ane	0.25	U	0.25	0.25	2.0
79-00-5	1,1,2-Trichloroethane		0.25	U	0.25	0.25	2.0
75-34-3	1,1-Dichloroethane		0.25	U	0.25	0.25	2.0
75-35-4	1,1-Dichloroethene		0.51	J	0.25	0.25	2.0
563-58-6	1,1-Dichloropropene		0.25	U	0.25	0.25	2.0
87-61-6	1,2,3-Trichlorobenzene		0.25	U	0.25	0.25	2.0
96-18-4	1,2,3-Trichloropropane		0.25	U	0.25	0.25	2.0
95-93-2	1,2,4,5-Tetramethylbenzene		0.25	U	0.25	0.25	2.0
120-82-1	1,2,4-Trichlorobenzene		0.25	U	0.25	0.25	2.0
95-63-6	1,2,4-Trimethylbenzene		0.25	U	0.25	0.25	2.0
96-12-8	1,2-Dibromo-3-chloropropane		0.25	U	0.25	0.25	2.0
106~93-4	1,2-Dibromoethane		0.25	U	0.25	0.25	2.0
95-50-1	1,2-Dichlorobenzene		0.25	U	0.25	0.25	2.0
107-06-2	1,2-Dichloroethane		0.25	U	0.25	0.25	2.0
78-87-5	1,2-Dichloropropane		0.25	U	0.25	0.25	2.0
108-67-8	1,3,5-Trimethylbenzene		0.25	U	0.25	0.25	2.0
541-73-1	1,3-Dichlorobenzene		0.25	U	0.25	0.25	2.0
142-28-9	1,3-dichloropropane		0.25	U	0.25	0.25	2.0
106-46-7	1,4-Dichlorobenzene		0.25	U	0.25	0.25	2.0
123-91-1	1,4-Dioxane		0.25	U	0.25	0.25	1.0
594-20-7	2,2-Dichloropropane		0.25	U	0.25	0.25	2.0
78-93-3	2-Butanone		0.50	O U	0.50	0.50	4.0
110-75-8	2-Chloroethyl vinyl ether		10	KO	10	10	20
95-49-8	2-Chlorotoluene		0.25	U	0.25	0.25	2.0
591-78-6	2-Hexanone		0.50	U	0.50	0.50	4.0
67-63-0	2-Propanol		0.25	U	0.25	0.25	2.0
106-43-4	4-Chlorotoluene		0.25	U	0.25	0.25	2.0
99-87-6	4-Isopropyltoluene		0.25	U	0.25	0.25	2.0
108-10-1	4-Methyl-2-pentanone		0.50	U	0.50	0.50	4.0
67-64-1	Acetone		24	-8	5.0	5.0	10

SW8260C for 9/9/19

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

			GW-6 @ 15-19'
Lab Name: <u>American Ana</u> Laboratories			
Lab Code ANI	ClientID: Berninger	CAG No .	SDG No + 1908134
Hab Couc. AAL	criencis. <u>Beininger</u>	DAD NO	500 NO 1900134
Matrix:	Liquid	Lab Sample ID:	<u>1908134-008A</u>
Sample wt/vol:	<u>5mL</u>	Lab File ID:	<u>V2-0072.D</u>
Level: (low/med)	LOW	Date Collected:	<u>8/15/2019 11:45 AM</u>
% Moisture: <u>N/A</u>		Date Received:	<u>8/15/2019 4:20 PM</u>
Extract Volume: 5000	<u>(µl)</u>	Date Prepped:	<u>8/23/2019 1:50 PM</u>
Seq Number: <u>822063</u>		Date Analyzed:	<u>8/25/2019 12:05 AM</u>
GC Column: <u>V2 08-01-</u>	<u>19 SN#1629117</u>	Dilution Factor:	1.00
Column ID: <u>0.18(mm)</u>	-	Batch ID/ Ext Mthd:	<u>23128/PT</u>

CAS NO.	COMPOUND	CONC.	UNITS: µg/	ЬQ	DL	LOD	LOQ
71-43-2	Benzene		0.25	U	0.25	0.25	2.0
108-86-1	Bromobenzene		0.25	U	0.25	0.25	2.0
74-97-5	Bromochloromethane		0.25	U	0.25	0.25	2.0
75-27-4	Bromodichloromethane		0.25	U	0.25	0.25	2.0
75-25-2	Bromoform		0.25	U	0.25	0.25	2.0
74-83-9	Bromomethane		0.25	U	0.25	0.25	2.0
75-15-0	Carbon disulfide		0.25	ט	0.25	0.25	2.0
56-23-5	Carbon tetrachloride		0.25	U	0.25	0.25	2.0
108-90-7	Chlorobenzene		0.25	U	0.25	0.25	2.0
75-45-6	Chlorodifluoromethane		0.25	U	0.25	0.25	2.0
75-00-3	Chloroethane		0.25	U	0.25	0.25	2.0
67-66-3	Chloroform		0.25	U	0.25	0.25	2.0
74-87-3	Chloromethane		0.25	U	0.25	0.25	2.0
156-59-2	cis-1,2-Dichloroethene		110		0.25	0.25	2.0
10061-01-5	cis-1,3-Dichloropropene		0.25	U	0.25	0.25	2.0
110-82-7	Cyclohexane		0.25	U	0.25	0.25	2.0
124-48-1	Dibromochloromethane		0.25	U	0.25	0.25	2.0
74-95-3	Dibromomethane		0.25	U	0.25	0.25	2.0
75-71-8	Dichlorodifluoromethane		0.25	U	0.25	0.25	2.0
108-20-3	Diisopropyl ether		0.50	ប	0.50	0.50	2.0
64-17-5	Ethanol		2.5	4	- 2.5	2.5	10
100-41-4	Ethylbenzene		0.25	U	0.25	0.25	2.0
76-14-2	Freon-114		0.25	U	0.25	0.25	2.0
87-68-3	Hexachlorobutadiene		0.25	U	0.25	0.25	2.0
98-82-8	Isopropylbenzene		0.25	U	0.25	0.25	2.0
179601-23-1	m,p-Xylene		0.50	U	0.50	0.50	4.0
79-20-9	Methyl Acetate		0.25	U	0.25	0.25	2.0
1634-04-4	Methyl tert-butyl ether		0.60	J	0.25	0.25	2.0
75-09-2	Methylene chloride		5.6	h	- 🕖 0.25	0.25	2.0
104-51-8	n-Butylbenzene		0.25	U	0.25	0.25	2.0
103-65-1	n-Propylbenzene		0.25	U	0.25	0.25	2.0
91-20-3	Naphthalene		0.25	ט	0.25	0.25	2.0
95-47-6	o-Xylene		0.25	U	0.25	0.25	2.0

SW8260C

foralalla

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

				GW-6 @ 15-19'
Lab Name: <u>American An</u> <u>Laboratorie</u>	<u>alytical</u> s, LLC.	Contract:		
Lab Code: <u>AAL</u>	ClientID:	<u>Berninger</u>	SAS No.:	SDG No.: <u>1908134</u>
Matrix:	<u>Liquid</u>		Lab Sample ID:	<u>1908134-008A</u>
Sample wt/vol:	<u>5mL</u>		Lab File ID:	<u>V2-0072.D</u>
Level: (low/med)	LOW		Date Collected:	<u>8/15/2019 11:45 AM</u>
% Moisture: <u>N/A</u>			Date Received:	<u>8/15/2019 4:20 PM</u>
Extract Volume: <u>5000</u>	<u>(µl)</u>		Date Prepped:	<u>8/23/2019 1:50 PM</u>
Seq Number: <u>822063</u>	Ĺ		Date Analyzed:	<u>8/25/2019 12:05 AM</u>
GC Column: <u>V2 08-01-</u>	19 SN#162911	17	Dilution Factor:	1.00
Column ID: 0.18(mm)	_		Batch ID/ Ext Mthd:	<u>23128/PT</u>

CAS NO.	COMPOUND	CONC.	UNITS: µg/	ЬQ	DL	LOD	LOQ
105-05-5	p-Diethylbenzene		0.25	ט	0.25	0.25	2.0
622-96-8	p-Ethyltoluene		0.25	U	0.25	0.25	2.0
135-98-8	sec-Butylbenzene		0.25	U	0.25	0.25	2.0
100-42-5	Styrene		0.25	U	0.25	0.25	2.0
75-65-0	t-Butyl alcohol		2.5	U	2.5	2.5	10
98-06-6	tert-Butylbenzene		0.25	U	0.25	0.25	2.0
127-18-4	Tetrachloroethene		0.25	U	0.25	0.25	2.0
108-88-3	Toluene		0.25	ប	0.25	0.25	2.0
156-60-5	trans-1,2-Dichloroethene		0.93	J	0.25	0.25	2.0
10061-02-6	trans-1,3-Dichloropropene		0.25	U	0.25	0.25	2.0
79-01-6	Trichloroethene		12		0.25	0.25	2.0
75-69-4	Trichlorofluoromethane		0.25	U	0.25	0.25	2.0
108-05-4	Vinyl acetate		0.25	U	0.25	0.25	2.0
75-01-4	Vinyl chloride		0.25	U	0.25	0.25	2.0
1330-20-7	Xylenes, Total		0.75	U	0.75	0.75	6.0
108-87-2	Methylcyclohexane		0.25	ט	0.25	0.25	2.0
107-02-8	Acrolein		1.0	فلر	1.0	1.0	10
107-13-1	Acrylonitrile		0.25	-0	0.25	0.25	2.0

SW8260C

80,613/19

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

	Jutical Contract		GW-6 @ 26-30'		
Lab Name: <u>American An</u> <u>Laboratorie</u>	<u>alytical</u> (s <u>, LLC.</u>	Contract:			
Lab Code: <u>AAL</u>	ClientID:	<u>Berninger</u>	SAS No.:	SDG No.: <u>1908134</u>	
Matrix:	<u>Liguid</u>		Lab Sample ID:	<u>1908134-009A</u>	
Sample wt/vol:	<u>5mL</u>		Lab File ID:	<u>V2-0034.D</u>	
Level: (low/med)	LOW		Date Collected:	<u>8/15/2019 11:30 AM</u>	
% Moisture: <u>N/A</u>			Date Received:	<u>8/15/2019 4:20 PM</u>	
Extract Volume: <u>5000</u>	<u>(µl)</u>		Date Prepped:	<u>8/27/2019 9:59 AM</u>	
Seq Number: <u>821917</u>	1		Date Analyzed:	<u>8/28/2019 3:17 AM</u>	
GC Column: <u>V2 08-01-</u>	19 SN#162911	7.	Dilution Factor:	1.00	
Column ID: <u>0.18(mm)</u>	-		Batch ID/ Ext Mthd:	<u>23161/PT</u>	

CAS NO.	COMPOUND	CONC.	UNITS: µg	/L Q	DL	LOD	LOQ
630-20-6	1,1,1,2-Tetrachloroethane		0.2	5 U	0.25	0.25	2.0
71-55-6	1,1,1-Trichloroethane		0.2	5 U	0.25	0.25	2.0
79-34-5	1,1,2,2-Tetrachloroethane		0.2	5 U	0.25	0.25	2.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroeth	nane	0.2	5 U	0.25	0.25	2.0
79-00-5	1,1,2-Trichloroethane		0.2	5 U	0.25	0.25	2.0
75-34-3	1,1-Dichloroethane		0.2	5 U	0.25	0.25	2.0
75-35-4	1,1-Dichloroethene		0.2	5 U	0.25	0.25	2.0
563-58-6	1,1-Dichloropropene		0.2	5 U	0.25	0.25	2.0
87-61-6	1,2,3-Trichlorobenzene		0.2	5 U	0.25	0.25	2.0
96-18-4	1,2,3-Trichloropropane		0.2	5 U	0.25	0.25	2.0
95-93-2	1,2,4,5-Tetramethylbenzene		0.2	5 U	0.25	0.25	2.0
120-82-1	1,2,4-Trichlorobenzene		0.2	5 U	0.25	0.25	2.0
95-63-6	1,2,4-Trimethylbenzene		0.2	5 U	0.25	0.25	2.0
96-12-8	1,2-Dibromo-3-chloropropane		0.2	5 U	0.25	0.25	2.0
106-93-4	1,2-Dibromoethane		0.2	5 ט	0.25	0.25	2.0
95-50-1	1,2-Dichlorobenzene		0.2	5 U	0.25	0.25	2.0
107-06-2	1,2-Dichloroethane		0.2	5 U	0.25	0.25	2.0
78-87-5	1,2-Dichloropropane		0.2	5 U	0.25	0.25	2.0
108-67-8	1,3,5-Trimethylbenzene		0.2	5 U	0.25	0.25	2.0
541-73-1	1,3-Dichlorobenzene		0.2	5 U	0.25	0.25	2.0
142-28-9	1,3-dichloropropane		0.2	5 U	0.25	0.25	2.0
106-46-7	1,4-Dichlorobenzene		0.2	5 U	0.25	0.25	2.0
123-91-1	1,4-Dioxane		0.2	5 U	0.25	0.25	1.0
594-20-7	2,2-Dichloropropane		0.2	5 U	0.25	0.25	2.0
78-93-3	2-Butanone		0.5	ט 🔪 ט	0.50	0.50	4.0
110-75-8	2-Chloroethyl vinyl ether		1	OKO	10	10	20
95-49-8	2-Chlorotoluene		0.2	5 U	0.25	0.25	2.0
591-78-6	2-Hexanone		0.5	0 U	0.50	0.50	4.0
67-63-0	2-Propanol		0.2	5 U	0.25	0.25	2.0
106-43-4	4-Chlorotoluene		0.2	5 U	0.25	0.25	2.0
99-87-6	4-Isopropyltoluene		0.2	5 U	0.25	0.25	2.0
108-10-1	4-Methyl-2-pentanone		0.5	0 U	0.50	0.50	4.0
67-64-1	Acetone		1	8 -8	5.0	5.0	10

SW8260C

119

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

GW-6 @ 26-30' Lab Name: American Analytical Contract: Laboratories, LLC. Lab Code: <u>AAL</u> ClientID: <u>Berninger</u> SAS No.: SDG No.: <u>1908134</u> Matrix: <u>Liquid</u> Lab Sample 1D: <u>1908134-009A</u> Sample wt/vol: <u>5mL</u> Lab File ID: V2-0034.D Level: (low/med) LOW Date Collected: 8/15/2019 11:30 AM % Moisture: <u>N/A</u> Date Received: 8/15/2019 4:20 PM Extract Volume: <u>5000(µl)</u> Date Prepped: 8/27/2019 9:59 AM Date Analyzed: 8/28/2019 3:17 AM Seq Number: <u>821917</u> GC Column: V2 08-01-19 SN#1629117 Dilution Factor: 1.00 Column ID: 0.18(mm) Batch ID/ Ext Mthd: 23161/PT

CAS NO.	COMPOUND CONC.	UNITS: µg/	L Q	DL	LOD	LOQ
71-43-2	Benzene	0.25	U	0.25	0.25	2.0
108-86-1	Bromobenzene	0.25	ט ו	0.25	0.25	2.0
74-97-5	Bromochloromethane	0.25	U	0.25	0.25	2.0
75-27-4	Bromodichloromethane	0.25	ט	0.25	0.25	2.0
75-25-2	Bromoform	0.25	υ	0.25	0.25	2.0
74-83-9	Bromomethane	0.25	U	0.25	0.25	2.0
75-15-0	Carbon disulfide	0.25	U	0.25	0.25	2.0
56-23-5	Carbon tetrachloride	0.25	U	0.25	0.25	2.0
108-90-7	Chlorobenzene	0.25	U	0.25	0.25	2.0
75-45-6	Chlorodifluoromethane	0.25	U	0.25	0.25	2.0
75-00-3	Chloroethane	0.25	U	0.25	0.25	2.0
67-66-3	Chloroform	0.25	U	0.25	0.25	2.0
74-87-3	Chloromethane	0.25	U	0.25	0.25	2.0
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	0.25	2.0
10061-01-5	cis-1,3-Dichloropropene	0.25	υ	0.25	0.25	2.0
110-82-7	Cyclohexane	0.25	υ	0.25	0.25	2.0
124-48-1	Dibromochloromethane	0.25	U	0.25	0.25	2.0
74-95-3	Dibromomethane	0.25	U	0.25	0.25	2.0
75-71-8	Dichlorodifluoromethane	0.25	U	0.25	0.25	2.0
108-20-3	Diisopropyl ether	0.50	ט	0.50	0.50	2.0
64-17-5	Ethanol	2.5	جلر	2.5	2.5	10
100-41-4	Ethylbenzene	0.25	U	0.25	0.25	2.0
76-14-2	Freon-114	0.25	ט	0.25	0.25	2.0
87-68-3	Hexachlorobutadiene	0.25	υ	0.25	0.25	2.0
98-82-8	Isopropylbenzene	0.25	U	0.25	0.25	2.0
179601-23-1	m,p-Xylene	0.50	U	0.50	0.50	4.0
79-20-9	Methyl Acetate	0.25	U	0.25	0.25	2.0
1634-04-4	Methyl tert-butyl ether	0.25	υ	0.25	0.25	2.0
75-09-2	Methylene chloride	6.9	P	0.25	0.25	2.0
104-51-8	n-Butylbenzene	0.25	U	0.25	0.25	2.0
103-65-1	n-Propylbenzene	0.25	U	0.25	0.25	2.0
91-20-3	Naphthalene	0.25	υ	0.25	0.25	2.0
95-47-6	o-Xylene	0.25	υ	0.25	0.25	2.0

SW8260C

orglalig

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

						GW-6 @ 26-30'	
Lab Name: <u>American An</u> <u>Laboratorie</u>		<u>alytical</u> Contract: <u>s, LLC.</u>			÷.		
Lab Code: <u>AAL</u>	Cl	lientID:	<u>Berninger</u>	SAS No.:		SDG No.:	<u>1908134</u>
Matrix:	Li	lguid		Lab Sa	mple ID:	<u>1908134-009</u>	A
Sample wt/vol:	<u>5m</u>	nL		Lab	File ID:	<u>V2-0034.D</u>	
Level: (low/m	ned) <u>LO</u>	WC		Date Co	llected:	8/15/2019 1	1:30 AM
<pre>% Moisture:</pre>	<u>N/A</u>			Date R	eceived:	8/15/2019 4	:20 PM
Extract Volume:	<u>5000(µl</u>	<u>1)</u>		Date	Prepped:	8/27/2019 9	:59 AM
Seq Number:	<u>821917</u>			Date A	nalyzed:	8/28/2019 3	:17 AM
GC Column: <u>V2</u>	08-01-19	SN#162911	7	Dilution	Factor:	1.00	
Column ID: 0	<u>.18(mm)</u>			Batch ID/ E	xt Mthd:	<u>23161/PT</u>	

CAS NO.	COMPOUND CONC.	UNITS: µg/	ьQ	DL	LOD	LOQ
105-05-5	p-Diethylbenzene	0.25	U	0.25	0.25	2.0
622-96-8	p-Ethyltoluene	0.25	U	0.25	0.25	2.0
135-98-8	sec-Butylbenzene	0.25	U	0.25	0.25	2.0
100-42-5	Styrene	0.25	U	0.25	0.25	2.0
75-65-0	t-Butyl alcohol	2.5	U	2.5	2.5	10
98-06-6	tert-Butylbenzene	0.25	ט	0.25	0.25	2.0
127-18-4	Tetrachloroethene	0.25	U	0.25	0.25	2.0
108-88-3	Toluene	0.25	U	0.25	0.25	2.0
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	0.25	2.0
10061-02-6	trans-1,3-Dichloropropene	0.25	U	0.25	0.25	2.0
79-01-6	Trichloroethene	0.25	ប	0.25	0.25	2.0
75-69-4	Trichlorofluoromethane	0.25	U	0.25	0.25	2.0
108-05-4	Vinyl acetate	0.25	U	0.25	0.25	2.0
75-01-4	Vinyl chloride	0.25	υ	0.25	0.25	2.0
1330-20-7	Xylenes, Total	0.75	U	0.75	0.75	6.0
108-87-2	Methylcyclohexane	0.25	U	0.25	0.25	2.0
107-02-8	Acrolein	1.0	-17	R 1.0	1.0	10
107-13-1	Acrylonitrile	0.25	A.	U 0.25	0.25	2.0

SW8260C

for [3]19

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

		a		Field Blank	
Lab Name:	American Ana Laboratories	alytical s, LLC.	Contract:	_	
Lab Code:	AAL	ClientID:	<u>Berninger</u>	SAS No.:	SDG No.: <u>1908134</u>
Matrix:		<u>Liquid</u>		Lab Sample ID:	<u>1908134-010A</u>
Sample wt/	vol:	<u>5mL</u>		Lab File ID:	<u>V2-0060.D</u>
Level:	(low/med)	LOW		Date Collected:	8/15/2019 12:30 PM
% Moisture	: <u>N/A</u>			Date Received:	<u>8/15/2019 4:20 PM</u>
Extract Vo	lume: <u>5000</u>	<u>(µl)</u>		Date Prepped:	8/23/2019 1:50 PM
Seq Number	: <u>822051</u>			Date Analyzed:	8/24/2019 6:04 PM
GC Column:	<u>V2 08-01-</u>	19 SN#162911	<u>17</u>	Dilution Factor:	1.00
Column ID:	<u>0.18(mm)</u>			Batch ID/ Ext Mthd:	<u>23128/PT</u>

CAS NO.	COMPOUND CC	ONC.	UNITS: µg/	L Q	DL	LOD	LOQ
630-20-6	1,1,1,2-Tetrachloroethane		0.25	ט ד	0.25	0.25	2.0
71-55-6	1,1,1-Trichloroethane		0.25	U	0.25	0.25	2.0
79-34-5	1,1,2,2-Tetrachloroethane		0.25	U	0.25	0.25	2.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroetha	ne	0.25	U	0.25	0.25	2.0
79-00-5	1,1,2-Trichloroethane		0.25	U	0.25	0.25	2.0
75-34-3	1,1-Dichloroethane		0.25	U	0.25	0.25	2.0
75-35-4	1,1-Dichloroethene		0.25	U	0.25	0.25	2.0
563-58-6	1,1-Dichloropropene		0.25	U	0.25	0.25	2.0
87-61-6	1,2,3-Trichlorobenzene		0.25	U	0.25	0.25	2.0
96-18-4	1,2,3-Trichloropropane		0.25	U	0.25	0.25	2.0
95-93-2	1,2,4,5-Tetramethylbenzene		0.25	U	0.25	0.25	2.0
120-82-1	1,2,4-Trichlorobenzene		0.25	U	0.25	0.25	2.0
95-63-6	1,2,4-Trimethylbenzene		0.25	U	0.25	0.25	2.0
96-12-8	1,2-Dibromo-3-chloropropane		0.25	U	0.25	0.25	2.0
106-93-4	1,2-Dibromoethane		0.25	U	0.25	0.25	2.0
95-50-1	1,2-Dichlorobenzene	1,2-Dichlorobenzene			0.25	0.25	2.0
107-06-2	1,2-Dichloroethane		0.25	U	0.25	0.25	2.0
78-87-5	1,2-Dichloropropane		0.25	U	0.25	0.25	2.0
108-67-8	1,3,5-Trimethylbenzene		0.25	U	0.25	0.25	2.0
541-73-1	1,3-Dichlorobenzene		0.25	U	0.25	0.25	2.0
142-28-9	1,3-dichloropropane		0.25	U	0.25	0.25	2.0
106-46-7	1,4-Dichlorobenzene		0.25	U	0.25	0.25	2.0
123-91-1	1,4-Dioxane		0.25	U	0.25	0.25	1.0
594-20-7	2,2-Dichloropropane		0.25	ប	0.25	0.25	2.0
78-93-3	2-Butanone		0.50	U	0.50	0.50	4.0
110-75-8	2-Chloroethyl vinyl ether		10	Ro	10	10	20
95-49-8	2-Chlorotoluene		0.25	U	0.25	0.25	2.0
591-78-6	2-Hexanone		0.50	U	0.50	0.50	4.0
67-63-0	2-Propanol		0.25	U	0.25	0.25	2.0
106-43-4	4-Chlorotoluene		0.25	υ	0.25	0.25	2.0
99-87-6	4-Isopropyltoluene		0.25	υ	0.25	0.25	2.0
108-10-1	4-Methyl-2-pentanone		0.74	J	0.50	0.50	4.0
67-64-1	Acetone		23	B	- 0 5.0	5.0	10

SW8260C Jong19/19

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

Г

	(20 10) LA 12	-		Field Blank
Lab Name: <u>American An</u> <u>Laboratorie</u>	<u>alytical</u> <u>s, LLC.</u>	Contract:		
Lab Code: <u>AAL</u>	ClientID:	<u>Berninger</u>	SAS No.:	SDG No.: <u>1908134</u>
Matrix:	Liquid		Lab Sample ID:	<u>1908134-010A</u>
Sample wt/vol:	<u>5mL</u>		Lab File ID:	<u>V2-0060.D</u>
Level: (low/med)	LOW		Date Collected:	<u>8/15/2019 12:30 PM</u>
% Moisture: <u>N/A</u>			Date Received:	<u>8/15/2019 4:20 PM</u>
Extract Volume: <u>5000</u>	(µl)		Date Prepped:	<u>8/23/2019 1:50 PM</u>
Seq Number: <u>822051</u>	-		Date Analyzed:	<u>8/24/2019 6:04 PM</u>
GC Column: <u>V2 08-01-</u>	19 SN#16291	17	Dilution Factor:	<u>1.00</u>
Column ID: <u>0.18(mm</u>)	<u>)</u>		Batch ID/ Ext Mthd:	<u>23128/PT</u>

CAS NO.	COMPOUND CO	ONC. UNITS: µg/	L Q	DL	LOD	LOQ
71-43-2	Benzene	0.25	U	0.25	0.25	2.0
108-86-1	Bromobenzene	0.25	U	0.25	0.25	2.0
74-97-5	Bromochloromethane	0.25	U	0.25	0.25	2.0
75-27-4	Bromodichloromethane	0.25	ט	0.25	0.25	2.0
75-25-2	Bromoform	0.25	U	0.25	0.25	2.0
74-83-9	Bromomethane	0.25	U	0.25	0.25	2.0
75-15-0	Carbon disulfide	0.25	U	0.25	0.25	2.0
56-23-5	Carbon tetrachloride	0.25	U	0.25	0.25	2.0
108-90-7	Chlorobenzene	0.25	U	0.25	0.25	2.0
75-45-6	Chlorodifluoromethane	0.25	U	0.25	0.25	2.0
75-00-3	Chloroethane	0.25	ט	0.25	0.25	2.0
67-66-3	Chloroform	0.25	ט	0.25	0.25	2.0
74-87-3	Chloromethane	0.25	U	0.25	0.25	2.0
156-59-2	cis-1,2-Dichloroethene	0.25	ט	0.25	0.25	2.0
10061-01-5	cis-1,3-Dichloropropene	0.25	U	0.25	0.25	2.0
110-82-7	Cyclohexane	0.25	U	0.25	0.25	2.0
124-48-1	Dibromochloromethane	0.25	U	0.25	0.25	2.0
74-95-3	Dibromomethane	0.25	U	0.25	0.25	2.0
75-71-8	Dichlorodifluoromethane	0.25	U	0.25	0.25	2.0
108-20-3	Diisopropyl ether	0.50	U	0.50	0.50	2.0
64-17-5	Ethanol	2.5	فله	× 2.5	2.5	10
100-41-4	Ethylbenzene	0.25	U	0.25	0.25	2.0
76-14-2	Freon-114	0.25	U	0.25	0.25	2.0
87-68-3	Hexachlorobutadiene	0.25	ប	0.25	0.25	2.0
98-82-8	Isopropylbenzene	0.25	U	0.25	0.25	2.0
179601-23-1	m,p-Xylene	0.50	U	0.50	0.50	4.0
79-20-9	Methyl Acetate	0.25	U	0.25	0.25	2.0
1634-04-4	Methyl tert-butyl ether	0.25	υ	0.25	0.25	2.0
75-09-2	Methylene chloride	4.8	4	0.25	0.25	2.0
104-51-8	n-Butylbenzene	0.25	U	0.25	0.25	2.0
103-65-1	n-Propylbenzene	0.25	U	0.25	0.25	2.0
91-20-3	Naphthalene	0.25	U	0.25	0.25	2.0
95-47-6	o-Xylene	0.25	U	0.25	0.25	2.0

SW8260C

forgialig

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

		a			Field Blank		
Lab Name:	American Ana Laboratories	<u>alytical</u> s, <u>LLC.</u>	<u>lytical</u> Contract: <u>, LLC.</u>				
Lab Code:	AAL	ClientID:	<u>Berninger</u>	SAS No.:		SDG No.:	<u>1908134</u>
Matrix:		<u>Liquid</u>		Lab S	Sample ID:	1908134-010	A
Sample wt/	vol:	<u>5mL</u>		Lal	o File ID:	<u>V2-0060.D</u>	
Level:	(low/med)	LOW		Date (Collected:	<u>8/15/2019 1</u>	2:30 PM
% Moisture	: <u>N/A</u>			Date	Received:	<u>8/15/2019 4</u>	:20 PM
Extract Vo	lume: <u>5000</u>	<u>(µl)</u>		Date	e Prepped:	8/23/2019 1	:50 PM
Seq Number	822051			Date	Analyzed:	<u>8/24/2019 6</u>	:04 PM
GC Column:	<u>V2 08-01-</u>	<u>19 SN#162911</u>	.7	Dilutio	on Factor:	1.00	
Column ID:	<u>0.18(mm)</u>			Batch ID/	Ext Mthd:	<u>23128/PT</u>	
	COMP				/=		

CAS NO.	COMPOUND	CONC.	UNITS: µg/1	ЬQ	DL	LOD	LOQ
105-05-5	p-Diethylbenzene		0.25	U	0.25	0.25	2.0
622-96-8	p-Ethyltoluene		0.25	U	0.25	0.25	2.0
135-98-8	sec-Butylbenzene		0.25	U	0.25	0.25	2.0
100-42-5	Styrene		0.25	U	0.25	0.25	2.0
75-65-0	t-Butyl alcohol		2.5	U	2.5	2.5	10
98-06-6	tert-Butylbenzene		0.25	U	0.25	0.25	2.0
127-18-4	Tetrachloroethene		0.25	U	0.25	0.25	2.0
108-88-3	Toluene		0.30	J	0.25	0.25	2.0
156-60-5	trans-1,2-Dichloroethene		0.25	U	0.25	0.25	2.0
10061-02-6	trans-1,3-Dichloropropene		0.25	U	0.25	0.25	2.0
79-01-6	Trichloroethene		0.25	U	0.25	0.25	2.0
75-69-4	Trichlorofluoromethane		0.25	U	0.25	0.25	2.0
108-05-4	Vinyl acetate		0.25	U	0.25	0.25	2.0
75-01-4	Vinyl chloride		0.25	U	0.25	0.25	2.0
1330-20-7	Xylenes, Total		0.75	U	0.75	0.75	6.0
108-87-2	Methylcyclohexane		0.25	U	0.25	0.25	2.0
107-02-8	Acrolein		1.0	-0	1.0	1.0	10
107-13-1	Acrylonitrile		0.25	-	U.T 0.25	0.25	2.0

SW8260C

80 FA3119

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

					Trip Blank		
Lab Name:	American Ana Laboratories	<u>alytical</u> 5, LLC.	Contract:				
Lab Code:	AAL	ClientID:	<u>Berninger</u>	SAS No.:	SDG No.: <u>1908134</u>		
Matrix:		<u>Liquid</u>		Lab Sample ID	<u>1908134-011A</u>		
Sample wt/v	vol:	<u>5mL</u>		Lab File ID	<u>V2-0061.D</u>		
Level:	(low/med)	LOW		Date Collected	<u>8/15/2019 12:00 AM</u>		
% Moisture	: <u>N/A</u>			Date Received	<u>8/15/2019 4:20 PM</u>		
Extract Vol	lume: <u>5000</u>	<u>(µl)</u>		Date Prepped	<u>8/23/2019 1:50 PM</u>		
Seq Number	: <u>822052</u>			Date Analyzed	<u>8/24/2019 6:34 PM</u>		
GC Column:	<u>V2 08-01-</u>	<u>19 SN#162911</u>	.7	Dilution Factor	<u>1.00</u>		
Column ID:	<u>0.18(mm)</u>			Batch ID/ Ext Mthd	23128/PT		
Seq Number GC Column: Column ID:	: <u>822052</u> <u>V2 08-01-</u> <u>0.18 (mm)</u>	<u>19 SN#162911</u>	.7	Date Analyzed Dilution Factor Batch ID/ Ext Mthd	8/24/2019 6:34 PM 1.00 23128/PT		

CAS NO.	COMPOUND	ONC.	UNITS: µg/	LQ	DL	LOD	LOQ
630-20-6	1,1,1,2-Tetrachloroethane		0.25	U	0.25	0.25	2.0
71-55-6	1,1,1-Trichloroethane		0.25	U	0.25	0.25	2.0
79-34-5	1,1,2,2-Tetrachloroethane		0.25	U	0.25	0.25	2.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroetha	ane	0.25	U	0.25	0.25	2.0
79-00-5	1,1,2-Trichloroethane		0.25	U	0.25	0.25	2.0
75-34-3	1,1-Dichloroethane		0.25	U	0.25	0.25	2.0
75-35-4	1,1-Dichloroethene		0.25	U	0.25	0.25	2.0
563-58-6	1,1-Dichloropropene		0.25	U	0.25	0.25	2.0
87-61-6	1,2,3-Trichlorobenzene		0.25	U	0.25	0.25	2.0
96-18-4	1,2,3-Trichloropropane		0.25	U	0.25	0.25	2.0
95-93-2	1,2,4,5-Tetramethylbenzene		0.25	U	0.25	0.25	2.0
120-82-1	1,2,4-Trichlorobenzene		0.25	U	0.25	0.25	2.0
95-63-6	1,2,4-Trimethylbenzene		0.25	ប	0.25	0.25	2.0
96-12-8	1,2-Dibromo-3-chloropropane		0.25	U	0.25	0.25	2.0
106-93-4	1,2-Dibromoethane		0.25	υ	0.25	0.25	2.0
95-50-1	1,2-Dichlorobenzene		0.25	U	0.25	0.25	2.0
107-06-2	1,2-Dichloroethane		0.25	U	0.25	0.25	2.0
78-87-5	1,2-Dichloropropane		0.25	U	0.25	0.25	2.0
108-67-8	1,3,5-Trimethylbenzene		0.25	U	0.25	0.25	2.0
541-73-1	1,3-Dichlorobenzene		0.25	ប	0.25	0.25	2.0
142-28-9	1,3-dichloropropane		0.25	ט	0.25	0.25	2.0
106-46-7	1,4-Dichlorobenzene		0.25	U	0.25	0.25	2.0
123-91-1	1,4-Dioxane		0.25	υ	0.25	0.25	1.0
594-20-7	2,2-Dichloropropane		0.25	U	0.25	0.25	2.0
78-93-3	2-Butanone		0.50	ע 🔪	0.50	0.50	4.0
110-75-8	2-Chloroethyl vinyl ether		10	Ko	10	10	20
95-49-8	2-Chlorotoluene		0.25	U	0.25	0.25	2.0
591-78-6	2-Hexanone		0.50	U	0.50	0.50	4.0
67-63-0	2-Propanol		0.25	ט	0.25	0.25	2.0
106-43-4	4-Chlorotoluene		0.25	U	0.25	0.25	2.0
99-87-6	4-Isopropyltoluene		0.25	υ	0.25	0.25	2.0
108-10-1	4-Methyl-2-pentanone		0.50	U	0.50	0.50	4.0
67-64-1	Acetone		29	2	5.0	5.0	10

SW8260C forg19/19

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

			Trip Blank
Lab Name: <u>American An</u> <u>Laboratorie</u>	<u>alytical</u> Contract: <u>s, LLC.</u>		
Lab Code: <u>AAL</u>	ClientID: <u>Berninge</u> :	r SAS No.:	SDG No.: <u>1908134</u>
Matrix:	Liquid	Lab Sample ID:	<u>1908134-011A</u>
Sample wt/vol:	<u>5mL</u>	Lab File ID:	<u>V2-0061.D</u>
Level: (low/med)	LOW	Date Collected:	<u>8/15/2019 12:00 AM</u>
% Moisture: <u>N/A</u>		Date Received:	8/15/2019 4:20 PM
Extract Volume: <u>5000</u>	<u>(µl)</u>	Date Prepped:	<u>8/23/2019 1:50 PM</u>
Seq Number: <u>822052</u>	<u>.</u>	Date Analyzed:	8/24/2019 6:34 PM
GC Column: <u>V2 08-01-</u>	19 SN#1629117	Dilution Factor:	1.00
Column ID: <u>0.18(mm)</u>	L	Batch ID/ Ext Mthd:	<u>23128/PT</u>

CAS NO.	COMPOUND	CONC.	UNITS: µg/	L Q	DL	LOD	LOQ
71-43-2	Benzene		0.25	U	0.25	0.25	2.0
108-86-1	Bromobenzene		0.25	ט	0.25	0.25	2.0
74-97-5	Bromochloromethane		0.25	U	0.25	0.25	2.0
75-27-4	Bromodichloromethane		0.25	U	0.25	0.25	2.0
75-25-2	Bromoform		0.25	U	0.25	0.25	2.0
74-83-9	Bromomethane		0.25	ט	0.25	0.25	2.0
75-15-0	Carbon disulfide		0.25	ט	0.25	0.25	2.0
56-23-5	Carbon tetrachloride		0.25	ט	0.25	0.25	2.0
108-90-7	Chlorobenzene		0.25	U	0.25	0.25	2.0
75-45-6	Chlorodifluoromethane		0.25	ט	0.25	0.25	2.0
75-00-3	Chloroethane		0.25	U	0.25	0.25	2.0
67-66-3	Chloroform		0.25	U	0.25	0.25	2.0
74-87-3	Chloromethane		0.25	U	0.25	0.25	2.0
156-59-2	cis-1,2-Dichloroethene		0.25	U	0.25	0.25	2.0
10061-01-5	cis-1,3-Dichloropropene		0.25	U	0.25	0.25	2.0
110-82-7	Cyclohexane		0.25	U	0.25	0.25	2.0
124-48-1	Dibromochloromethane		0.25	U	0.25	0.25	2.0
74-95-3	Dibromomethane		0.25	U	0.25	0.25	2.0
75-71-8	Dichlorodifluoromethane		0.25	U	0.25	0.25	2.0
108-20-3	Diisopropyl ether		0.50	U	0.50	0.50	2.0
64-17-5	Ethanol		2.5	10	2.5	2.5	10
100-41-4	Ethylbenzene		0.25	U	0.25	0.25	2.0
76-14-2	Freon-114		0.25	U	0.25	0.25	2.0
87-68-3	Hexachlorobutadiene		0.25	U	0.25	0.25	2.0
98-82-8	Isopropylbenzene		0.25	U	0.25	0.25	2.0
179601-23-1	m,p-Xylene		0.50	U	0.50	0.50	4.0
79-20-9	Methyl Acetate		0.25	U	0.25	0.25	2.0
1634-04-4	Methyl tert-butyl ether		0.25	υ	0.25	0.25	2.0
75-09-2	Methylene chloride		5.7	B	- 🕖 0.25	0.25	2.0
104-51-8	n-Butylbenzene		0.25	U	0.25	0.25	2.0
103-65-1	n-Propylbenzene		0.25	U	0.25	0.25	2.0
91-20-3	Naphthalene		0.25	U	0.25	0.25	2.0
95-47-6	o-Xylene		0.25	U	0.25	0.25	2.0

SW8260C foralglig

VOLATILE SW-846 METHOD 8260

CLIENT SAMPLE NO.

						Trip 1	Blank
Lab Name:	<u>American An</u> Laboratorie	alytical s, LLC.	Contract:				
Lab Code:	AAL	ClientID:	<u>Berninger</u>	SAS No.:		SDG No.	: 1908134
Matrix:		<u>Liquid</u>		Lab Sam	ple ID:	<u>1908134-01</u>	<u>.1A</u>
Sample wt/	vol:	<u>5mL</u>		Lab F	ile ID:	<u>V2-0061.D</u>	
Level:	(low/med)	LOW		Date Col	lected:	8/15/2019	12:00 AM
% Moisture	: <u>N/A</u>			Date Re	ceived:	8/15/2019	4:20 PM
Extract Vo	lume: <u>5000</u>	<u>(µl)</u>		Date P	repped:	8/23/2019	1:50 PM
Seq Number	: <u>822052</u>			Date An	alyzed:	8/24/2019	6:34 PM
GC Column:	<u>V2 08-01-</u>	<u>19 SN#16291</u>	17	Dilution	Factor:	1.00	
Column ID:	<u>0.18(mm)</u>	-		Batch ID/ Ex	t Mthd:	<u>23128/PT</u>	
CAC NO.	COND						

CAS NO.	COMPOUND	CONC.	UNITS: µg/	LQ	DL	LOD	LOQ
105-05-5	p-Diethylbenzene		0.25	U	0.25	0.25	2.0
622-96-8	p-Ethyltoluene		0.25	U	0.25	0.25	2.0
135-98-8	sec-Butylbenzene		0.25	U	0.25	0.25	2.0
100-42-5	Styrene		0.25	U	0.25	0.25	2.0
75-65-0	t-Butyl alcohol		2.5	U	2.5	2.5	10
98-06-6	tert-Butylbenzene		0.25	U	0.25	0.25	2.0
127-18-4	Tetrachloroethene		0.25	U	0.25	0.25	2.0
108-88-3	Toluene		0.25	U	0.25	0.25	2.0
156-60-5	trans-1,2-Dichloroethene		0.25	ប	0.25	0.25	2.0
10061-02-6	trans-1,3-Dichloropropene		0.25	ט	0.25	0.25	2.0
79-01-6	Trichloroethene		0.25	ט	0.25	0.25	2.0
75-69-4	Trichlorofluoromethane		0.25	ט	0.25	0.25	2.0
108-05-4	Vinyl acetate		0.25	υ	0.25	0.25	2.0
75-01-4	Vinyl chloride		0.25	U	0.25	0.25	2.0
1330-20-7	Xylenes, Total		0.75	ט	0.75	0.75	6.0
108-87-2	Methylcyclohexane		0.25	U	0.25	0.25	2.0
107-02-8	Acrolein		1.0	للر	1.0	1.0	10
107-13-1	Acrylonitrile		0.25	-7	0.25	0.25	2.0

SW8260C

3/19 101

Lab Name: Eurofins TestAmerica, Edison	Job No.: 460-188226-1
SDG No.:	
Client Sample ID: MW-1	Lab Sample ID: 460-188226-1
Matrix: Water	Lab File ID: U68044.D
Analysis Method: 8270D SIM	Date Collected: 07/31/2019 09:00
Extract. Method: 3510C	Date Extracted: 08/06/2019 08:33
Sample wt/vol: 250(mL)	Date Analyzed: 08/08/2019 01:20
Con. Extract Vol.: 2(mL)	Dilution Factor: 1
Injection Volume: 5(uL)	Level: (low/med) Low
% Moisture:	GPC Cleanup:(Y/N) N
Analysis Batch No.: 630393	Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.17	UPI	0.17	0.17

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	71		38-125

6119

Lab Name: Eurofins TestAmerica, Edison	Job No.: 460-188226-1
SDG No.:	
Client Sample ID: MW-1DUP	Lab Sample ID: 460-188226-2
Matrix: Water	Lab File ID: h2383264.D
Analysis Method: 8270D SIM	Date Collected: 07/31/2019 09:00
Extract. Method: 3510C	Date Extracted: 08/06/2019 11:40
Sample wt/vol: 250(mL)	Date Analyzed: 08/07/2019 09:38
Con. Extract Vol.: 2(mL)	Dilution Factor: 1
Injection Volume: 5(uL)	Level: (low/med) Low
% Moisture:	GPC Cleanup:(Y/N) N
Analysis Batch No.: 630104	Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.17	U*U	R 0.17	0.17

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	78		38-125

foranilla

Lab Name: Eurofins TestAmerica, Edison	Job No.: 460-188226-1
SDG No.:	
Client Sample ID: MW-3	Lab Sample ID: 460-188226-3
Matrix: Water	Lab File ID: U68028.D
Analysis Method: 8270D SIM	Date Collected: 07/31/2019 11:00
Extract. Method: 3510C	Date Extracted: 08/06/2019 08:33
Sample wt/vol: 250(mL)	Date Analyzed: 08/07/2019 09:05
Con. Extract Vol.: 2(mL)	Dilution Factor: 1
Injection Volume: 5(uL)	Level: (low/med) Low
% Moisture:	GPC Cleanup:(Y/N) N
Analysis Batch No.: 630106	Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.17	U.	JJ 0.17	0.17

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	83		38-125

forginila

Lab Name: Eurofins TestAmerica, Edison	Job No.: 460-188226-1
SDG No.:	
Client Sample ID: MW-6A	Lab Sample ID: 460-188226-4
Matrix: Water	Lab File ID: U68029.D
Analysis Method: 8270D SIM	Date Collected: 07/31/2019 12:00
Extract. Method: 3510C	Date Extracted: 08/06/2019 08:33
Sample wt/vol: 250(mL)	Date Analyzed: 08/07/2019 09:26
Con. Extract Vol.: 2(mL)	Dilution Factor: 1
Injection Volume: 5(uL)	Level: (low/med) Low
% Moisture:	GPC Cleanup:(Y/N) N
Analysis Batch No.: 630106	Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.17	V V	J 0.17	0.17

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	74		38-125

forgin119

Lab Name: Eurofins TestAmerica, Edison	Job No.: 460-188226-1
SDG No.:	
Client Sample ID: Field Blanks(F.B)	Lab Sample ID: 460-188226-5
Matrix: Water	Lab File ID: h2383259.D
Analysis Method: 8270D SIM	Date Collected: 07/31/2019 00:00
Extract. Method: 3510C	Date Extracted: 08/06/2019 08:33
Sample wt/vol: 250(mL)	Date Analyzed: 08/07/2019 07:52
Con. Extract Vol.: 2(mL)	Dilution Factor: 1
Injection Volume: 5(uL)	Level: (low/med) Low
% Moisture:	GPC Cleanup:(Y/N) N
Analysis Batch No.: 630104	Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91 - 1	1,4-Dioxane	0.17	U-U	0.17	0.17

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	80		38-125

foranl19

Lab Name: Eurofins TestAmerica, Sacramento	Job No.: 460-188226-1				
SDG No.:					
Client Sample ID: MW-1	Lab Sample ID: 460-188226-1				
Matrix: Water	Lab File ID: 2019.08.08LLC_058.d				
Analysis Method: 537 (modified)	Date Collected: 07/31/2019 09:00				
Extraction Method: 3535	Date Extracted: 08/08/2019 06:01				
Sample wt/vol: 280.2(mL)	Date Analyzed: 08/09/2019 08:26				
Con. Extract Vol.: 10.0(mL)	Dilution Factor: 1				
Injection Volume: 20(uL)	GC Column: Acquity ID: 2.1(mm)				
% Moisture:	GPC Cleanup:(Y/N) N				
Analysis Batch No.: 313696	Units: ng/L				

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2706-90-3	Perfluoropentanoic acid (PFPeA)	16.2		1.78	0.44
307-24-4	Perfluorohexanoic acid (PFHxA)	25.9		1.78	0.52
375-85-9	Perfluoroheptanoic acid (PFHpA)	29.0		1.78	0.22
335-67-1	Perfluorooctanoic acid (PFOA)	181		1.78	0.76
375-95-1	Perfluorononanoic acid (PFNA)	17.5		1.78	0.24
335-76-2	Perfluorodecanoic acid (PFDA)	17.1		1.78	0.28
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.45	J	1.78	0.98
307-55-1	Perfluorododecanoic acid (PFDoA)	0.49	U	1.78	0.49
72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.16	U	1.78	1.16
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.26	U	1.78	0.26
375-73-5	Perfluorobutanesulfonic acid (PFBS)	11.8		1.78	0.18
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	49.3	B	1.78	0.15
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	27.1		1.78	0.17
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.29	U	1.78	0.29
754-91-6	Perfluorooctanesulfonamide (FOSA)	18.9	B	1.78	0.31
2355-31-9	N-methylperfluorooctanesulfonamidoac etic acid (NMeFOSAA)	322		17.8	2.77
2991-50-6	N-ethylperfluorooctanesulfonamidoace tic acid (NEtFOSAA)	22.9		17.8	1.70
27619-97-2	6:2 FTS	1.78	U	17.8	1.78
39108-34-4	8:2 FTS	1.78	U	17.8	1.78

foran119

Lab Name: Eurofins TestAmerica, Sacramento	Job No.: 460-188226-1
SDG No.:	
Client Sample ID: MW-1 DL	Lab Sample ID: 460-188226-1 DL
Matrix: Water	Lab File ID: 2019.08.10LLAA_032.d
Analysis Method: 537 (modified)	Date Collected: 07/31/2019 09:00
Extraction Method: 3535	Date Extracted: 08/08/2019 06:01
Sample wt/vol: 280.2(mL)	Date Analyzed: 08/10/2019 20:59
Con. Extract Vol.: 10.0(mL)	Dilution Factor: 10
Injection Volume: 20(uL)	GC Column: GeminiC18 3x100 ID: 3(mm)
% Moisture:	GPC Cleanup:(Y/N) N
Analysis Batch No.: 314174	Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	12.4	J.F J	TP - 17.8	3.12

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	65		25-150

forginila

Lab Name: Eurofins TestAmerica, Sacramento	Job No.: 460-188226-1
SDG No.:	
Client Sample ID: MW-1 DL2	Lab Sample ID: 460-188226-1 DL2
Matrix: Water	Lab File ID: 2019.08.13 LLA_008.d
Analysis Method: 537 (modified)	Date Collected: 07/31/2019 09:00
Extraction Method: 3535	Date Extracted: 08/08/2019 06:01
Sample wt/vol: 280.2(mL)	Date Analyzed: 08/13/2019 10:07
Con. Extract Vol.: 10.0(mL)	Dilution Factor: 20
Injection Volume: 20(uL)	GC Column: GeminiC18 3x100 ID: 3(mm)
% Moisture:	GPC Cleanup:(Y/N) N
Analysis Batch No.: 314779	Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	3530	PY:	JD - 35.7	9.64

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00991	13C4 PFOS	75		25-150

foranila

Lab Name: Eurofins TestAmerica, Sacramento	Job No.: 460-188226-1
SDG No.:	
Client Sample ID: MW-1DUP	Lab Sample ID: 460-188226-2
Matrix: Water	Lab File ID: 2019.08.08LLC_063.d
Analysis Method: 537 (modified)	Date Collected: 07/31/2019 09:00
Extraction Method: 3535	Date Extracted: 08/08/2019 06:01
Sample wt/vol: 289.7(mL)	Date Analyzed: 08/09/2019 09:06
Con. Extract Vol.: 10.0(mL)	Dilution Factor: 1
Injection Volume: 20(uL)	GC Column: Acquity ID: 2.1(mm)
% Moisture:	GPC Cleanup:(Y/N) N
Analysis Batch No.: 313696	Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2706-90-3	Perfluoropentanoic acid (PFPeA)	14.9		1.73	0.42
307-24-4	Perfluorohexanoic acid (PFHxA)	26.7		1.73	0.50
375-85-9	Perfluoroheptanoic acid (PFHpA)	30.7		1.73	0.22
335-67-1	Perfluorooctanoic acid (PFOA)	186		1.73	0.73
375-95-1	Perfluorononanoic acid (PFNA)	20.9		1.73	0.23
335-76-2	Perfluorodecanoic acid (PFDA)	18.1		1.73	0.27
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.37	J	1.73	0.95
307-55-1	Perfluorododecanoic acid (PFDoA)	0.47	U	1.73	0.47
72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.12	U	1.73	1.12
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.25	U	1.73	0.25
375-73-5	Perfluorobutanesulfonic acid (PFBS)	12.1		1.73	0.17
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	48.0	B	1.73	0.15
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	26.5		1.73	0.16
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.28	U	1.73	0.28
754-91-6	Perfluorooctanesulfonamide (FOSA)	16.8	B	1.73	0.30
2355-31-9	N-methylperfluorooctanesulfonamidoac etic acid (NMeFOSAA)	341		17.3	2.68
2991-50-6	N-ethylperfluorooctanesulfonamidoace tic acid (NEtFOSAA)	21.1		17.3	1.64
27619-97-2	6:2 FTS	1.73	U	17.3	1.73
39108-34-4	8:2 FTS	1.73	U	17.3	1.73

foranilla

Lab Name: Eurofins TestAmerica, Sacramento	Job No.: 460-188226-1
SDG No.:	
Client Sample ID: MW-1DUP DL	Lab Sample ID: 460-188226-2 DL
Matrix: Water	Lab File ID: 2019.08.10LLAA_037.d
Analysis Method: 537 (modified)	Date Collected: 07/31/2019 09:00
Extraction Method: 3535	Date Extracted: 08/08/2019 06:01
Sample wt/vol: 289.7(mL)	Date Analyzed: 08/10/2019 21:39
Con. Extract Vol.: 10.0(mL)	Dilution Factor: 20
Injection Volume: 20(uL)	GC Column: GeminiCl8 3x100 ID: 3(mm)
% Moisture:	GPC Cleanup:(Y/N) N
Analysis Batch No.: 314174	Units: ng/L

375-22-4 Perfluorobutanoic acid (PFBA) 10.8 J D 34.5	MDL	RL	Q	RESULT	COMPOUND NAME	CAS NO.
	6.04	34.5	JD	10.8	Perfluorobutanoic acid (PFBA)	375-22-4
1763-23-1 Perfluorooctanesulfonic acid (PFOS) 3620 D 34.5	9.32	34.5	D	3620	Perfluorooctanesulfonic acid (PFOS)	1763-23-1

CAS NO.	ISOTOPE DILUTION	8REC	Q	LIMITS
STL00992	13C4 PFBA	57		25-150
STL00991	13C4 PFOS	61		25-150

goranila

Lab Name: Eurofins TestAmerica, Sacramento	Job No.: 460-188226-1		
SDG No.:			
Client Sample ID: MW-3	Lab Sample ID: 460-188226-3	}	
Matrix: Water	Lab File ID: 2019.08.08LLC_064.d		
Analysis Method: 537 (modified)	Date Collected: 07/31/2019 11:00		
Extraction Method: 3535	Date Extracted: 08/08/2019 06:01		
Sample wt/vol: 290.1(mL)	Date Analyzed: 08/09/2019 09:14		
Con. Extract Vol.: 10.0(mL)	Dilution Factor: 1		
Injection Volume: 20(uL)	GC Column: Acquity ID: 2.1(mm)		
% Moisture:	GPC Cleanup:(Y/N) N		
Analysis Batch No.: 313696	Units: ng/L		

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	5.77		1.72	0.30
2706-90-3	Perfluoropentanoic acid (PFPeA)	7.36		1.72	0.42
307-24-4	Perfluorohexanoic acid (PFHxA)	10.3		1.72	0.50
375-85-9	Perfluoroheptanoic acid (PFHpA)	7.20		1.72	0.22
335-67-1	Perfluorooctanoic acid (PFOA)	40.3		1.72	0.73
375-95-1	Perfluorononanoic acid (PFNA)	6.72		1.72	0.23
335-76-2	Perfluorodecanoic acid (PFDA)	2.94		1.72	0.27
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.95	U	1.72	0.95
307-55-1	Perfluorododecanoic acid (PFDoA)	0.47	U	1.72	0.47
72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.12	U	1.72	1.12
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.35	J	1.72	0.25
375-73-5	Perfluorobutanesulfonic acid (PFBS)	8.11		1.72	0.17
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	8.88	×	1.72	0.15
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	2.51		1.72	0.16
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	235	В	1.72	0.47
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.28	U	1.72	0.28
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.35	JBU	1.72	0.30
2355-31-9	N-methylperfluorooctanesulfonamidoac etic acid (NMeFOSAA)	2.67	U	17,2	2.67
2991-50-6	N-ethylperfluorooctanesulfonamidoace tic acid (NEtFOSAA)	1.64	υ	17.2	1.64
27619-97-2	6:2 FTS	1.72	U	17.2	1.72
39108-34-4	8:2 FTS	1.72	U	17.2	1.72

foranlig

Lab Name: Eurofins TestAmerica, Sacramento	Job No.: 460-188226-1
SDG No.:	
Client Sample ID: MW-6A	Lab Sample ID: 460-188226-4
Matrix: Water	Lab File ID: 2019.08.08LLC_065.d
Analysis Method: 537 (modified)	Date Collected: 07/31/2019 12:00
Extraction Method: 3535	Date Extracted: 08/08/2019 06:01
Sample wt/vol: 280.9(mL)	Date Analyzed: 08/09/2019 09:22
Con. Extract Vol.: 10.0(mL)	Dilution Factor: 1
Injection Volume: 20(uL)	GC Column: Acquity ID: 2.1(mm)
% Moisture:	GPC Cleanup:(Y/N) N
Analysis Batch No.: 313696	Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	4.83		1.78	0.31
2706-90-3	Perfluoropentanoic acid (PFPeA)	13.2		1.78	0.44
307-24-4	Perfluorohexanoic acid (PFHxA)	18.8		1.78	0.52
375-85-9	Perfluoroheptanoic acid (PFHpA)	21.2		1.78	0.22
335-67-1	Perfluorooctanoic acid (PFOA)	121		1.78	0.76
375-95-1	Perfluorononanoic acid (PFNA)	12.1		1.78	0.24
335-76-2	Perfluorodecanoic acid (PFDA)	6.97		1.78	0.28
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1,96		1.78	0.98
307-55-1	Perfluorododecanoic acid (PFDoA)	1.22	J	1.78	0.49
72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.16	U	1.78	1.16
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.42	J	1.78	0.26
375-73-5	Perfluorobutanesulfonic acid (PFBS)	14.2		1.78	0.18
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	111	K	1.78	0.15
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	55.4		1.78	0.17
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.28	U	1.78	0.28
754-91-6	Perfluorooctanesulfonamide (FOSA)	139	B	1.78	0.31
2355-31-9	N-methylperfluorooctanesulfonamidoac etic acid (NMeFOSAA)	229		17.8	2.76
2991-50-6	N-ethylperfluorooctanesulfonamidoace tic acid (NEtFOSAA)	3.07	J	17.8	1.69
27619-97-2	6:2 FTS	1.78	U	17.8	1.78
39108-34-4	8:2 FTS	1.78	U	17.8	1.78

goranila

Lab Name: Eurofins TestAmerica, Sacramento	Job No.: 460-188226-1			
SDG No.:				
Client Sample ID: MW-6A DL	Lab Sample ID: 460-188226-4 DL			
Matrix: Water	Lab File ID: 2019.08.10LLAA_038.d			
Analysis Method: 537 (modified)	Date Collected: 07/31/2019 12:00			
Extraction Method: 3535	Date Extracted: 08/08/2019 06:01			
Sample wt/vol: 280.9(mL)	Date Analyzed: 08/10/2019 21:47			
Con. Extract Vol.: 10.0(mL)	Dilution Factor: 10			
Injection Volume: 20(uL)	GC Column: GeminiC18 3x100 ID: 3(mm)			
% Moisture:	GPC Cleanup:(Y/N) N			
Analysis Batch No.: 314174	Units: ng/L			

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2380	PJD	17.8	4.81

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00991	13C4 PFOS	51		25-150

Joran 119

Lab Name: Eurofins TestAmerica, Sacramento	Job No.: 460-188226-1			
SDG No.:				
Client Sample ID: Field Blanks(F.B)	Lab Sample ID: 460-188226-5			
Matrix: Water	Lab File ID: 2019.08.10LLAA_030.d			
Analysis Method: 537 (modified)	Date Collected: 07/31/2019 00:00			
Extraction Method: 3535	Date Extracted: 08/08/2019 06:01			
Sample wt/vol: 286.7(mL)	Date Analyzed: 08/10/2019 20:43			
Con. Extract Vol.: 10.0(mL)	Dilution Factor: 1			
Injection Volume: 20(uL)	GC Column: GeminiC18 3x100 ID: 3(mm)			
% Moisture:	GPC Cleanup:(Y/N) N			
Analysis Batch No.: 314174	Units: ng/L			

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.31	U	1.74	0.31
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.43	U	1.74	0.43
307-24-4	Perfluorohexanoic acid (PFHxA)	0.51	U	1.74	0.51
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.22	U	1.74	0.22
335-67-1	Perfluorooctanoic acid (PFOA)	0.74	U	1.74	0.74
375-95-1	Perfluorononanoic acid (PFNA)	0.24	U	1.74	0.24
335-76-2	Perfluorodecanoic acid (PFDA)	0.27	U	1.74	0.27
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.96	U	1.74	0.96
307-55-1	Perfluorododecanoic acid (PFDoA)	0.48	U	1.74	0.48
72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.13	U	1.74	1.13
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.25	U	1.74	0.25
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.17	U	1.74	0.17
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.28	J	1.74	0.15
375-92-8	375-92-8 Perfluoroheptanesulfonic Acid (PFHpS)		U	1.74	0.17
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.47	U	1.74	0.47
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.28	U	1.74	0.28
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.31	U	1.74	0.31
2355-31-9	N-methylperfluorooctanesulfonamidoac etic acid (NMeFOSAA)	2.70	U	17.4	2.70
2991-50-6	N-ethylperfluorooctanesulfonamidoace tic acid (NEtFOSAA)	1.66	U	17.4	1.66
27619-97-2	6:2 FTS	1.74	U	17.4	1.74
39108-34-4	8:2 FTS	1.74	U	17.4	1.74

forginlig

Appendix-D

Validated SVI Data

DATA USABILITY SUMMARY REPORT – DUSR DATA VALIDATION SUMMARY

ORGANIC ANALYSIS

EPA Compendium Method TO-15 VOLATILES BY GC/MS

For Soil Vapor and Outside Air Samples Collected July 31, 2019 From 1345 Peninsula Boulevard, Hewlett, New York American Drive-In Cleaners Project #11391 Collected by WRS d.b.a. Berninger Environmental.

SAMPLE DELIVERY GROUP NUMBER: L1934510 Alpha Analytical (ELAP #11148)

SUBMITTED TO:

Mr. Justin Halpin WRS d.b.a. Berninger Environmental 17 Old Dock Road Yaphank, NY 11980

October 02, 2019

PREPARED BY:

Lori A. Beyer/President L.A.B. Validation Corp. 14 West Point Drive East Northport, NY 11731

four a suff

Phone (516) 523-7891 email LABValidation@aol.com

American Drive-In Cleaners

1345 Peninsula Boulevard, Hewlett, New York; July 2019. Data Validation Report: Volatile Organics by EPA Method TO15

Table of Contents:

Introduction Data Qualifier Definitions Sample Receipt

1.0 Volatile Organics by GC/MS EPA Compendium Method TO-15

- 1.1 Holding Time
- 1.2 Surrogate Standards
- 1.3 Matrix Spikes (MS), Matrix Spike Duplicates (MSD), Laboratory Duplicate, Field Duplicate Analysis
- 1.4 Laboratory Control Sample
- 1.5 Blank Contamination
- 1.6 GC/MS Instrument Performance Check
- 1.7 Initial and Continuing Calibrations
- 1.8 Internal Standards
- 1.9 Target Compound List Identification
- 1.10 Tentatively Identified Compounds
- 1.11 Compound Quantification and Reported Detection Limits
- 1.12 Overall System Performance

APPENDICES:

- A. Chain of Custody Document and Sample Receipt Checklist
- B. Case Narrative
- C. Data Summary Form I's with Qualifications

Phone (516) 523-7891 email LABValidation@aol.com

Introduction:

A validation was performed on five (5) soil vapor and one (1) outside air samples for Volatile Organic analysis collected by WRS d.b.a. Berninger Environmental and submitted to Alpha Analytical for subsequent analysis under chain of custody documentation. This report contains the laboratory and validation results for the field samples itemized below. The samples were collected on July 31, 2019

The samples were analyzed by Alpha Analytical utilizing EPA Method TO-15 and in accordance with NYSDEC Analytical Services Protocol (2005) and submitted under NYSDEC ASP Category B equivalent deliverable requirements for the associated analytical methodology employed. The analytical testing consisted of the TO-15 Compound List.

The data was evaluated in accordance with the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (Publication 9240.1-05), EPA SOP #HW31 (Revision 6-Updated September 2016) and in conjunction with the analytical methodology for which the samples were analyzed, where applicable and relevant.

Sample Identification	Laboratory	Sample Matrix	Collection Date
	Identification	(Air Type)	
SV-1	L1934510-01	Soil Vapor	07/31/2019
SV-2	L1934510-02	Soil Vapor	07/31/2019
SV-3	L1934510-03	Soil Vapor	07/31/2019
SV-4	L1934510-04	Soil Vapor	07/31/2019
SV-5	L1934510-05	Soil Vapor	07/31/2019
OA-1	L1934510-06	Outside Air	07/31/2019

The data validation report pertains to the following field air samples:

Data Qualifier Definitions:

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

U - The analyte was analyzed for but was not detected above the reported sample quantitation limit.

J - The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ - The result is an estimated quantity, but the result may be biased high. (Equis qualified, JK)

J- - The result is an estimated quantity, but the result may be biased low. (Equis qualified, JL)

NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ - The analyte was analyzed for but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R - The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.

D - Analyte concentration was obtained from diluted analysis.

Sample Receipt:

The Chain of Custody document from 7/31/2019 indicates that the air samples were received on 08/02/19 via laboratory courier following completion of the sampling event. Sample login notes and the chain of custody indicate that at the Validated Time of Sample Receipt (VTSR) at the laboratory no unresolved discrepancies were notated and therefore the integrity of the summa canister samples is assumed to be good.

Summa Canisters were leak tested prior to collection of each sample. Initial pressure gauge is recorded on the chain of custody and is required to be approximately 30 psi with zero air. Acceptable canister pressure was observed for these samples. All canisters pass the leak check requirements.

The data summary Form I's included in Appendix C includes all usable (qualified) and unusable (rejected) results for the samples identified above and summarize the detailed narrative section of the report. All data validation qualifications have been reported on the Form I's for ease of review and verification.

NOTE:

L.A.B. Validation Corp. believes it is appropriate to note that the data validation criteria utilized for data evaluation is different than the method requirements utilized by the laboratory. Qualified data does not necessarily mean that the laboratory was non-compliant in the analysis that was performed.

Phone (516) 523-7891 email LABValidation@aol.com

Volatile Organics by EPA Compendium Method TO-15

The following method criteria were reviewed: holding times, surrogate standards, LCS, Blanks, Laboratory Duplicate, Tunes, Calibrations, Internal Standards, Target Component Identification and Quantitation, Reported Quantitation Limits and Overall System Performance. The volatile results are valid and useable as noted on the data summary table in Appendix C and within the following text:

1.1 Holding Time

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J". The non-detects (sample quantitation limits) are required to be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

Air samples pertaining to this SDG were performed within the method and technical required holding times of thirty (30) days from sample collection for analysis. No qualifications were required based upon holding time criteria.

1.2 Surrogate Standards

All samples are spiked with surrogate compounds prior to sample analysis to evaluate overall laboratory performance and efficiency of the analytical technique. If the measure of surrogate concentrations is outside contract specifications, qualifications are required to be applied to associated samples and analytes.

Samples were not spiked with surrogate standards. Method TO15 does not mandate the addition of surrogate standards.

1.3 Matrix Spikes (MS)/ Matrix Spike Duplicates (MSD)/Laboratory Duplicate /Field Duplicate Analysis

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices.

Matrix Spike/Matrix Spike Duplicate analysis was not performed on samples pertaining to this SDG.

Batch Laboratory duplicate analysis was submitted in the data package. Acceptable precision (RPD) was observed (<25%) for all detected
compounds. Validation criteria uses <50% is used as a guidance for qualifying data.

Field Duplicate analysis was not required for this sampling event. Acceptable precision for air samples is 25%. The following criteria are utilized for Field/Lab Duplicate analysis when performed:

Criteria	Detected Compounds	Non-Detected Compounds
The RPD is within the limits of 0 and 25%	No qualification	No qualification
The RPD >25%	J in the parent and duplicate samples	Not applicable
The RPD could not be calculated since the compound was only detected in either the parent of duplicate sample. However, the detected concentration was =2x<br the reporting limit	No qualification	No qualification
The RPD could not be calculated since the compound was only detected in either the parent or duplicate sample However, the detected concentration was >2x the reporting limit.	J in the parent and duplicate sample	UJ in the parent of duplicate sample

No qualifications to the data were applied based on MS/MSD/Laboratory Duplicate and Field Duplicate analysis.

1.4 Laboratory Control Sample

The LCS data for laboratory control samples (LCS) are generated to provide information on the accuracy of the analytical method and on the laboratory performance.

The following table summarizes the LCS criteria and the data qualification guidelines for all associated field samples.

LCS	NOT QUALIFIED	J	R
% Recovery:			
Detects	70-130%	<70%,>130%	
Non-Detects	>/=130%	50-69%	<50%
Absolute RT of LCS			
Compounds:			
LCS Compounds in	+/-0.33		>/=0.33
samples RT: (min)			

Acceptable LCS was analyzed with this SDG pertaining to this sampling event. Recovery values for all spiked and reported compounds was determined to be >70%-<130% for all reported analytes except for 1,2,4-Trichlorobenzene (138%). This target analyte was not detected in any of the field samples. High recovery does not support any potential loss of detection and/or result bias for non-detects. No qualifications are required based on this outlier.

1.5 Blank Contamination

Quality assurance (QA) blanks; i.e. method, trip and field blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field blanks measure cross-contamination of samples during field operations. Storage blanks measure cross-contamination during sample storage of the field samples and are not required for TO15 analysis. Canister blanks measure cross-contamination from the sampling media.

The following table was utilized to qualify target analyte results due to method blank contamination. The largest value from all the associated blanks is required to be utilized. The largest value from all the associated blanks is required to be utilized:

Blank Type	Blank Result	Sample Result	Action for Samples
Method, Storage, field,	Detects	Not Detected	No qualification required
Trip, Instrument	<crql*< td=""><td><crql*< td=""><td>Report CRQL value with a U</td></crql*<></td></crql*<>	<crql*< td=""><td>Report CRQL value with a U</td></crql*<>	Report CRQL value with a U
		>/= CRQL* and <2x the CRQL**	No qualification required
	>CRQL*	= CRQL*</td <td>Report CRQL value with a U</td>	Report CRQL value with a U
		>/=CRQL* and = blank</td <td>Report blank value for sample concentration</td>	Report blank value for sample concentration
		concentration	with a U
		>/= CRQL* and > blank concentration	No qualification required
	=CRQL*	= CRQL*</td <td>Report CRQL value with a U</td>	Report CRQL value with a U
		>CRQL*	No qualification required
	Gross Contamination**	Detects	Report blank value for sample concentration with a U

*2x the CRQL for methylene chloride, 2-butanone and acetone.

4x the CRQL for methylene chloride, 2-butanone, and acetone *Qualifications based on instrument blank results affect only the sample analyzed immediately after the sample that has target compounds that exceed the calibration range or non-target compounds that exceed 100 ug/L. Below is a summary of the compounds in the sample and the associated qualifications that have been applied:

The table below is utilized to qualify samples with target compound results also present in certification blanks:

Certification	Sample Result	Action for Sample
Contamination		
>/=detect limit	>5x certification	No qualification required
	contamination	
>/=detect limit	<detect limit<="" td=""><td>Detection limit "U"</td></detect>	Detection limit "U"
>/=detect limit	>/=detect limit and	5x certification contamination "U"
	= 5x certification</td <td></td>	
	contamination level	

<detect limit<="" th=""><th><!--=detection limit</th--><th>No qualification</th></th></detect>	=detection limit</th <th>No qualification</th>	No qualification
	and >/= detection	
	limit	

Below is a summary of the compounds in the sample and the associated qualifications that have been applied:

A) Method Blank Contamination: Method and Canister blanks were determined to be free of any contamination.

*Acetone, Methylene Chloride and/or 2-Butanone was detected in the samples. The end user should proceed with caution when making decisions based on these detections since these are common solvents and/or laboratory contaminants utilized in the organic extraction laboratory. Laboratory reported concentrations could not be negated due to lack of presence in the corresponding method/canister blanks.

- B) Field Blank Contamination:
 Field Blank analysis was not required.
- C) Trip Blank Contamination: Trip Blank analysis was not required.

1.6 GC/MS Instrument Performance Check

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The Tuning standard for volatile organics is Bromofluorobenzene (BFB).

Instrument performance was generated within acceptable limits and frequency (24 hours) for Bromofluorobenzene (BFB) for all analyses conducted for this SDG.

1.7 Initial and Continuing Calibrations

Satisfactory instrument calibration is established to ensure that the instrument can produce acceptable quantitative data. An initial calibration demonstrates that the instrument can give acceptable performance at the beginning of an experimental sequence.

The continuing calibration checks document that the instrument is giving satisfactory daily performance.

A) Response Factor GC/MS:

The response factor measures the instrument's response to specific chemical compounds. The response factor for all compounds must be >/= 0.05 in both initial and continuing calibrations. A value <0.05 indicates a serious detection and quantitation problem (poor sensitivity). Analytes detected in the sample will be qualified as estimated, "J". All non-detects for that compound in the corresponding samples will be rejected, "R".

The following compounds can be >0.01 without qualification: 2-Butanone Carbon Disulfide Chloroethane Chloromethane 1,2-Dibromoethane 1,2-Dichloropropane 1,4-Dioxane 1,2-Dibromo-3-chloropropane Methylene Chloride

All the response factors for the target analytes reported were found to be within acceptable limits (>/=0.05) [or >/=0.01 for the 9 compounds above] and remaining analytes, for the initial and continuing calibrations.

B) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentrations. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be <30% and %D must be <30%. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ". If %RSD and %D grossly exceed QC criteria (>90%), non-detect data may be qualified, "R", unusable. Additionally, in cases where the %RSD is >30% and eliminating

either the high or the low point of the curve does not restore the %RSD to less than or equal to 30% then positive results are qualified, "J". In cases where removal of either the low or high point restores the linearity, then only low or high-level results will be qualified, "J" in the portion of the curve where non-linearity exists. Acceptable ICV was analyzed.

Initial Calibrations: The initial calibrations provided and the %RSD was within acceptable limits (30%) and (40%) for poor responders for all requested target compounds except for Isopropyl Alcohol (30.18%). Results in all samples have been qualified, "J/UJ." Initial calibration verification standard also met QC requirements.

Continuing Calibrations: The continuing calibrations provided and the %D was within acceptable limits (30%) and (40%) for poor responders for all reported compounds except for 1,2,4-Trichlorobenzene (32.6%). Non-detects have been qualified, "UJ."

1.8 Internal Standards

Internal Standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-40% to +40%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than +/-20 seconds from the associated continuing calibration standard. If the area count is outside the (-40% to +40%) range of the associated standard, all positive results for compounds quantitated using that IS are qualified as estimated, "J", and all non-detects as "UJ", or "R" if there is a severe loss of sensitivity.

If an internal standard retention time varies by more than 20 seconds, professional judgment will be used to determine either partial or total rejection of the data for that sample fraction.

Internal Standard area responses met QC requirements for all analysis pertaining to this data set as compared to the continuing calibration.

1.9 Target Compound List Identification

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within =/- 0.06RRT units of the standard

compound and have an ion spectrum which has a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound.

GC/MS spectra met the qualitative criteria for identification. All retention times were within required specifications.

1.10 Tentatively Identified Compounds (TICs)

TICs were not required for this project. When submitted, the identification must be considered tentative (both quantitative and qualitative) due to the lack of required compound specific response factors. Consequently, all concentrations should be considered estimated, "J" and because of the qualitative uncertainty should be qualified, "N" where an identification has been made.

TICs were not required with this data set.

1.11 Compound Quantification and Reported Detection Limits GC/MS quantitative analysis are acceptable. Correct internal standards and response factors and air volumes were used to calculate final concentrations.

Sample results have been presented in ug/m3 as well as ppbv on the laboratory reporting forms.

Samples were analyzed undiluted at 250mls as notated on the Form I's. The laboratory reported air volumes were verified with raw data and instrument run logs.

1.12 Overall System Performance

GC/MS analytical methodology was acceptable for this analysis. The data reported agrees with the raw data provided in the final report. The laboratory provided a complete data package and reported all data using acceptable protocols and laboratory qualifiers as defined in the report package.

Reviewer's Signature POU a Blip Date 10/02/2019

Appendix A Chain of Custody Document And Sample Receipt Checklist

0# L1934510	mation ent into PO #: 29 109 Requirements/Report Limits Program Res / Comm	YSIS ASR (AT-B NDC) Sample Comments (i.e. PID)	Pisase print obsity, legibly and completely. Samples can not be legible in and tumeround time dock will not start unit any ambie guilles are resolved. All samples guilles are resolved. All samples submitted are subject to Alpha's Terms and Conditions.
ALPHA Joi	Bilding Info of Same as Cl Regulatory State/Fed	AND	ate/Time:
Date Rec'd In Lab: 6 (3) 19	Report Information - Data Deliverables	BE FILED OUT Sample Sampler's Can ID 10.Flow 25 Matrix Initials Size Can Control of Cont	Container Type Container Type
VALYSIS MAGE_]GF	Project Information Project Information Project Lodifond Slud - Lewich NV Project Manager JH Project Manager JH ALPHA Quote # Turn-Around Time	Visandard J RUSH , our assumets to access the bue: Time: Tim	AA = Ambient Air (Indoce/Outdoor) SY = Soil Vapor Landfill Gav/SVE Optic = Please Specify Belinquisted By Date/Time
AIRA	CHAIN OF CUSTODY field. MA 02045 AX: 508-822-3288	D WSS.com been previously snalyzed by Aphi sciffic Requirements/Con Farget Compound List: arget Compound List: Sur - 1 Sur - 2 Sur - 4 Sur - 5 Sur - 5 Sur - 5 Sur - 5	MATRIX CODES
	A2D Forbes Bivd, Mans TEL: 508-822-9300 F Client Information Client: DEL Address: DEL	Email: Mul Pi Dither Project Specific 1 Project-Specific 1 (Lab Use Only) (Lab Use Only) 9 (Jab Use Only) 9	*SAMPLE



Sample Delivery Group Summary

Alpha Job Number : L1934510	Alpha Job Number : L1934510						
Account Name : WRS Envire Project Number : 11391	onmental Services, Inc.	Reviewer	: Dylan Shook				
Project Name : AMERICAN	J DRIVE-INN CLEANERS						
Delivery Information							
Samples Delivered By: Alpha Co	ourier						
Chain of Custody : Present							
Cooler Information							
Cooler Seal/Seal# NA Absent/	Preservation	Temperature(°C)	Additional Information				
Condition Information							
1) All samples on COC received?		YES					
2) Extra samples received?		NO					
3) Are there any sample container	r discrepancies?	NO					
4) Are there any discrepancies be	tween sample labels & CO	DC? NO					
5) Are samples in appropriate con	itainers for requested anal	ysis? YES					
6) Are samples properly preserved	d for requested analysis?	YES					
7) Are samples within holding time	e for requested analysis?	YES					
8) All sampling equipment returne	d?	YES					
Volatile Organics/VPH							
1) Reagent Water Vials Frozen by	NA						

 \tilde{V}

Appendix B Case Narrative

Project Name: AMERICAN DRIVE-INN CLEANERS Project Number: 11391

Lab Number: L1934510 Report Date: 08/09/19

Case Narrative

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

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

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

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

HOLD POLICY

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

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



Project Name:AMERICAN DRIVE-INN CLEANERSProject Number:11391

 Lab Number:
 L1934510

 Report Date:
 08/09/19

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on July 22, 2019. The canister certification results are provided as an addendum.

Sample Receipt

L1934510-02: The sample identified as "SV-2" on the chain of custody was identified as "(Blank)" on the container label. At the client's request, the sample is reported as "SV-2".

Volatile Organics in Air

anot applicable.

The WG1270244-3 LCS recovery for dodecane (c12) (138%) and 1,2,4-trichlorobenzene (138%) is above the upper 130% acceptance limit. All samples associated with this LCS do not have reportable amounts of this analyte.

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

Authorized Signature:

Galt Por

Report Date: 08/09/19



Title: Technical Director/Representative

Appendix C Data Summary Form I's with Qualifications

Client Projec Lab II Client Samp Samp Analyt Lab Fi Samp	INTAL Services, Inc. IVE-INN CLEANERS LA BLVD. HEWLETT, NY			Lab Ni Projec Date C Date F Date A Dilutio Analys Instrur GC Cc	umber t Number Collected Received Analyzed n Factor st nent ID Jumn	: L19 : 113 : 07/ : 08/ : 08/ : 1 : TS : AIR : RT)	: L1934510 : 11391 : 07/31/19 12:00 : 08/02/19 : 08/08/19 22:04 : 1 : TS : AIRPIANO1 : RTX-1		
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	
75-71-8	Dichlorodifluoromethane	ND	0.200		ND	0.989		U	
76 14 0		0.582	0.200	•	1.20	0.413	() (
76-14-2	View delayide	ND	0.200		ND	1.40		U	
100.00.0		0.876	0.200	***	2.24	0.511			
74.00.0	1,3-Butadiene	5,12	0.200		11.3	0.442	<u> </u>		
74-83-9	Bromomethane	ND	0.200		ND	0.777		U	
75-00-3	Chloroethane	0.641	0.200		1.69	0.528	77		
64-17-5	Ethyl Alcohol	5.10	5.00	9 8	9.61	9.42	## })		
593-60-2	Vinyl bromide	ND	0.200		ND	0.874		U	
67-64-1	Acetone	102	1.00	-	242	2.38	-		
75-69-4	Trichlorofluoromethane	0.558	0.200	-	3.14	1.12	-		
67-63-0	iso-Propyl Alcohol	1.48	0.500	-	3.64	1.23	0 - 01	J	
75-35-4	1,1-Dichloroethene	ND	0.200	:	ND	0.793	(111)	U	
75-65-0	tert-Butyl Alcohol	4.33	0.500		13.1	1,52	24423		
75-09-2	Methylene chloride	ND	0.500	200	ND	1.74	-	U	
107-05-1	3-Chloropropene	ND	0.200	-	ND	0.626	-	U	
75-15-0	Carbon disulfide	18.2	0.200		56.7	0.623	S 		
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	800	ND	1.53		U	
156-60-5	trans-1,2-Dichloroethene	4.81	0.200		19.1	0.793	842		
75-34-3	1,1-Dichloroethane	ND	0.200	-	ND	0.809	<u></u>	U	
1634-04-4	Methyl tert butyl ether	ND	0.200	1	ND	0.721	-	U	
78-93-3	2-Butanone	13.6	0.500	-	40.1	1.47			
156-59-2	cis-1,2-Dichloroethene	13.7	0.200		54.3	0.793			
141-78-6	Ethyl Acetate	ND	0.500		ND	1.80	-	U	
67-66-3	Chloroform	1.02	0.200	:===	4.98	0.977	-		
109-99-9	Tetrahydrofuran	ND	0.500	-	ND	1.47	-	U	
							2216		



Client: WRS EnvironnProject Name: AMERICAN DILab ID: L1934510-01Client ID: SV-1Sample Location: 1345 PENINSUSample Matrix: SOIL_VAPORAnalytical Method: 48,TO-15Lab File ID: R167923Sample Amount: 250 ml		mental Servi RIVE-INN C ULA BLVD.	ental Services, Inc. IVE-INN CLEANERS			umber t Number Collected Received analyzed n Factor tt nent ID blumn	: L1934510 : 11391 : 07/31/19 12:00 : 08/02/19 : 08/08/19 22:04 : 1 : TS : AIRPIANO1 : RTX-1		
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	
107-06-2	1,2-Dichloroethane	ND	0.200	×	ND	0.809	1 5 70	U	
110-54-3	n-Hexane	63.9	0.200	1 717 (225	0.705			
71-55-6	1,1,1-Trichloroethane	ND	0.200		ND	1.09	999 1997	U	
71-43-2	Benzene	12.0	0.200	-	38.3	0.639			
56-23-5	Carbon tetrachloride	ND	0.200	2	ND	1.26	-	U	
110-82-7	Cyclohexane	11.3	0.200	÷	38.9	0.688			
78-87-5	1,2-Dichloropropane	ND	0.200)	ND	0.924	-	U	
75-27-4	Bromodichloromethane	ND	0.200		ND	1.34	H 2	U	_
1330-20-7	Xylene (Total)	3.52	0.200	44 0	15.3	0.869	<u></u>		
123-91-1	1,4-Dioxane	ND	0.200	-	ND	0.721		U	
79-01-6	Trichloroethene	5.13	0.200	=	27.6	1.07	-		
540-84-1	2,2,4-Trimethylpentane	ND	0.200	-	ND	0.934	()=)	U	
142-82-5	Heptane	15.9	0.200	-	65.2	0.820	5 2		
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	8 4 0	ND	0.908	-	U	
108-10-1	4-Methyl-2-pentanone	ND	0.500	-	ND	2.05	-	U .	
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	-	ND	0.908	-	U	_
79-00-5	1,1,2-Trichloroethane	ND	0.200		ND	1.09	-	U	_
108-88-3	Toluene	7.06	0.200		26.6	0.754			-
540-59-0	1,2-Dichloroethene (total)	18.5	0.200	820	73.3	0.793	122		
591-78-6	2-Hexanone	ND	0.200	120	ND	0.820	-	U	
124-48-1	Dibromochloromethane	ND	0.200	-	ND	1.70		U	=
542-75-6	1,3-Dichloropropene, Total	ND	0.200		ND	0.908	-	U	-
106-93-4	1,2-Dibromoethane	ND	0.200		ND	1.54		U	-
127-18-4	Tetrachloroethene	2.34	0.200	-	15.9	1.36	-22		_
108-90-7	Chlorobenzene	ND	0.200	7 .	ND	0.921		U	
100-41-4	Ethylbenzene	0.773	0.200		3.36	0.869			



Client: WRS IProject Name: AMERLab ID: L1934:Client ID: SV-1Sample Location: 1345 FSample Matrix: SOIL_Analytical Method: 48,TOLab File ID: R1679Sample Amount: 250 million		: WRS Environm : AMERICAN DR : L1934510-01 : SV-1 : 1345 PENINSU : SOIL_VAPOR : 48,TO-15 : R167923 : 250 ml	PITAL SERVICES, INC. IVE-INN CLEANERS LA BLVD. HEWLETT, NY			Lab Number Project Number Date Collected Date Received Date Analyzed Dilution Factor Analyst Instrument ID GC Column		: L19 : 113 : 07/3 : 08/0 : 08/0 : 1 : TS : AIR : RT)	34510 91 31/19 12:00 02/19 08/19 22:04 PIANO1 K-1	
CAS NO.	Parameter		Results	BL	MDL	Results	ug/ma RI	MDI	Qualifier	
-					MDE	nesuns	115		Quaimer	-
179601-23-1	p/m-Xylene		2.49	0.400		10.8	1.74			
75-25-2	Bromoform		ND	0.200		ND	2.07		U	
100-42-5	Styrene		0.287	0.200	**	1.22	0.852	444		
79-34-5	1,1,2,2-Tetra	chloroethane	ND	0.200		ND	1.37	946) 1	U	
95-47-6	o-Xylene		1.04	0.200		4.52	0.869	-		
622-96-8	4-Ethyltoluen	e	0.235	0.200		1.16	0.983	-		
108-67-8	1,3,5-Trimeth	nylbenzene	0.318	0.200	-	1.56	0.983			
95-63-6	1,2,4-Trimeth	ylbenzene	1.12	0.200		5.51	0.983	<u></u>		
100-44-7	Benzyl chlori	de	ND	0.200	-	ND	1.04	-	U	
541-73-1	1,3-Dichlorob	enzene	ND	0.200		ND	1.20		U	
106-46-7	1,4-Dichlorob	enzene	ND	0.200		ND	1.20	 :	U	
95-50-1	1,2-Dichlorob	enzene	ND	0.200	-	ND	1.20		U	-
120-82-1	1,2,4-Trichlor	obenzene	ND	0.200	91 0	ND	1.48	nicij	JU (IT	_
87-68-3	Hexachlorob	utadiene	ND	0.200	<u></u>	ND	2.13		U	



Client: WRS EnvironmeProject Name: AMERICAN DRILab ID: L1934510-02Client ID: SV-2Sample Location: 1345 PENINSUISample Matrix: SOIL_VAPORAnalytical Method: 48,TO-15Lab File ID: R167924Sample Amount: 250 ml		intal Services, Inc. IVE-INN CLEANERS LA BLVD. HEWLETT, NY			Lab Number: L1934510Project Number: 11391Date Collected: 07/31/19 1Date Received: 08/02/19Date Analyzed: 08/08/19 2Dilution Factor: 1Analyst: TSInstrument ID: AIRPIANCGC Column: RTX-1			934510 991 31/19 12:00 02/19 08/19 22:37 PIANO1 X-1) 12:00 22:37 D1
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	
75-71-8	Dichlorodifluoromethane	ND	0.200		ND	0.989	-	U	
/4-8/-3	Chloromethane	0.758	0.200		1.57	0.413			
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethan	ND	0.200	3 44 0	ND	1.40		U	
75-01-4	Vinyl chloride	ND	0.200		ND	0.511		U	
106-99-0	1,3-Butadiene	0.260	0.200	-	0.575	0.442			
74-83-9	Bromomethane	ND	0.200		ND	0.777	-	U	
75-00-3	Chloroethane	ND	0.200		ND	0.528		U	
64-17-5	Ethyl Alcohol	32.7	5.00	-	61.6	9.42	<u></u>		
593-60-2	Vinyl bromide	ND	0.200	3	ND	0.874		U	
67-64-1	Acetone	45.3	1.00	3	108	2.38			
75-69-4	Trichlorofluoromethane	1.08	0.200	æ.	6.07	1.12	***		
67-63-0	iso-Propyl Alcohol	32,8	0,500		80.6	1.23	 .	J	
75-35-4	1,1-Dichloroethene	ND	0.200	##3	ND	0.793	-	U	
75-65-0	tert-Butyl Alcohol	20.1	0.500	щ	60.9	1.52			
75-09-2	Methylene chloride	5.62	0.500		19.5	1.74	174		
107-05-1	3-Chloropropene	ND	0.200		ND	0.626		U	
75-15-0	Carbon disulfide	1.88	0.200	-	5.85	0.623	**		
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	43	ND	1.53		U	
156-60-5	trans-1,2-Dichloroethene	0.330	0.200	Ш.)	1.31	0.793	-		
75-34-3	1,1-Dichloroethane	ND	0.200	-	ND	0.809	-	U	
1634-04-4	Methyl tert butyl ether	ND	0.200		ND	0.721		U	
78-93-3	2-Butanone	5,03	0.500		14.8	1.47	-		
156-59-2	cis-1,2-Dichloroethene	1.58	0.200	-	6.26	0.793			
141-78-6	Ethyl Acetate	2,38	0.500	700	8.58	1.80	-		
67-66-3	Chloroform	0.254	0.200	-	1.24	0.977	-		
109-99-9	Tetrahydrofuran	1.52	0.500	c.577	4.48	1.47			

119



Client: WRS EnvironmProject Name: AMERICAN DRLab ID: L1934510-02Client ID: SV-2Sample Location: 1345 PENINSUSample Matrix: SOIL_VAPORAnalytical Method: 48,TO-15Lab File ID: R167924Sample Amount: 250 ml		ental Services, Inc. IVE-INN CLEANERS LA BLVD. HEWLETT, NY			Lab Nu Project Date C Date R Date A Dilution Analys Instrun GC Co	Imber tollected leceived nalyzed n Factor t nent ID lumn	: L1934510 : 11391 : 07/31/19 12:00 : 08/02/19 : 08/08/19 22:37 : 1 : TS : AIRPIANO1 : RTX-1		
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	
107-06-2	1,2-Dichloroethane	ND	0.200		ND	0.809	anc-	U	
110-54-3	n-nexane	2.90	0.200		10.2	0.705	-		_
/1-55-6	1,1,1-I richloroethane	ND	0.200		ND	1.09		U	_
71-43-2	Benzene	4.28	0.200		13.7	0.639			
56-23-5	Carbon tetrachloride	ND	0.200		ND	1.26	-	U	
110-82-7	Cyclohexane	1.14	0.200		3.92	0.688	2741 		
78-87-5	1,2-Dichloropropane	ND	0.200	-	ND	0.924		U	
75-27-4	Bromodichloromethane	ND	0.200	-	ND	1.34		U	
1330-20-7	Xylene (Total)	6.11	0.200		26.5	0.869			_
123-91-1	1,4-Dioxane	ND	0.200	-	ND	0.721	-	U	
79-01-6	Trichloroethene	6.07	0.200		32.6	1.07			
540-84-1	2,2,4-Trimethylpentane	2,57	0.200		12.0	0.934	-		
142-82-5	Heptane	2.10	0.200		8.61	0.820			
10061-01-5	cis-1,3-Dichloropropene	ND	0.200		ND	0.908	-	U	
108-10-1	4-Methyl-2-pentanone	3.86	0.500	Æ	15.8	2.05			
10061-02-6	trans-1,3-Dichloropropene	ND	0.200		ND	0.908	att.	U	
79-00-5	1,1,2-Trichloroethane	ND	0.200	-	ND	1.09	-	U	
108-88-3	Toluene	69.1	0.200	-	260	0.754			
540-59-0	1,2-Dichloroethene (total)	1.91	0.200		7.57	0.793	22) 		
591-78-6	2-Hexanone	ND	0.200		ND	0.820	-	U	
542-75-6	1,3-Dichloropropene, Total	ND	0.200	R.	ND	0.908		U	_
124-48-1	Dibromochloromethane	ND	0,200	÷	ND	1.70		U	
106-93-4	1,2-Dibromoethane	ND	0.200	H•1	ND	1.54	<u></u> :	U	-
127-18-4	Tetrachloroethene	3.21	0.200	8 3	21,8	1.36	<u>m</u> y		
108-90-7	Chlorobenzene	ND	0.200		ND	0.921	-	U	_
100-41-4	Ethylbenzene	1.44	0.200	₩.	6.25	0.869	10 2		



CAS NO. Parameter Results RL MDL Results RL MDL Qualifier 179601-23-1 p/m-Xylene 4.40 0.400 19.1 1.74 75-25-2 Bromoform ND 0.200 ND 2.07 U 100-42-5 Styrene 0.363 0.200 ND 1.37 U 95-47-6 o-Xylene 1.71 0.200 ND 1.37 U 95-47-6 o-Xylene 1.71 0.200 7.43 0.869 622-96-8 4-Ethyltoluene 0.419 0.200 2.06 0.983 108-67-8 1,3,5-Trimethylbenzene 0.548 0.200 10.0 0.983 100-44-7 Benzyl chloride ND 0.200 ND 1.04 U 541-73-1 1,3-Dichlorobenzene ND 0.200	Client: WRS EnvironmProject Name: AMERICAN DILab ID: L1934510-02Client ID: SV-2Sample Location: 1345 PENINSUSample Matrix: SOIL_VAPORAnalytical Method: 48,TO-15Lab File ID: R167924Sample Amount: 250 ml		ental Servi IVE-INN C LA BLVD.	ices, Inc. CLEANER HEWLET	S T, NY	Lab Number Project Number Date Collected Date Received Date Analyzed Dilution Factor Analyst Instrument ID GC Column		: L1934510 : 11391 : 07/31/19 12:00 : 08/02/19 : 08/08/19 22:37 : 1 : TS : AIRPIANO1 : RTX-1			
179601-23-1 p/m-Xylene 4.40 0.400 19.1 1.74 75-25-2 Bromotorm ND 0.200 ND 2.07 U 100-42-5 Styrene 0.363 0.200 1.55 0.852 79-34-5 1,1,2,2-Tetrachloroethane ND 0.200 ND 1.37 U 95-47-6 o-Xylene 1.71 0.200 7.43 0.869 622-96-8 4-Ethyltoluene 0.419 0.200 2.06 0.983 108-67-8 1,3,5-Trimethylbenzene 0.548 0.200 2.69 0.983 95-63-6 1,2,4-Trimethylbenzene 2.04 0.200 ND 1.04 U 541-73-1 1,3-Dichlorobenzene ND 0.200 ND 1.20 U 541-73-1 1,2-Dichlorobenzene ND 0.200 ND 1.20 U 550-1 1,2-Di	CAS NO.	Parameter		Results	RL	MDL	Results	RL	MDL	Qualifier	
75-25-2 Bromotorm ND 0.200 - ND 2.07 - U 100-42-5 Styrene 0.363 0.200 - 1.55 0.852 - 79-34-5 1,1,2,2-Tetrachloroethane ND 0.200 - ND 1.37 - U 95-47-6 o-Xylene 1.71 0.200 - 7.43 0.869 - 622-96-8 4-Ethyltoluene 0.419 0.200 - 2.06 0.983 - - 108-67-8 1,3,5-Trimethylbenzene 0.548 0.200 - 10.0 0.983 - - 95-63-6 1,2,4-Trimethylbenzene 2.04 0.200 - ND 1.04 - U 100-44-7 Benzyl chloride ND 0.200 - ND 1.20 - U 106-46-7 1,4-Dichlorobenzene ND 0.200 - ND 1.20 - U 95-50-1 1,2-Dichlorobenzene ND 0.200 - ND 1.20 - U <td< th=""><th>179601-23-1</th><th>p/m-Xylene</th><th></th><th>4.40</th><th>0.400</th><th></th><th>19.1</th><th>1.74</th><th>-</th><th></th><th></th></td<>	179601-23-1	p/m-Xylene		4.40	0.400		19.1	1.74	-		
100-42-5 Styrene 0.363 0.200 - 1.55 0.852 79-34-5 1,1,2,2-Tetrachloroethane ND 0.200 - ND 1.37 - U 95-47-6 o-Xylene 1.71 0.200 - 7.43 0.869 - - 622-96-8 4-Ethyltoluene 0.419 0.200 - 2.06 0.983 -	75-25-2	Bromoform		ND	0.200		ND	2.07	-	U	
79-34-5 1,1,2,2-Tetrachloroethane ND 0.200 - ND 1.37 - U 95-47-6 o-Xylene 1.71 0.200 - 7.43 0.869 -	100-42-5	Styrene		0.363	0.200		1.55	0.852			
95-47-6 o-Xylene 1.71 0.200 - 7.43 0.869 - 622-96-8 4-Ethyltoluene 0.419 0.200 - 2.06 0.983 - 108-67-8 1,3,5-Trimethylberzene 0.548 0.200 - 2.69 0.983 - 95-63-6 1,2,4-Trimethylberzene 2.04 0.200 - 10.0 0.983 - 100-44-7 Benzyl chloride ND 0.200 - ND 1.04 - U 541-73-1 1,3-Dichlorobenzene ND 0.200 - ND 1.20 - U 106-46-7 1,4-Dichlorobenzene ND 0.200 - ND 1.20 - U 95-50-1 1,2-Dichlorobenzene ND 0.200 - ND 1.20 - U 120-82-1 1,2,4-Trichlorobenzene ND 0.200 - ND 1.20 - U 120-82-3 Hexachlorobutadiene ND 0.200 - ND 1.48 - U J <td>79-34-5</td> <td>1,1,2,2-Tetra</td> <td>chloroethane</td> <td>ND</td> <td>0.200</td> <td></td> <td>ND</td> <td>1.37</td> <td></td> <td>υ</td> <td></td>	79-34-5	1,1,2,2-Tetra	chloroethane	ND	0.200		ND	1.37		υ	
622-96-8 4-Ethyltoluene 0.419 0.200 2.06 0.983 108-67-8 1,3,5-Trimethylbenzene 0.548 0.200 2.69 0.983 95-63-6 1,2,4-Trimethylbenzene 2.04 0.200 10.0 0.983 100-44-7 Benzyl chloride ND 0.200 ND 1.04 U 541-73-1 1,3-Dichlorobenzene ND 0.200 ND 1.20 U 106-46-7 1,4-Dichlorobenzene ND 0.200 ND 1.20 U 95-50-1 1,2-Dichlorobenzene ND 0.200 ND 1.20 U 120-82-1 1,2,4-Trichlorobenzene ND 0.200 ND 1.48 U 120-82-1 1,2,4-Trichlorobenzene ND 0.200 ND 1.48 U 87-68-3 Hexachlorobutadiene ND 0.200 ND 2.13 - U	95-47-6	o-Xylene		1.71	0.200		7.43	0.869			
108-67-8 1,3,5-Trimethylbenzene 0.548 0.200 2.69 0.983 95-63-6 1,2,4-Trimethylbenzene 2.04 0.200 10.0 0.983 100-44-7 Benzyl chloride ND 0.200 ND 1.04 U 541-73-1 1,3-Dichlorobenzene ND 0.200 ND 1.20 U 106-46-7 1,4-Dichlorobenzene ND 0.200 ND 1.20 U 95-50-1 1,2-Dichlorobenzene ND 0.200 ND 1.20 U 120-82-1 1,2,4-Trichlorobenzene ND 0.200 ND 1.20 U 120-82-1 1,2,4-Trichlorobenzene ND 0.200 ND 1.48 U U 120-82-3 Hexachlorobutadiene ND 0.200 ND 2.13 U	622-96-8	4-Ethyltoluen	9	0.419	0.200		2,06	0.983	# *		
95-63-6 1,2,4-Trimethylbenzene 2.04 0.200 10.0 0.983 100-44-7 Benzyl chloride ND 0.200 ND 1.04 U 541-73-1 1,3-Dichlorobenzene ND 0.200 ND 1.20 U 106-46-7 1,4-Dichlorobenzene ND 0.200 ND 1.20 U 95-50-1 1,2-Dichlorobenzene ND 0.200 ND 1.20 U 120-82-1 1,2-A-Trichlorobenzene ND 0.200 ND 1.20 U 120-83-3 Hexachlorobutadiene ND 0.200 ND 1.20 U	108-67-8	1,3,5-Trimeth	ylbenzene	0.548	0.200	-	2.69	0.983	11		
100-44-7 Benzyl chloride ND 0.200 ND 1.04 U 541-73-1 1,3-Dichlorobenzene ND 0.200 ND 1.20 U 106-46-7 1,4-Dichlorobenzene ND 0.200 ND 1.20 U 95-50-1 1,2-Dichlorobenzene ND 0.200 ND 1.20 U 120-82-1 1,2,4-Trichlorobenzene ND 0.200 ND 1.48 U 87-68-3 Hexachlorobutadiene ND 0.200 ND 2.13 U	95-63-6	1,2,4-Trimeth	ylbenzene	2.04	0.200		10.0	0.983	<u></u> :		
541-73-1 1,3-Dichlorobenzene ND 0.200 ND 1.20 U 106-46-7 1,4-Dichlorobenzene ND 0.200 ND 1.20 U 95-50-1 1,2-Dichlorobenzene ND 0.200 ND 1.20 U 120-82-1 1,2,4-Trichlorobenzene ND 0.200 ND 1.48 U 87-68-3 Hexachlorobutadiene ND 0.200 ND 2.13 U	100-44-7	Benzyl chlorid	le	ND	0.200	<u>110</u>	ND	1.04	-	U	
106-46-7 1,4-Dichlorobenzene ND 0.200 ND 1.20 U 95-50-1 1,2-Dichlorobenzene ND 0.200 ND 1.20 U 120-82-1 1,2,4-Trichlorobenzene ND 0.200 ND 1.48 U 87-68-3 Hexachlorobutadiene ND 0.200 ND 2.13 U	541-73-1	1,3-Dichlorob	enzene	ND	0.200		ND	1.20		U	
95-50-1 1,2-Dichlorobenzene ND 0.200 ND 1.20 U 120-82-1 1,2,4-Trichlorobenzene ND 0.200 ND 1.48 U U 87-68-3 Hexachlorobutadiene ND 0.200 ND 2.13 U	106-46-7	1,4-Dichlorob	enzene	ND	0.200		ND	1.20	***	U	
120-82-1 1,2,4-Trichlorobenzene ND 0.200 - ND 1.48 - J J J 87-68-3 Hexachlorobutadiene ND 0.200 - ND 2.13 - U	95-50 - 1	1,2-Dichlorob	enzene	ND	0.200		ND	1.20		U	
87-68-3 Hexachlorobutadiene ND 0.200 - ND 2.13 - U	120-82-1	1,2,4-Trichlore	obenzene	ND	0.200)	ND	1.48	-	JU- ()	T
	87-68-3	Hexachlorobu	tadiene	ND	0.200	-	ND	2.13	-	U	u



Client Projec Lab ID Client Sampl Sampl Analyti Lab Fil Sampl	Project Name : AMERICAN DRI Lab ID : L1934510-03 Client ID : SV-3 Sample Location : 1345 PENINSUL Sample Matrix : SOIL_VAPOR Analytical Method : 48,TO-15 Lab File ID : R167925 Sample Amount : 250 ml		Philai Services, Inc. IVE-INN CLEANERS LA BLVD. HEWLETT, NY			mber Number ollected eceived nalyzed Factor tent ID	: L1934510 : 11391 : 07/31/19 14:30 : 08/02/19 : 08/08/19 23:09 : 1 : TS : AIRPIANO1 : RTX-1		
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifler	
75-71-8	Dichlorodifluoromethane	ND	0.200		ND	0.989	-	U	
/4-8/-3	Chloromethane	0.493	0.200		1.02	0.413			
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethan	ND	0.200	*	ND	1.40	<u></u>	U	
75-01-4	Vinyl chloride	0.627	0.200		1.60	0.511			
106-99-0	1,3-Butadlene	2.21	0.200	507.5	4.89	0.442			
74-83-9	Bromomethane	ND	0,200	. :	ND	0.777	5000)	U	
75-00-3	Chloroethane	ND	0.200	-	ND	0.528		U	
64-17-5	Ethyl Alcohol	6.34	5.00	-	11.9	9.42	-		
593-60-2	Vinyl bromide	ND	0.200		ND	0.874	-	U	
67-64-1	Acetone	27.5	1.00		65.3	2.38	 .		
75-69-4	Trichlorofluoromethane	1.29	0.200)	7.25	1.12			
67-63-0	iso-Propyl Alcohol	ND	0.500		ND	1.23	<u></u> :	+UJ	
75-35-4	1,1-Dichloroethene	ND	0.200	-	ND	0.793	-	U	
75-65-0	tert-Butyl Alcohol	8.07	0.500	-	24.5	1.52			
75-09-2	Methylene chloride	ND	0.500		ND	1.74		U .	
107-05-1	3-Chloropropene	ND	0.200	÷*	ND	0.626		U	
75-15-0	Carbon disulfide	2.45	0.200	-	7.63	0.623			
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200		ND	1.53		U	
156-60-5	trans-1,2-Dichloroethene	0.227	0.200	-	0.900	0.793			
75-34-3	1,1-Dichloroethane	ND	0.200		ND	0.809		U	
1634-04-4	Methyl tert butyl ether	ND	0.200	5 	ND	0.721		U	
78-93-3	2-Butanone	5.14	0.500	-	15.2	1.47	-		
156-59-2	cis-1,2-Dichloroethene	2.89	0.200	2	11.5	0,793	-		
141-78-6	Ethyl Acetate	ND	0.500	-	ND	1.80		U	
67-66-3	Chloroform	2.48	0.200		12.1	0.977			
109-99-9	Tetrahydrofuran	0.675	0.500	-	1.99	1.47			

112

Client Project Name Lab ID Client ID Sample Locatio Sample Matrix Analytical Methe Lab File ID Sample Amount	Project Name : AMERICAN DI Lab ID : L1934510-03 Client ID : SV-3 Sample Location : 1345 PENINSI Sample Matrix : SOIL_VAPOR Analytical Method : 48,TO-15 Lab File ID : R167925 Sample Amount : 250 ml CAS NO. Parameter		Pental Services, Inc. RIVE-INN CLEANERS			umber t Number collected leceived nalyzed n Factor t nent ID lumn	: L1934510 : 11391 : 07/31/19 14:30 : 08/02/19 : 08/08/19 23:09 : 1 : TS : AIRPIANO1 : RTX-1		
CAS NO. Paramet	er	Results	RL	MDL	Results	RL	MDL	Qualifier	
107-06-2 1,2-Dichl	oroethane	ND	0.200		ND	0.809	(11 11)	U	
110-54-3 n-Hexand)	2.04	0.200	-	7.19	0.705			
71-55-6 1,1,1-Tric	hloroethane	ND	0.200	-	ND	1.09	, Th	U	
71-43-2 Benzene		2.50	0.200		7.99	0.639			
56-23-5 Carbon to	etrachloride	ND	0.200		ND	1.26	3 11 3	U	
110-82-7 Cyclohex	ane	0.585	0.200	3 117 7	2.01	0.688			
78-87-5 1,2-Dich	propropane	ND	0,200	944)	ND	0.924	(111)	U	
1330-20-7 Xylene (1	otal)	6.30	0.200	100	27.4	0.869			
75-27-4 Bromodic	hloromethane	ND	0.200	÷.	ND	1.34		U	
123-91-1 1,4-Dioxa	ne	ND	0.200		ND	0.721	-	U	
79-01-6 Trichloro	ethene	11.1	0.200	-	59.7	1.07	-		
540-84-1 2,2,4-Trin	nethylpentane	0.769	0.200	-	3.59	0.934			
142-82-5 Heptane		1.33	0.200		5.45	0.820			
10061-01-5 cis-1,3-Di	chloropropene	ND	0.200		ND	0.908		U	
108-10-1 4-Methyl-	2-pentanone	1.70	0.500		6.97	2,05			
10061-02-6 trans-1,3-	Dichloropropene	ND	0.200		ND	0.908	**	U	
79-00-5 1,1,2-Tric	hloroethane	ND	0.200		ND	1.09	112 112	U	
108-88-3 Toluene		7.40	0.200		27.9	0.754	**		
540-59-0 1,2-Dichle	proethene (total)	3.12	0.200	-	12.4	0.793			
591-78-6 2-Hexand	ne	ND	0.200	-2	ND	0.820	++:	U	
124-48-1 Dibromoc	hloromethane	ND	0.200		ND	1.70		U	
542-75-6 1,3-Dichk	propropene, Total	ND	0.200	-	ND	0.908		U	
106-93-4 1,2-Dibro	noethane	ND	0.200	N=0	ND	1.54		U	
127-18-4 Tetrachlo	roethene	48.0	0.200		325	1.36	-		
108-90-7 Chlorober	izene	ND	0.200	-	ND	0.921	-	U	
100-41-4 Ethylbenz	ene	1.32	0.200	8 2	5.73	0.869	-		



Client : WRS Env Project Name : AMERICA Lab ID : L1934510 Client ID : SV-3 Sample Location : 1345 PEN Sample Matrix : SOIL_VA Analytical Method : 48,TO-15 Lab File ID : R167925 Sample Amount : 250 ml		: WRS Environm : AMERICAN DR : L1934510-03 : SV-3 : 1345 PENINSU : SOIL_VAPOR : 48,TO-15 : R167925 : 250 ml	ental Servi NVE-INN C	ces, Inc. LEANER HEWLET	S T, NY	Lab Number Project Number Date Collected Date Received Date Analyzed Dilution Factor Analyst Instrument ID GC Column ug/m3		: L19 : 113 : 07/: : 08/(: 08/(: 1 : TS : AIR : RT)	34510 91 31/19 14:30)2/19)8/19 23:09 PIANO1 K-1	
CAS NO.	Parameter		Results	RL	MDL	Results	RL	MDL	Qualifier	
179601-23-1	p/m-Xylene		4.56	0.400		19.8	1 74			
75-25-2	Bromoform	ŝ.	ND	0.200	(त त)	ND	2.07		U	
100-42-5	Styrene		0.758	0.200		3.23	0.852	342		
79-34-5	1,1,2,2-Tetra	chloroethane	ND	0.200	1117	ND	1.37		U	
95-47-6	o-Xylene		1.74	0,200	•	7.56	0.869			
622-96-8	4-Ethyltoluen		0.397	0.200		1.95	0.983			
108-67-8	1,3,5-Trimeth	ylbenzene	0.480	0.200)	2.36	0.983			
95-63-6	1,2,4-Trimeth	ylbenzene	1.76	0.200	(aug.)	8.65	0.983			
100-44-7	Benzyl chlori	de	ND	0.200		ND	1.04	-	U	
541-73-1	1,3-Dichlorob	enzene	ND	0.200	E	ND	1.20		U	
106-46-7	1,4-Dichlorob	enzene	ND	0.200		ND	1.20	HE:	U	
95-50-1	1,2-Dichlorob	enzene	ND	0.200	-	ND	1.20		U	
120-82-1	1,2,4-Trichlor	obenzene	ND	0.200	 :	ND	1.48	<u>117</u>)	# UJ	
87-68-3	Hexachlorobu	utadiene	ND	0.200	220	ND	2.13		U	

Client Projec Lab ID Client Sampl Sampl Analyt Lab Fi Sampl	: WRS Environme t Name : AMERICAN DRI : L1934510-04 ID : SV-4 e Location : 1345 PENINSUI e Matrix : SOIL_VAPOR ical Method : 48,TO-15 le ID : R167926 e Amount : 250 ml	ental Servi IVE-INN C LA BLVD.	ces, Inc. LEANER HEWLET	S T, NY	Lab Nu Project Date C Date R Date A Dilution Analys Instrum GC Co	Imber Number collected eceived nalyzed n Factor t nent ID lumn	: L19 : 113 : 07/ : 08/ : 08/ : 1 : TS : AIF : RT	934510 991 31/19 14:30 02/19 08/19 23:41 RPIANO1 X-1	
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	
75-71-8	Dichlorodifluoromethane	0.204	0.200	*	1.01	0.989			
74-87-3	Chloromethane	0.393	0.200	18w	0.812	0.413			
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethan	ND	0.200		ND	1.40		U	
75-01-4	Vinyl chloride	ND	0.200	1990	ND	0.511	-	U	
106-99-0	1,3-Butadiene	2.09	0.200		4.62	0.442	-		
74-83-9	Bromomethane	ND	0.200		ND	0.777		U	
75-00-3	Chloroethane	ND	0.200	<u>.</u>	ND	0.528	-	U	
64-17-5	Ethyl Alcohol	7.55	5.00	<u>.</u>	14.2	9.42	-		
593-60-2	Vinyl bromlde	ND	0.200		ND	0.874	-	U	
67-64-1	Acetone	42.2	1.00	**	100	2.38			
75-69-4	Trichlorofluoromethane	0.628	0.200	÷	3.53	1,12	127		
67-63-0	iso-Propyl Alcohol	0.995	0.500	<u></u>	2.45	1,23	-	J	
75-35-4	1,1-Dichloroethene	ND	0.200	*	ND	0.793		U	
75-65-0	tert-Butyl Alcohol	8.42	0.500	55 6	25.5	1.52	 .		
75-09-2	Methylene chloride	ND	0.500		ND	1.74	 :)	U	
107-05-1	3-Chloropropene	ND	0.200	÷	ND	0.626	-	U	
75-15-0	Carbon disulfide	2.45	0.200	·	7.63	0.623	₩.		
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	E.	ND	1.53	-	U	
156-60-5	trans-1,2-Dichloroethene	ND	0.200	=8	ND	0.793	-	U	
75-34-3	1,1-Dichloroethane	ND	0.200	-	ND	0.809	-	U	
1634-04-4	Methyl tert butyl ether	ND	0.200	-	ND	0.721	2 	U	
78-93-3	2-Butanone	4.28	0.500	-	12.6	1.47			
156-59-2	cis-1,2-Dichloroethene	ND	0.200	()	ND	0.793		U	
141-78-6	Ethyl Acetate	ND	0.500	8.0	ND	1.80	3 11	U	
67-66-3	Chloroform	ND	0.200		ND	0.977	-	U	
109-99-9	Tetrahydrofuran	0.573	0.500	-	1.69	1.47			

POLJ19

Client Projec Lab ID Client Sampl Sampl Analyti Lab Fil Sampl	Project Name : AMERICAN DF Lab ID : L1934510-04 Client ID : SV-4 Sample Location : 1345 PENINSU Sample Matrix : SOIL_VAPOR Analytical Method : 48,TO-15 Lab File ID : R167926 Sample Amount : 250 ml		ental Services, Inc. NVE-INN CLEANERS ILA BLVD. HEWLETT, NY			umber t Number Collected Received Analyzed n Factor st nent ID olumn	: L19 : 113 : 07/ : 08/ : 08/ : 1 : TS : AIR : RT	934510 991 31/19 14:30 02/19 08/19 23:41 1PIANO1 X-1
CAS NO.	Parameter	Results	ppbV RL	MDL	Results	ug/m3 RL	MDL	Qualifier
107-06-2	1,2-Dichloroethane	ND	0.200	.86	ND	0.809		U
110-54-3	n-Hexane	1.60	0.200		5.64	0.705	-	
71-55-6	1,1,1-Trichloroethane	ND	0.200	3423	ND	1.09	1200	U
71-43-2	Benzene	2.93	0.200	*	9.36	0.639	-	
56-23-5	Carbon tetrachloride	ND	0.200	-	ND	1.26	1	U
110-82-7	Cyclohexane	0.763	0.200		2.63	0.688	-	
78-87-5	1,2-Dichloropropane	ND	0.200	-	ND	0.924		U
75-27-4	Bromodichioromethane	ND	0.200		ND	1.34	-	U
1330-20-7	Xylene (Total)	4.20	0.200		18.2	0.869		
123-91-1	1,4-Dioxane	ND	0.200		ND	0.721		U
79-01-6	Trichloroethene	ND	0.200	-	ND	1.07		U
540-84-1	2,2,4-Trimethylpentane	0.697	0.200	-	3.26	0.934)	
142-82-5	Heptane	0.831	0,200	-	3.41	0.820	24 <u>0</u> 0	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200		ND	0.908	-	U
108-10-1	4-Methyl-2-pentanone	0.972	0.500		3.98	2.05	577 5	
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	11 2	ND	0.908	-	U
79-00-5	1,1,2-Trichloroethane	ND	0.200		ND	1.09		U
108-88-3	Toluene	5.46	0.200	<u>86</u> 9	20.6	0.754	1220	
540-59-0	1,2-Dichloroethene (total)	ND	0.200	B)	ND	0.793		U
591-78-6	2-Hexanone	ND	0.200		ND	0.820	-	U
542-75-6	1,3-Dichloropropene, Total	ND	0.200		ND	0.908	-	U
124-48-1	Dibromochloromethane	ND	0.200		ND	1.70	-	U
106-93-4	1,2-Dibromoethane	ND	0.200	(1)	ND	1.54	-	U
127-18-4	Tetrachloroethene	8.94	0.200	-	60.6	1.36	-	
108-90-7	Chlorobenzene	ND	0.200	()	ND	0.921	-	U
100-41-4	Ethylbenzene	0.931	0.200	6 5.	4.04	0.869	() ();	



Client: WRS EnvironmProject Name: AMERICAN DFLab ID: L1934510-04Client ID: SV-4Sample Location: 1345 PENINSLSample Matrix: SOIL_VAPORAnalytical Method: 48,TO-15Lab File ID: R167926Sample Amount: 250 ml		Imental Servi DRIVE-INN C SULA BLVD. 7 R	ces, Inc. LEANER HEWLET	S T, NY	Lab Number Project Number Date Collected Date Received Date Analyzed Dilution Factor Analyst Instrument ID GC Column ug/m3		: L19 : 113 : 07/: : 08/0 : 08/0 : 1 : TS : AIR : RT2	94510 91 31/19 14:30 02/19 08/19 23:41 PIANO1 K-1	
CAS NO.	Parameter	Posulte	ppbV	MDL	Baculta	ug/m3	MDL	Qualifier	
	- drumeter	nesults		MDL	nesuits		MDL	Quaimer	
179601-23-1	p/m-Xylene	3.00	0.400		13.0	1.74	-		
75-25-2	Bromoform	ND	0.200	ЭЙC.	ND	2.07		U	
100-42-5	Styrene	0.426	0.200	-	1.81	0.852	HE)		
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	-	ND	1.37	-	U	
95-47-6	o-Xylene	1.20	0.200	44 5	5.21	0.869	112) 112)		
622-96-8	4-Ethyltoluene	0.265	0.200	<u></u>	1.30	0.983	-		
108-67-8	1,3,5-Trimethylbenzene	0.293	0.200	#	1.44	0.983			
95-63-6	1,2,4-Trimethylbenzene	1.16	0.200		5.70	0.983	HE:		
100-44-7	Benzyl chloride	ND	0.200	-	ND	1.04	-	U	
541-73-1	1,3-Dichlorobenzene	ND	0.200	140 C	ND	1.20		U	
106-46-7	1,4-Dichlorobenzene	ND	0.200		ND	1.20		U	
95-50-1	1,2-Dichlorobenzene	ND	0.200		ND	1.20		U	_
120-82-1	1,2,4-Trichlorobenzene	ND	0.200		ND	1.48	- 	+UJ	
87-68-3	Hexachlorobuladiene	ND	0.200	i 🖛/	ND	2.13		U	

1012119



Client Projec Lab ID Client Sampl Sampl Analyti Lab Fil Sampl	: WRS Environme t Name : AMERICAN DRI : L1934510-05 ID : SV-5 e Location : 1345 PENINSUI e Matrix : SOIL_VAPOR ical Method : 48,TO-15 ie ID : R167927 e Amount : 250 ml	ental Servi IVE-INN C LA BLVD.	ces, Inc. LEANER HEWLET	S T, NY	Lab No Projec Date C Date R Date A Dilution Analys Instrum GC Co	umber t Number collected deceived nalyzed n Factor t nent ID Jumn	: L19 : 113 : 07/ : 08/ : 08/ : 1 : TS : AIF : RT	934510 391 31/19 14:30 02/19 09/19 00:14 RPIANO1 X-1
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.239	0.200		1.18	0.989		
74-87-3	Chloromethane	0.389	0.200		0.803	0.413		
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethan	ND	0.200		ND	1.40		U
75-01-4	Vinyl chloride	ND	0.200		ND	0.511		U
106-99-0	1,3-Butadiene	0.573	0.200		1.27	0.442		
74-83-9	Bromomethane	ND	0.200		ND	0.777	÷.	U
75-00-3	Chloroethane	ND	0,200	77. :	ND	0.528		U
64-17-5	Ethyl Alcohol	5.84	5.00		11.0	9.42		
593-60-2	Vinyl bromide	ND	0.200	900 7	ND	0.874	÷	U
67-64-1	Acetone	14.6	1.00	-	34.7	2.38	÷	
75-69-4	Trichlorofluoromethane	0.704	0.200		3.96	1.12	-	
67-63-0	iso-Propyl Alcohol	ND	0.500		ND	1.23	-	+ UJ
75-35-4	1,1-Dichloroethene	ND	0.200	-	ND	0.793	**	U
75-65-0	tert-Butyl Alcohol	6.31	0.500	÷	19.1	1.52	<u></u>	
75-09-2	Methylene chloride	0.532	0.500		1.85	1.74	<u>н</u>	
107-05-1	3-Chloropropene	ND	0.200		ND	0.626	11	U
75-15-0	Carbon disulfide	2.24	0.200	53 3	6.98	0.623		
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	***	ND	1.53		U
156-60-5	trans-1,2-Dichloroethene	ND	0.200		ND	0.793	<u>812</u> 3)	U
75-34-3	1,1-Dichloroethane	ND	0.200	<i></i>	ND	0.809	-	U
1634-04-4	Methyl tert butyl ether	ND	0.200	-	ND	0.721	-	U
78-93-3	2-Butanone	1.55	0.500		4.57	1.47	-	
156-59-2	cls-1,2-Dichloroethene	ND	0.200	*** /5	ND	0.793	-	U
141-78-6	Ethyl Acetate	ND	0.500		ND	1.80		U
67-66-3	Chloroform	ND	0.200	-	ND	0.977	-	U
109-99-9	Tetrahydrofuran	0.528	0.500	-	1.56	1.47	-	

for 101 119

Client Projec Lab II Client Samp Samp Analyt Lab Fi Samp	Project Name : AMERICAN DR Lab ID : L1934510-05 Client ID : SV-5 Sample Location : 1345 PENINSUI Sample Matrix : SOIL_VAPOR Analytical Method : 48,TO-15 Lab File ID : R167927 Sample Amount : 250 ml		ental Services, Inc. IVE-INN CLEANERS LA BLVD. HEWLETT, NY			Lab Number Project Number Date Collected Date Received Date Analyzed Dilution Factor Analyst Instrument ID GC Column ug/m3		934510 391 31/19 14:30 02/19 09/19 00:14 RPIANO1 X-1
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
107-06-2	1,2-Dichloroethane	ND	0.200	-	ND	0.809	-	U
110-54-3	n-Hexane	0.862	0.200		3.04	0.705	-	
71-55-6	1,1,1-Trichloroethane	ND	0.200	-	ND	1.09		U
71-43-2	Benzene	1.36	0.200	(11)	4.34	0.639		
56-23-5	Carbon tetrachloride	ND	0.200	-	ND	1.26		U
110-82-7	Cyclohexane	1.13	0.200		3.89	0.688		
78-87-5	1,2-Dichloropropane	ND	0.200		ND	0.924		U
1330-20-7	Xylene (Total)	3.02	0.200		13.1	0.869		1
75-27-4	Bromodichloromethane	ND	0.200	nt .	ND	1.34	֥.	U
123-91-1	1,4-Dioxane	ND	0.200	-	ND	0.721	-	U
79-01-6	Trichloroethene	ND	0.200		ND	1.07		U
540-84-1	2,2,4-Trimethylpentane	0.560	0.200		2.62	0.934		
142-82-5	Heptane	0.541	0,200	mi.	2.22	0.820		
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	He C	ND	0.908		U
108-10-1	4-Methyl-2-pentanone	1.21	0.500	÷	4.96	2.05	111 0	
10061-02-6	trans-1,3-Dichloropropene	ND	0.200		ND	0.908	-	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	₩.	ND	1.09	÷.	U
108-88-3	Toluene	4.14	0.200	T 2	15.6	0.754	 2	
540-59-0	1,2-Dichloroethene (total)	ND	0.200	-0	ND	0.793		U
591-78-6	2-Hexanone	ND	0.200	200	ND	0.820		U
542-75-6	1,3-Dichloropropene, Total	ND	0.200		ND	0.908	с <u>щ</u> е	U
124-48-1	Dibromochloromethane	ND	0.200	(=)	ND	1.70	(=)	U
106-93-4	1,2-Dibromoethane	ND	0.200		ND	1.54	-	U
127-18-4	Tetrachloroethene	4.28	0.200		29.0	1.36		
108-90-7	Chlorobenzene	ND	0.200	:044	ND	0.921	3 10 3	U
100-41-4	Ethylbenzene	0.671	0.200	- 	2.91	0.869	80	



Client: WRS EnvirProject Name: AMERICAILab ID: L1934510-Client ID: SV-5Sample Location: 1345 PENISample Matrix: SOIL_VAPAnalytical Method: 48,TO-15Lab File ID: R167927Sample Amount: 250 ml		nmental Servic DRIVE-INN C 5 SULA BLVD. I R	ces, Inc. LEANER HEWLET	S T, NY	Lab Number Project Number Date Collected Date Received Date Analyzed Dilution Factor Analyst Instrument ID GC Column		: L19 : 113 : 07/: : 08/(: 08/(: 08/(: 1 : TS : AIR : RT)	94510 91 31/19 14:30 02/19 09/19 00:14 PIANO1 K-1	
CAS NO.	Parameter	Results	BL	MDL	Results	ug/m3 BL	MDL	Qualifler	
179601-23-1	p/m-Xylene	2.18	0.400		9.47	1.74	-		
75-25-2	Bromoform	ND	0.200	(75)	ND	2.07		U	
100-42-5	Styrene	0.270	0.200	(111)	1.15	0.852			
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	3 44 1)	ND	1.37	144	U	
95-47-6	o-Xylene	0.846	0.200	201	3.67	0,869	4		
622-96-8	4-Ethyltoluene	ND	0.200	*	ND	0.983	-	U	
108-67-8	1,3,5-Trimethylbenzene	0.275	0.200		1.35	0.983			
95-63-6	1,2,4-Trimethylbenzene	0.997	0.200		4.90	0.983			
100-44-7	Benzyl chloride	ND	0.200		ND	1.04		U	
541-73-1	1,3-Dichlorobenzene	ND	0.200		ND	1.20	122	U	
106-46-7	1,4-Dichlorobenzene	ND	0.200	18	ND	1,20		U	
95-50-1	1,2-Dichlorobenzene	ND	0.200		ND	1.20		U	
120-82-1	1,2,4-Trichlorobenzene	ND	0.200		ND	1.48		JUT	
87-68-3	Hexachlorobutadiene	ND	0.200	9927) 1927)	ND	2.13	-	U	

1012/19



Client Projec Lab ID Client Sample Sample Analyti Lab Fil Sample	: WRS Environme : AMERICAN DRI : L1934510-06 D : OA-1 = Location : 1345 PENINSUL = Matrix : AIR cal Method : 48,TO-15 = ID : R167917 = Amount : 250 ml	ental Servi VE-INN C _A BLVD.	ces, Inc. LEANER HEWLET	S T, NY	Lab Nu Project Date C Date R Date A Dilution Analyst Instrum GC Co	Imber Number ollected eceived nalyzed Factor t hent ID lumn	: L19 : 113 : 07/ : 08/ : 08/ : 08/ : 1 : TS : AIF : RT	934510 991 31/19 13:30 02/19 08/19 18:49 IPIANO1 X-1
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL.	Qualifier
75-71-8	Dichlorodifluoromethane	0.366	0.200	-	1.81	0.989	5 44 (
74-87-3	Chloromethane	0.551	0.200		1.14	0.413		
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethan	ND	0.200	210	ND	1.40	ंगर	U
75-01-4	Vinyl chloride	ND	0.200		ND	0.511	3.0 111	U
106-99-0	1,3-Butadiene	ND	0.200		ND	0.442	-	U
74-83-9	Bromomethane	ND	0.200		ND	0.777	5410 	U
75-00-3	Chloroethane	ND	0.200		ND	0.528		U
64-17-5	Ethyl Alcohol	ND	5.00		ND	9.42	-	U
593-60-2	Vinyl bromide	ND	0.200	: Int	ND	0.874	-	U
67-64-1	Acetone	5.76	1.00	(1944)	13.7	2.38	-	
75-69-4	Trichlorofluoromethane	0,294	0.200	224	1.65	1.12	-	
67-63-0	iso-Propyl Alcohol	ND	0.500	-	ND	1.23	-	-UJ
75-35-4	1,1-Dichloroethene	ND	0.200	255	ND	0.793	्रमत	U
75-65-0	tert-Butyl Alcohol	ND	0.500		ND	1.52	3 30	U
75-09-2	Methylene chloride	ND	0.500		ND	1.74		U
107-05-1	3-Chloropropene	ND	0.200	-	ND	0.626	1	U
75-15-0	Carbon disulfide	ND	0.200		ND	0.623	-	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200		ND	1.53	200	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	-	ND	0.793		U
75-34-3	1,1-Dichloroethane	ND	0.200) 24	ND	0.809	-	U
1634-04-4	Methyl tert butyl ether	ND	0,200	5 <u>.91</u> 8	ND	0.721	14 2	U
78-93-3	2-Butanone	ND	0.500	-	ND	1.47		U
156-59-2	cis-1,2-Dichloroethene	ND	0.200		ND	0.793		U
141-78-6	Ethyl Acetate	ND	0.500		ND	1.80		U
67-66-3	Chloroform	ND	0.200		ND	0.977	-	U
109-99-9	Tetrahydrofuran	ND	0.500	222	ND	1.47	-	U

80519 ALT



Client Projec Lab II Client Samp Samp Analy Lab F Samp	Project Name : AMERICAN DF Lab ID : L1934510-06 Client ID : OA-1 Sample Location : 1345 PENINSU Sample Matrix : AIR Analytical Method : 48,TO-15 Lab File ID : R167917 Sample Amount : 250 ml	mental Servi DRIVE-INN C GULA BLVD.	RIVE-INN CLEANERS ULA BLVD. HEWLETT, NY ppbV Results RL MDL			umber t Number Collected Received Analyzed n Factor st ment ID plumn	: L19 : 113 : 07/ : 08/ : 08/ : 08/ : 1 : TS : AIR : RT	934510 991 31/19 13:30 02/19 08/19 18:49 PIANO1 X-1	
CAS NO.	Parameter	Results	RL	MDL	Results	ug/m3 RL	MDL	Qualifier	
107-06-2	1,2-Dichloroethane	ND	0.200		ND	0.809	9 44 2	U	
110-54-3	n-Hexane	0.692	0.200	810	2.44	0.705	-		
71-55-6	1,1,1-Trichloroethane	ND	0.200		ND	1.09	-	U	
71-43-2	Benzene	0.279	0.200	200	* 0.891	0.639	8.46		
56-23-5	Carbon tetrachloride	ND	0.200	3 11	ND	1.26		U	
110-82-7	Cyclohexane	ND	0.200	9 44	ND	0.688	· ··· ·	U	
78-87-5	1,2-Dichloropropane	ND	0.200	3	ND	0.924	6710	U	
75-27-4	Bromodichloromethane	ND	0.200	÷.	ND	1.34	-	U	
1330-20-7	Xylene (Total)	ND	0.200		ND	0.869	377	U	4
123-91-1	1,4-Dioxane	ND	0.200	-	ND	0.721	0000	U	
79-01-6	Trichloroethene	ND	0.200		ND	1.07	0	U	
540-84-1	2,2,4-Trimethylpentane	ND	0.200	3	ND	0.934	844	U	
142-82-5	Heptane	ND	0.200	-	ND	0.820	8	U	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	3	ND	0.908	3	U	
108-10-1	4-Methyl-2-pentanone	ND	0.500		ND	2.05		U	
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	-	ND	0.908		U	
79-00-5	1,1,2-Trichloroethane	ND	0.200	-	ND	1.09	<u></u>	U	
108-88-3	Toluene	0.731	0.200	(),	2.75	0.754		- A - A - A - A - A - A - A - A - A - A	
540-59-0	1,2-Dichloroethene (total)	ND	0.200		ND	0.793		U	
591-78-6	2-Hexanone	ND	0.200	S HR	ND	0.820	-	U	
542-75-6	1,3-Dichloropropene, Total	ND	0.200		ND	0.908	-	U	
124-48-1	Dibromochloromethane	ND	0.200	-	ND	1.70		U	
106-93-4	1,2-Dibromoethane	ND	0.200		ND	1.54		U	
127-18-4	Tetrachloroethene	15.9	0.200	1.511	108	1.36	6.00		
108-90-7	Chlorobenzene	ND	0.200		ND	0.921	:	U	
100-41-4	Ethylbenzene	ND	0.200	-	ND	0.869		U	



Client Project Lab ID Client I Sample Sample Analyti Lab Fil Sample	: W Name : AN : L1 D : O/ e Location : 13 e Matrix : All cal Method : 48 e ID : R1 e Amount : 25	RS Environmenta MERICAN DRIVE 934510-06 A-1 45 PENINSULA I R 5,TO-15 167917 0 ml	al Services -INN CLE BLVD. HE	s, Inc. ANERS WLETT,	NY	Lab Nun Project N Date Co Date Re Date Ana Dilution I Analyst Instrume GC Colu	hber Jumber Ilected ceived alyzed Factor Int ID mn	: L1934 : 11391 : 07/31/ : 08/02/ : 08/08/ : 1 : TS : AIRPI/ : RTX-1	510 19 13:30 19 19 18:49 ANO1	
CAS NO.	Parameter	Re	sults	RL N	IDL R	lesuits	RL	MDL	Qualifier	
								E.		
179601-23-1	p/m-Xylene		ND	0.400	E)	ND	1.74		U	
75-25-2	Bromoform		ND	0.200		ND	2.07	: .:	U	
100-42-5	Styrene		ND	0.200		ND	0.852	3 — 0	U	5
79-34-5	1,1,2,2-Tetrachloroe	ethane	ND	0.200	Л—1. Г	ND	1.37	3 4 40	U	
95-47-6	o-Xylene	1	ND	0.200). <u>Mit.</u>	ND	0.869	-	U	
622-96-8	4-Ethyltoluene		ND	0.200	-	ND	0.983	-	U	
108-67-8	1,3,5-Trimethylbenz	iene l	ND	0.200		ND	0.983		U	
95-63-6	1,2,4-Trimethylbenz	ene l	ND	0.200	-	ND	0.983	-	U	
100-44-7	Benzyl chloride		ND	0.200		ND	1.04	-	U	
541-73-1	1,3-Dichlorobenzen	e I	ND	0.200	- 10	ND	1.20		U	
106-46-7	1,4-Dichlorobenzen	e l	ND	0.200		ND	1.20	-	υ	
95-50-1	1,2-Dichlorobenzen	e I	ND	0.200	8 77	ND	1.20	31 311	U	
120-82-1	1,2,4-Trichlorobenzo	ene l	ND	0.200		ND	1.48	:: ***	J+ ()	T
87-68-3	Hexachlorobutadien	ie i	ND	0.200	994	ND	2.13	899	U	<u>.</u>



Appendix-E

CAMP Data

Instrume	nt: MiniRAE 2	2000 (PGM76	00)	Serial Number: 009059		
Data Poir Last Cali	00000001 nts: 360 bration Time:	July 30, 2019	Site ID: 00000202 Gas Name: Isobutylene 14:35	Sample Period: 60 sec		
Measurement Type: High Alarm Levels: Low Alarm Levels:			Min (ppm) 100.0 50.0	Avg (ppm) 100.0 50.0	Max (ppm) 100.0 50.0	
====== Line #	Date	Time	 Min (ppm)	Avg (ppm)	Max (ppm)	
	=======================================	======================================		================= 0 0	=============== 0 1	
	07/31/19	7.40		0.0	0.1	
2	3 07/31/19	7:50		0.0	0.0	
4	4 07/31/19	7:51		0.0	0.1	
Ę	5 07/31/19	7:52		0.0	0.1	
6	6 07/31/19	7:53		0.0	0.1	
7	7 07/31/19	7:54		0.0	0.1	
8	3 07/31/19	7:55		0.0	0.0	
(9 07/31/19	7:56		0.0	0.1	
10	07/31/19	7:57		0.0	0.1	
11	07/31/19	7.50		0.0	0.1	
12	2 07/31/19 3 07/31/19	07.59		0.0	0.1	
14	4 07/31/19	08:01		0.0	0.0	
15	5 07/31/19	08:02		0.0	0.1	
16	6 07/31/19	08:03		0.0	0.1	
17	7 07/31/19	08:04		0.0	0.1	
18	3 07/31/19	08:05		0.0	0.1	
19	9 07/31/19	08:06		0.0	0.1	
20	07/31/19	08:07		0.0	0.1	
2'	07/31/19	08:08		0.0	0.1	
22	2 07/31/19	08:09		0.0	0.1	
20	07/31/19	08.10		0.0	0.1	
2-	5 07/31/19	08.17		0.0	0.1	
26	5 07/31/19	08:12		0.0	0.1	
2	7 07/31/19	08:14		0.0	0.1	
28	3 07/31/19	08:15		0.0	0.1	
29	9 07/31/19	08:16		0.0	0.1	
30	07/31/19	08:17		0.0	0.1	
31	1 07/31/19	08:18		0.0	0.1	
32	2 07/31/19	08:19		0.0	0.1	
33	3 07/31/19	08:20		0.0	0.1	
34 21	+ 07/31/19	08:21		0.0	0.1	
30	S 07/31/19	08.22		0.0	0.1	
37	7 07/31/19	08:24		0.0	0.1	
38	3 07/31/19	08:25		0.0	0.1	
39	07/31/19	08:26		0.0	0.1	
4(07/31/19	08:27		0.0	0.1	
41	1 07/31/19	08:28		0.0	0.1	
42	2 07/31/19	08:29		0.0	0.1	
43	3 07/31/19	08:30		0.0	0.1	
44	4 07/31/19	08:31		0.0	0.1	
4:	07/31/19	08:32		0.0	0.1	
40	7 07/31/19	08.33		0.0	0.1	
	A 07/31/19	08:35		0.0	0.1	
49	07/31/19	08:36		0.0	0.1	
50	07/31/19	08:37		0.0	0.1	
5	1 07/31/19	08:38		0.0	0.1	
52	2 07/31/19	08:39		0.0	0.1	
53	3 07/31/19	08:40		0.0	0.1	
54	4 07/31/19	08:41		0.0	0.1	
55	5 07/31/19	08:42		0.0	0.0	
56	o 07/31/19	08:43		0.0	0.1	
57	v = 07/31/19	08:44		0.0	0.1	
58	o 07/31/19	08:45		0.0	0.1	

		~~ ~~			. .
59	07/31/19	08:46		0.0	0.1
60	07/31/19	08.42		0.0	0.1
00	07/04/40	00.17		0.0	0.1
61	07/31/19	08:48		0.0	0.1
62	07/31/19	08:49		0.0	0.1
62	07/31/10	08.20		0.0	0.1
05	07/31/13	00.00		0.0	0.1
64	07/31/19	08:51		0.0	0.1
65	07/31/19	08:52		0.0	0.1
00	07/04/40	00.50		0.0	0.1
00	07/31/19	00.55		0.0	0.1
67	07/31/19	08:54		0.0	0.1
68	07/31/19	08.22		0.0	0.1
00	07/04/40	00.00		0.0	0.1
69	07/31/19	08:56		0.0	0.1
70	07/31/19	08:57		0.0	0.1
71	07/31/10	08.28		0.0	0.1
70	07/01/10	00.00		0.0	0.1
72	07/31/19	08:59		0.0	0.1
73	07/31/19	09:00		0.0	0.0
7/	07/31/10	00.01		0.0	0.0
7-	07/01/10	00.01		0.0	0.0
75	07/31/19	09:02		0.0	0.0
76	07/31/19	09:03		0.0	0.1
77	07/21/10	00.04		0.0	0.1
	07/31/19	09.04		0.0	0.1
78	07/31/19	09:05		0.0	0.1
79	07/31/19	09.06		0.0	0.0
00	07/21/10	00.07		0.0	0.0
00	07/31/19	09.07		0.0	0.0
81	07/31/19	09:08		0.0	0.0
82	07/31/19	09.09		0.0	0.0
02	07/04/40	00.00		0.0	0.0
83	07/31/19	09:10		0.0	0.0
84	07/31/19	09:11		0.0	0.0
85	07/31/10	00.12		0.0	0.0
00	07/01/10	00.12		0.0	0.0
86	07/31/19	09:13		0.0	0.0
87	07/31/19	09:14		0.0	0.0
00	07/21/10	00:15		0.0	0.0
00	07/31/19	09.15		0.0	0.0
89	07/31/19	09:16		0.0	0.0
90	07/31/19	09.17		0.0	0.0
04	07/04/40	00.10		0.0	0.0
91	07/31/19	09:18		0.0	0.0
92	07/31/19	09:19		0.0	0.0
93	07/31/19	09.20		0.0	0.0
00	07/04/40	00.20		0.0	0.0
94	07/31/19	09:21		0.0	0.0
95	07/31/19	09:22		0.0	0.0
96	07/31/10	00.23		0.0	0.0
00	07/04/40	00.20		0.0	0.0
97	07/31/19	09:24		0.0	0.0
98	07/31/19	09:25		0.0	0.0
aa	07/31/10	09.26		0.0	0.0
400	07/04/40	00.20		0.0	0.0
100	07/31/19	09:27		0.0	0.0
101	07/31/19	09:28		0.0	0.0
102	07/31/10	00.20		0.0	0.0
102	07/51/19	09.29		0.0	0.0
103	07/31/19	09:30		0.0	0.0
104	07/31/19	09:31		0.0	0.1
105	07/31/10	00.32		0.0	0.0
100	07/04/40	00.02		0.0	0.0
106	07/31/19	09:33		0.0	0.0
107	07/31/19	09:34		0.0	0.0
108	07/31/10	00.35		0.0	0.0
100	07/51/19	09.00		0.0	0.0
109	07/31/19	09:36		0.0	0.0
110	07/31/19	09:37		0.0	0.0
111	07/21/10	00.38		0.0	0.0
111	07/31/19	09.30		0.0	0.0
112	07/31/19	09:39		0.0	0.0
113	07/31/19	09:40		0.0	0.0
11/	07/21/10	00.11		0.0	0.0
114	07/31/19	09.41		0.0	0.0
115	07/31/19	09:42		0.0	0.0
116	07/31/19	09:43		0.0	0.0
117	07/21/10	00.14		0.0	0.0
11/	01/31/19	03.44		0.0	0.0
118	07/31/19	09:45		0.0	0.1
119	07/31/19	09:46		0.0	0.1
120	07/21/10	00.47		0.0	0.1
120	07/31/19	09.47		0.0	0.0
121	07/31/19	09:48		0.0	0.0
122	07/31/19	09:49		0.0	0.0
100	07/04/40	00.50		0.0	0.0
123	01/31/19	09.00		0.0	0.0
124	07/31/19	09:51		0.0	0.0
125	07/31/19	09:52		0.0	0.0
126	07/04/40	00.52		0.0	0.0
120	07/31/19	09.53		0.0	0.0
127	07/31/19	09:54		0.0	0.0
			_	-	

128	07/31/19	09:55		0.0	0.0
129	07/31/19	09:56		0.0	0.0
130	07/31/19	09:57		0.0	0.0
131	07/31/19	09:58		0.0	0.0
132	07/31/19	09:59		0.0	0.0
133	07/31/10	10.00		0.0	0.0
13/	07/31/19	10.00		0.0	0.0
135	07/31/10	10.01		0.0	0.0
135	07/31/19	10.02		0.0	0.1
127	07/31/19	10.03		0.0	0.0
107	07/31/19	10.04		0.0	0.0
130	07/31/19	10.05		0.0	0.0
139	07/31/19	10.00		0.0	0.0
140	07/31/19	10:07		0.0	0.0
141	07/31/19	10:08		0.0	0.0
142	07/31/19	10:09		0.0	0.0
143	07/31/19	10:10		0.0	0.0
144	07/31/19	10:11		0.0	0.0
145	07/31/19	10:12		0.0	0.0
146	07/31/19	10:13		0.0	0.0
147	07/31/19	10:14		0.0	0.1
148	07/31/19	10:15		0.0	0.1
149	07/31/19	10:16		0.0	0.1
150	07/31/19	10:17		0.0	0.0
151	07/31/19	10:18		0.0	0.0
152	07/31/19	10:19		0.0	0.0
153	07/31/19	10:20		0.0	0.0
154	07/31/19	10:21		0.0	0.0
155	07/31/19	10:22		0.0	0.0
156	07/31/19	10.23		0.0	0.0
157	07/31/19	10.24		0.0	0.0
158	07/31/19	10:25		0.0	0.0
159	07/31/19	10.26		0.0	0.0
160	07/31/10	10.20		0.0	0.0
161	07/31/19	10.27		0.0	0.0
160	07/31/19	10.20		0.0	0.0
102	07/31/19	10.29		0.0	0.0
103	07/31/19	10:30		0.0	0.0
164	07/31/19	10:31		0.0	0.0
165	07/31/19	10:32		0.0	0.0
100	07/31/19	10:33		0.0	0.0
167	07/31/19	10:34		0.0	0.0
168	07/31/19	10:35		0.0	0.0
169	07/31/19	10:36		0.0	0.0
170	07/31/19	10:37		0.0	0.0
171	07/31/19	10:38		0.0	0.0
172	07/31/19	10:39		0.0	0.0
173	07/31/19	10:40		0.0	0.0
174	07/31/19	10:41		0.0	0.0
175	07/31/19	10:42		0.0	0.0
176	07/31/19	10:43		0.0	0.0
177	07/31/19	10:44		0.0	0.0
178	07/31/19	10:45		0.0	0.0
179	07/31/19	10:46		0.0	0.0
180	07/31/19	10:47		0.0	0.0
181	07/31/19	10:48		0.0	0.0
182	07/31/19	10:49		0.0	0.0
183	07/31/19	10:50		0.0	0.0
184	07/31/19	10:51		0.0	0.0
185	07/31/19	10:52		0.0	0.1
186	07/31/19	10:53		0.0	0.0
187	07/31/19	10:54		0.0	0.0
188	07/31/19	10.55		0.0	0.0
189	07/31/19	10:56		0.0	0.0
190	07/31/10	10.50	-	0.0	0.0
101	07/31/10	10.58		0.0	0.0
102	07/31/10	10.50		0.0	0.0
102	07/21/10	11.00		0.0	0.0
10/	07/31/19	11.00		0.0	0.0
134	07/21/19	11.01		0.0	0.0
190	07/24/40	11.02		0.0	0.0
190	01/31/19	11.03		0.0	0.0

197	07/31/19	11:04		0.0	0.0
198	07/31/19	11.05		0.0	0.0
100	07/31/10	11:06		0.0	0.0
200	07/31/10	11.00		0.0	0.0
200	07/21/10	11.07		0.0	0.0
201	07/31/19	11.00		0.0	0.0
202	07/31/19	11:09		0.0	0.0
203	07/31/19	11:10		0.0	0.0
204	07/31/19	11:11		0.0	0.0
205	07/31/19	11:12		0.0	0.0
206	07/31/19	11:13		0.0	0.0
207	07/31/19	11:14		0.0	0.0
208	07/31/19	11:15		0.0	0.0
209	07/31/19	11.16		0.0	0.0
210	07/31/10	11.10		0.0	0.0
210	07/21/10	11.17		0.0	0.0
211	07/31/19	11.10		0.0	0.0
212	07/31/19	11.19		0.0	0.0
213	07/31/19	11:20		0.0	0.0
214	07/31/19	11:21		0.0	0.0
215	07/31/19	11:22		0.0	0.0
216	07/31/19	11:23		0.0	0.0
217	07/31/19	11:24		0.0	0.0
218	07/31/19	11:25		0.0	0.0
219	07/31/19	11:26		0.0	0.1
220	07/31/19	11.27		0.0	0.1
221	07/31/10	11.27		0.0	0.0
221	07/21/10	11.20		0.0	0.0
222	07/31/19	11.29		0.0	0.0
223	07/31/19	11:30		0.0	0.0
224	07/31/19	11:31		0.0	0.0
225	07/31/19	11:32		0.0	0.1
226	07/31/19	11:33		0.0	0.1
227	07/31/19	11:34		0.0	0.1
228	07/31/19	11:35		0.0	0.0
229	07/31/19	11:36		0.0	0.0
230	07/31/19	11:37		0.0	0.0
231	07/31/19	11:38		0.0	0.0
232	07/31/10	11.00		0.0	0.0
202	07/31/13	11.00		0.0	0.0
200	07/31/19	11.40		0.0	0.0
234	07/31/19	11:41		0.0	0.0
235	07/31/19	11:42		0.0	0.0
236	07/31/19	11:43		0.0	0.0
237	07/31/19	11:44		0.0	0.0
238	07/31/19	11:45		0.0	0.0
239	07/31/19	11:46		0.0	0.0
240	07/31/19	11:47		0.0	0.0
241	07/31/19	11:48		0.0	0.0
242	07/31/19	11:49		0.0	0.0
243	07/31/19	11.50		0.0	0.0
210	07/31/10	11.00		0.0	0.0
244	07/31/10	11.57		0.0	0.0
240	07/21/10	11.52		0.0	0.0
240	07/31/19	11.55		0.0	0.0
247	07/31/19	11:54		0.0	0.0
248	07/31/19	11:55		0.0	0.0
249	07/31/19	11:56		0.0	0.0
250	07/31/19	11:57		0.0	0.0
251	07/31/19	11:58		0.0	0.0
252	07/31/19	11:59		0.0	0.1
253	07/31/19	12:00		0.0	0.1
254	07/31/19	12:01		0.0	0.1
255	07/31/19	12:02		0.0	0.1
256	07/31/19	12.03		0.0	0.1
257	07/31/10	12.00	.	0.0	0.0
251	07/21/10	12.07		0.0	0.0
200	07/04/40	12.00		0.0	0.0
209	07/31/19	12.00		0.0	0.0
300	07/31/19	12:07		0.0	0.1
301	07/31/19	12:08		0.0	0.1
302	07/31/19	12:09		0.0	0.0
303	07/31/19	12:10		0.0	0.0
304	07/31/19	12:11		0.0	0.0
305	07/31/19	12:12		0.0	0.0
			_	-	
306	07/31/19	12.13	 0.0	0.1	
-----	----------	-------	---------	-----	
307	07/31/19	12.10	 0.0	0.1	
308	07/31/10	12.11	 0.0	0.1	
300	07/31/10	12.10	 0.0	0.0	
310	07/31/10	12.10	 0.0	0.0	
211	07/31/13	12.17	 0.0	0.0	
212	07/31/19	12.10	 0.0	0.0	
312	07/31/19	12.19	 0.0	0.0	
212	07/31/19	12.20	 0.0	0.0	
214	07/31/19	12.21	 0.0	0.0	
210	07/31/19	12.22	 0.0	0.0	
217	07/31/19	12.20	 0.0	0.0	
210	07/31/19	12.24	 0.0	0.0	
310	07/31/19	12.20	 0.0	0.0	
319	07/31/19	12:20	 0.0	0.0	
320	07/31/19	12:27	 0.0	0.0	
321	07/31/19	12:28	 0.0	0.0	
322	07/31/19	12:29	 0.0	0.0	
323	07/31/19	12:30	 0.0	0.0	
324	07/31/19	12:31	 0.0	0.0	
325	07/31/19	12:32	 0.0	0.0	
326	07/31/19	12:33	 0.0	0.1	
327	07/31/19	12:34	 0.0	0.1	
328	07/31/19	12:35	 0.0	0.0	
329	07/31/19	12:36	 0.0	0.0	
330	07/31/19	12:37	 0.0	0.0	
331	07/31/19	12:38	 0.0	0.0	
332	07/31/19	12:39	 0.0	0.1	
333	07/31/19	12:40	 0.0	0.1	
334	07/31/19	12:41	 0.0	0.1	
335	07/31/19	12:42	 0.0	0.0	
336	07/31/19	12:43	 0.0	0.0	
337	07/31/19	12:44	 0.0	0.0	
338	07/31/19	12:45	 0.0	0.0	
339	07/31/19	12:46	 0.0	0.0	
340	07/31/19	12:47	 0.0	0.0	
341	07/31/19	12:48	 0.0	0.0	
342	07/31/19	12:49	 0.0	0.0	
343	07/31/19	12:50	 0.0	0.0	
344	07/31/19	12:51	 0.0	0.0	
345	07/31/19	12:52	 0.0	0.0	
346	07/31/19	12:53	 0.0	0.0	
347	07/31/19	12:54	 0.0	0.0	
348	07/31/19	12:55	 0.0	0.0	
349	07/31/19	12:56	 0.0	0.0	
350	07/31/19	12:57	 0.0	0.0	
351	07/31/19	12:58	 0.0	0.0	
352	07/31/19	12:59	 0.0	0.0	
353	07/31/19	1:00	 0.0	0.0	
354	07/31/19	1:01	 0.0	0.0	
355	07/31/19	1:02	 0.0	0.0	
356	07/31/19	1:04	 0.0	0.0	
357	07/31/19	1:05	 0.0	0.0	
358	07/31/19	1:06	 0.0	0.0	
359	07/31/19	1:07	 0.0	0.0	
360	07/31/19	1:08	 0.0	0.0	

User ID: (Data Poir Last Calit	00000001 hts: 188 pration Time:	: July 30,	Site ID: 00000202 Gas Name: Isobutylene 2019 14:35	Samı	ole Period: 60 sec	
Measurer	nent Type:		Min (ppm)	Avg (ppm)	Max (ppm)	
High Alar Low Alarr	m Levels: n Levels:		100.0 50.0	100.0 50.0	100.0 50.0	
====== Line #	Date	Time	Min (ppm)	Avg (ppm)	======================================	======
====== 1	======================================	====== 09:28				======
2	08/15/19	09:29		0.0	0.0	
3	08/15/19	09:30		0.0	0.0	
4	08/15/19	09:31		0.0	0.1	
5	08/15/19	09:32		0.0	0.0	
6	08/15/19	09:33		0.0	0.0	
7	08/15/19	09:34		0.0	0.0	
8	08/15/19	09:35		0.0	0.0	
ç	08/15/19	09:36		0.0	0.2	
10	08/15/19	09:37		0.0	0.0	
11	08/15/19	09:38		0.0	0.0	
12	08/15/19	09:39		0.0	0.0	
13	08/15/19	09:40		0.0	0.0	
14	08/15/19	09:41		0.0	0.0	
15	08/15/19	09:42		0.0	0.0	
10	08/15/19	09:43		0.0	0.0	
10	08/15/19	09.44		0.0	0.0	
10	08/15/19	09.45		0.0	0.1	
20	08/15/19	09.40		0.0	0.1	
20	08/15/19	09.47		0.0	0.0	
21	08/15/19	09.40		0.0	0.0	
23	08/15/19	09:50		0.0	0.0	
24	08/15/19	09:51		0.0	0.0	
25	08/15/19	09:52		0.0	0.0	
26	08/15/19	09:53		0.0	0.0	
27	08/15/19	09:54		0.0	0.0	
28	08/15/19	09:55		0.0	0.0	
29	08/15/19	09:56		0.0	0.0	
30	08/15/19	09:57		0.0	0.0	
31	08/15/19	09:58		0.0	0.0	
32	08/15/19	09:59		0.0	0.0	
33	08/15/19	10:00		0.0	0.0	
34	08/15/19	10:01		0.0	0.0	
35	08/15/19	10:02		0.0	0.1	
36	08/15/19	10:03		0.0	0.0	
37	08/15/19	10:04		0.0	0.0	
38	08/15/19	10:05		0.0	0.0	
39	08/15/19	10:06		0.0	0.0	
40	08/15/19	10:07		0.0	0.0	
41	08/15/19	10.00		0.0	0.0	
42	08/15/19	10.03		0.0	0.0	
40	08/15/19	10.10		0.0	0.0	
45	08/15/19	10.11		0.0	0.0	
46	08/15/19	10.12		0.0	0.0	
47	08/15/19	10.10		0.0	0.1	
48	08/15/19	10:15		0.0	0.1	
49	08/15/19	10:16		0.0	0.1	
50	08/15/19	10:17		0.0	0.0	
51	08/15/19	10:18		0.0	0.0	
52	08/15/19	10:19		0.0	0.0	
53	08/15/19	10:20		0.0	0.0	
54	08/15/19	10:21		0.0	0.0	
55	08/15/19	10:22		0.0	0.0	
			Page 2	1		

Serial Number: 009059

Instrument: MiniRAE 2000 (PGM7600)

EC	00/15/10	10.00	0.0	0.0
50	00/15/19	10.23	 0.0	0.0
57	08/15/19	10:24	 0.0	0.0
58	08/15/19	10.25	 0.0	0.0
50	00/15/10	10.26	0.0	0.0
59	00/15/19	10.20	 0.0	0.0
60	08/15/19	10:27	 0.0	0.0
61	08/15/19	10:28	 0.0	0.0
62	08/15/10	10.20	0.0	0.0
02	00/15/19	10.29	 0.0	0.0
63	08/15/19	10:30	 0.0	0.0
64	08/15/19	10:31	 0.0	0.0
65	08/15/10	10.32	 0.0	0.0
00	00/15/15	10.52	 0.0	0.0
66	08/15/19	10:33	 0.0	0.0
67	08/15/19	10:34	 0.0	0.0
68	08/15/19	10.35	 0.0	0.0
00	00/15/15	10.00	0.0	0.0
69	08/15/19	10:36	 0.0	0.0
70	08/15/19	10:37	 0.0	0.2
71	08/15/19	10.38	 0.0	0.0
70	00/10/10	10.00	0.0	0.0
12	08/15/19	10:39	 0.0	0.0
73	08/15/19	10:40	 0.0	0.0
74	08/15/19	10.41	 0.0	0.0
75	00/16/10	10.11	0.0	0.0
15	00/15/19	10.42	 0.0	0.0
76	08/15/19	10:43	 0.0	0.0
77	08/15/19	10:44	 0.0	0.0
70	00/15/10	10:45	0.0	0.0
10	00/15/19	10.45	 0.0	0.0
79	08/15/19	10:46	 0.0	0.0
80	08/15/19	10:47	 0.0	0.0
01	09/15/10	10.10	0.0	0.0
01	00/15/19	10.40	 0.0	0.0
82	08/15/19	10:49	 0.0	0.0
83	08/15/19	10:50	 0.0	0.0
Q /	08/15/10	10.51	0.0	0.0
04	00/15/15	10.51	 0.0	0.0
85	08/15/19	10:52	 0.0	0.1
86	08/15/19	10:53	 0.0	0.0
87	08/15/10	10.54	0.0	0.0
07	00/15/15	10.54	 0.0	0.0
88	08/15/19	10:55	 0.0	0.0
89	08/15/19	10:56	 0.0	0.0
90	08/15/19	10.57	 0.0	0.0
00	00/10/10	10.07	0.0	0.0
91	08/15/19	10:58	 0.0	0.0
92	08/15/19	10:59	 0.0	0.0
93	08/15/19	11.00	 0.0	0.0
04	00/15/10	11.00	0.0	0.0
94	00/15/19	11.01	 0.0	0.0
95	08/15/19	11:02	 0.0	0.0
96	08/15/19	11:03	 0.0	0.0
07	08/15/10	11.04	0.0	0.0
91	06/15/19	11.04	 0.0	0.0
98	08/15/19	11:05	 0.0	0.0
99	08/15/19	11:06	 0.0	0.0
100	00/15/10	11.07	0.0	0.0
100	00/13/19	11.07	 0.0	0.0
101	08/15/19	11:08	 0.0	0.0
102	08/15/19	11:09	 0.0	0.0
103	08/15/10	11.10	0.0	0.1
100	00/15/19	11.10	 0.0	0.1
104	08/15/19	11:11	 0.0	0.0
105	08/15/19	11:12	 0.0	0.0
106	08/15/19	11.13	 0.0	0.0
407	00/10/10	44.44	0.0	0.0
107	08/15/19	11:14	 0.0	0.0
108	08/15/19	11:15	 0.0	0.0
109	08/15/19	11.16	 0.0	0.0
110	00/15/10	11.10	0.0	0.0
110	00/15/19	11.17	 0.0	0.0
111	08/15/19	11:18	 0.0	0.0
112	08/15/19	11:19	 0.0	0.0
112	08/15/10	11.20	0.0	0.0
113	00/15/19	11.20	 0.0	0.0
114	08/15/19	11:21	 0.0	0.0
115	08/15/19	11:22	 0.0	0.0
116	08/15/10	11.02	0.0	0.0
110	00/10/19	11.20	 0.0	0.0
117	08/15/19	11:24	 0.0	0.0
118	08/15/19	11:25	 0.0	0.0
110	08/15/10	11.26	 0.0	0.1
100	00/15/13	11.20	 0.0	0.1
120	08/15/19	11:27	 0.0	0.1
121	08/15/19	11:28	 0.0	0.0

122	08/15/19	11:29	 0.0	0.0
123	08/15/19	11:30	 0.0	0.0
124	08/15/19	11:31	 0.0	0.2
125	08/15/19	11:32	 0.0	0.1
126	08/15/19	11:33	 0.0	0.1
127	08/15/19	11:34	 0.0	0.1
128	08/15/19	11:35	 0.0	0.0
129	08/15/19	11:36	 0.0	0.0
130	08/15/19	11:37	 0.0	0.0
131	08/15/19	11:38	 0.0	0.0
132	08/15/19	11:39	 0.0	0.0
133	08/15/19	11:40	 0.0	0.0
134	08/15/19	11:41	 0.0	0.1
135	08/15/19	11:42	 0.0	0.0
136	08/15/19	11:43	 0.0	0.2
137	08/15/19	11:44	 0.0	0.0
138	08/15/19	11:45	 0.0	0.1
139	08/15/19	11:46	 0.0	0.1
140	08/15/19	11:47	 0.0	0.0
141	08/15/19	11:48	 0.0	0.0
142	08/15/19	11:49	 0.0	0.0
143	08/15/19	11:50	 0.0	0.0
144	08/15/19	11:51	 0.0	0.0
145	08/15/19	11:52	 0.0	0.0
146	08/15/19	11:53	 0.0	0.0
147	08/15/19	11:54	 0.0	0.0
148	08/15/19	11:55	 0.0	0.0
149	08/15/19	11:56	 0.0	0.0
150	08/15/19	11:57	 0.0	0.0
151	08/15/19	11:58	 0.0	0.0
152	08/15/19	11:59	 0.0	0.1
153	08/15/19	12:00	 0.0	0.1
154	08/15/19	12:01	 0.0	0.1
155	08/15/19	12:02	 0.0	0.1
156	08/15/19	12:03	 0.0	0.0
157	08/15/19	12:04	 0.0	0.0
158	08/15/19	12:05	 0.0	0.0
159	08/15/19	12:06	 0.0	0.0
160	08/15/19	12:07	 0.0	0.1
161	08/15/19	12:08	 0.0	0.1
162	08/15/19	12:09	 0.0	0.0
163	08/15/19	12:10	 0.0	0.0
164	08/15/19	12:11	 0.0	0.0
165	08/15/19	12:12	 0.0	0.0
166	08/15/19	12:13	 0.0	0.1
167	08/15/19	12:14	 0.0	0.1
168	08/15/19	12:15	 0.0	0.1
169	08/15/19	12:16	 0.0	0.0
170	08/15/19	12:17	 0.0	0.0
171	08/15/19	12:18	 0.0	0.0
172	08/15/19	12:19	 0.0	0.0
173	08/15/19	12:20	 0.0	0.0
174	08/15/19	12:21	 0.0	0.0
175	08/15/19	12:22	 0.0	0.0
176	08/15/19	12:23	 0.0	0.0
177	08/15/19	12:24	 0.0	0.0
178	08/15/19	12:25	 0.0	0.0
179	08/15/19	12:26	 0.0	0.0
180	08/15/19	12:27	 0.0	0.0
181	08/15/19	12:28	 0.0	0.0
182	08/15/19	12:29	 0.0	0.1
183	08/15/19	12:30	 0.0	0.0
184	08/15/19	12:31	 0.0	0.0
185	08/15/19	12:32	 0.0	0.0
186	08/15/19	12:33	 0.0	0.1
187	08/15/19	12:34	 0.0	0.1

pDR-1000 S/N: 00000 Tag Number: 16 Number of logged points: 344 Start time and date: 07:29:23 31-Jul Elapsed time: 05:44:00 Logging period (sec): 60 Calibration Factor (%): 100 Max Display Concentration: 0.740 mg/m³ Time at maximum: 09:34:33 Jul 31 Max STEL Concentration: 0.008 mg/m³ Time at max STEL: 09:45:23 Jul 31 Overall Avg Conc: 0.000 mg/m³ Logged Data: , Time Point, Date Avg. (mq/m^3) 1, 31 Jul, 07:30:23, 0.008 2, 31 Jul, 07:31:23, 0.000 3, 31 Jul, 07:32:23, 0.003 4, 31 Jul, 07:33:23, 0.000 5, 31 Jul, 07:34:23, 0.000 6, 31 Jul, 07:35:23, 0.003 7, 31 Jul, 07:36:23, 0.000 8, 31 Jul, 07:37:23, 0.001 9, 31 Jul, 07:38:23, 0.002 10, 31 Jul, 07:39:23, 0.005 11, 31 Jul, 07:40:23, 0.001 12, 31 Jul, 07:41:23, 0.006 13, 31 Jul, 07:42:23, 0.010 14, 31 Jul, 07:43:23, 0.002 15, 31 Jul, 07:44:23, 0.007 16, 31 Jul, 07:45:23, 0.001 17, 31 Jul, 07:46:23, 0.001 18, 31 Jul, 07:47:23, 0,014 19, 31 Jul, 07:48:23, 0.000 20, 31 Jul, 07:49:23, 0.000 21, 31 Jul, 07:50:23, 0.000 22, 31 Jul, 07:51:23, 0.000 23, 31 Jul, 07:52:23, 0.007 24, 31 Jul, 07:53:23, 0.001 25, 31 Jul, 07:54:23, 0.005 26, 31 Jul, 07:55:23, 0.000 27, 31 Jul, 07:56:23, 0.000 28, 31 Jul, 07:57:23, 0.000 29, 31 Jul, 07:58:23, 0.009 30, 31 Jul, 07:59:23, 0.006 31, 31 Jul, 08:00:23, 0.017 32, 31 Jul, 08:01:23, 0.001 33, 31 Jul, 08:02:23, 0.001 34, 31 Jul, 08:03:23, 0.001 35, 31 Jul, 08:04:23, 0.000 36, 31 Jul, 08:05:23, 0.000 37, 31 Jul, 08:06:23, 0.001 38, 31 Jul, 08:07:23, 0.004 39, 31 Jul, 08:08:23, 0.002 40, 31 Jul, 08:09:23, 0.000 41, 31 Jul, 08:10:23, 0.003 42, 31 Jul, 08:11:23, 0.002 43, 31 Jul, 08:12:23, 0.001 44, 31 Jul, 08:13:23, 0.001 45, 31 Jul, 08:14:23, 0.000 46, 31 Jul, 08:15:23, 0.000 47, 31 Jul, 08:16:23, 0.003 48, 31 Jul, 08:17:23, 0.000 49, 31 Jul, 08:18:23, 0.009 50, 31 Jul, 08:19:23, 0.003 51, 31 Jul, 08:20:23, 0.001 52, 31 Jul, 08:21:23, 0.007 53, 31 Jul, 08:22:23, 0.000 54, 31 Jul, 08:23:23, 0.004 55, 31 Jul, 08:24:23, 0.002 56, 31 Jul, 08:25:23, 0.002 57, 31 Jul, 08:26:23, 0,000

58,	31	. Jul,	08:27:23,	0.005
59,	31	Jul,	08:28:23,	
60,	31	Jul,	08:29:23,	0.000
61,	31	Jul,	08:30:23,	0.000
62,	31	Jul,	08:31:23,	$0.004 \\ 0.000$
63,	31	Jul,	08:32:23,	
64, 65,	31 31	Jul,	08:33:23, 08:34:23.	0.000
66, 67	31	Jul,	08:35:23,	0.000
68,	31	Jul,	08:37:23,	0.006
70,	31	Jul,	08:39:23,	0.000
72,	31	Jul,	08:40:23, 08:41:23,	$0.001 \\ 0.019$
73,	31	Ju⊥,	08:42:23,	0.004
74,	31	Jul,	08:43:23,	0.008
75,	31	Jul,	08:44:23,	0.000
76,	31	Jul,	08:45:23,	0.013
77,	31	Jul,	08:46:23,	0.001
78,	31	Jul,	08:47:23,	0.015
79,	31	Jul,	08:48:23,	0.003
80,	31	Jul,	08:49:23,	0.002
81,	31	Jul,	08:50:23,	0.001
82,	31	Jul,	08:51:23,	0.001
83,	31	Jul,	08:52:23,	0.000
84,	31	Jul,	08:53:23,	
85, 86,	31 31	Jul,	08:54:23, 08:55:23.	0.001
87, 88	31 31	Jul,	08:56:23,	0.003
89, 90.	31	Jul,	08:58:23,	0.003
91, 92	31	Jul,	09:00:23,	0.003
93, 94	31	Jul,	09:02:23,	0.002
95, 95,	31	Jul,	09:03:23,	0.000
90, 97,	31	Jul,	09:05:23,	0.001
98, 99,	31	Jul,	09:07:23,	0.001
100,	31 31	Jul, Jul,	09:09:23, 09:10:23,	0.000
102, 103,	31	Jul,	09:11:23,	0.000
	31	Jul,	09:12:23,	0.000
104,	31	Jul,	09:13:23,	0.000
105,	31	Jul,	09:14:23,	0.001
106,	31	Jul,	09:15:23,	0.001
107,	31	Jul,	09:16:23,	0.000
108,	31	Jul,	09:17:23,	0.000
109,	31	Jul,	09:18:23,	0.000
110,	31	Jul,	09:19:23,	0.001
111,	31	Jul,	09:20:23,	0.005
112,	31	Jul,	09:21:23,	0.004
113,	31	Jul,	09:22:23,	0.002
114,	31	Jul,	09:23:23,	0.000
115,	31	Jul,	09:24:23,	0.000
116,	31	Jul,	09:25:23,	0.000
117,	31	Jul,	09:26:23,	0.002
118,	31	Jul,	09:27:23,	0.000
119,	31	Jul,	09:28:23,	
120,	31	Jul,	09:29:23,	0.000
121,	31	Jul,	09:30:23,	
122,	31	Jul,	09:31:23,	0.004
123.	31	Jul,	09:32:23	
124,	31 31	Jul,	09:33:23,	0.001
126,	31	Jul,	09:35:23,	0.141
128,	31	Jul,	09:37:23,	0.001

.

,

,

,

,

1

129,	31	Jul,	09:38:23.	0.022		÷				
130.	31	Jul	09.39.23	0 014						
131	21	Tul	00.40.22	0.014						
100	21	July	09:40:23,	0.001						
13Z,	31	Jui,	09:41:23,	0.000						
133,	.31	Jul,	09:42:23,	0.000						
134,	31	Jul,	09:43:23,	0.014						
135,	31	Jul,	09:44:23.	0.005						
136.	31	Jul	09.45.23	0 000						
127	21	Tul	00.40.20	0.000						
137,	51 01	υu±,	09:46:23,	0.000						
T38,	31	Jui,	09:47:23,	0.000						
139,	31	Jul,	09:48:23,	0.005						
140,	31	Jul,	09:49:23.	0.000						
141	31	Tul.	09.50.23	0 000						
140	21	Tul	00.51.22	0.000						
144,	21	our,	09:51:25,	0.000						
143,	31	Jul,	09:52:23,	0.000						
144,	31	Jul,	09:53:23,	0.000						
145,	31	Jul,	09:54:23,	0,000						
146	31	T11]	09:55:23	0.003						
1/7	31	.Tul	00.56.23	0.001						
140	01 01	Jul,	09.00.20	0.001						
148,	31	JUL,	09:57:23,	0.004				,		
149,	31	Jul,	09:58:23,	0.000	,					4 Andrew A
150,	31	Jul,	09:59:23,	0.000						
151,	31	Jul,	10:00:23,	0.002					·	
152	31	Tul	10.01.23	0.001						
153	31	Tul	10.02.23	0 000						
1 = 4	21	υu±,	10.02.23,	0.000						
104,	31	Ju±,	10:03:23,	0.000						ļ
155,	31	Jul,	10:04:23,	0.000						
156,	31	Jul,	10:05:23,	0.000						
157,	31	Jul,	10:06:23,	0.000						
158	31	Tul	10.07.23	0 000						
150	21	Tul	10.00.20	0.000						
100	21	JUL,	10.00.23,	0.000						
160,	31	JUL,	10:09:23,	0.000						
161,	31	Jul,	10:10:23,	0.001						
162,	31	Jul,	10:11:23,	0.004						
163,	31	Jul,	10:12:23.	0.006						ļ
164.	31	. lut.	10.13.23	0 000			1 () () () () () () () () () (1
165	31	Tul	10.14.23	0.000						
100,	31 31	Jur,	10:14:23,	0.000						1
100,	31	JUL,	10:15:23,	0.001						
167,	31	Jul,	10:16:23,	0.000						
168,	31	Jul,	10:17:23,	0.000						
169.	31	Jul.	10:18:23.	0.000						
170	31	.T11]	10.19.23	0 000						
171	31	Tul	10.20.23	0.000						
170	01 01	Jul,	10:20:23,	0.000						
1/2,	31	Jur,	10:21:23,	0.000						
173,	31	Jul,	10:22:23,	0,000						1
174,	31	Jul,	10:23:23,	0.002	د			1		
175.	31	Jul.	10:24:23.	0.000						
176.	31	Jul	10:25:23.	0 000						
177	21	Tul	10.26.23	0.001						
$\frac{1}{170}$	21	<i>Jul,</i>	10:20:23,	0.001						
T/8,	31	Jul,	10:27:23,	0.000						
179,	31	Jul,	10:28:23,	0.001						
180,	31	Jul,	10:29:23,	0.001						
181,	31	Jul,	10:30:23,	0.000						
182	31	.Tul.	10.31.23	0 002						
102	21	Tu1	10.22.22	0.002						and the second se
103,	'⊃⊤ '	Jur,	10;52;23,	0.001						
184,	31	Jul,	10:33:23,	0.004						
185,	31	Jul,	10:34:23,	0.004						
186,	31	Jul,	10:35:23,	0.030						
187,	31	Jul,	10:36:23,	0.002						-
188.	31	ປນໄ	10:37:23	0.001						
180	21	.Tızl	10.38.00	0.000						
100	J I 31	υ α τ η	10,00,20,	0.000						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
TAO'	31	Jul,	10:39:23,	0.000						
191,	31	Jul,	10:40:23,	0.001						
192,	31	Jul,	10:41:23,	0.006						
193.	31	Jul.	10:42:23	0.001						
191	31	Tul	10.43.23	0 001						
105	21 21	τι-1	10.44.00	0 001						
100	от С1	uui,	10 45 20	0.001						Area faither
196,	31	Jul,	10:45:23,	0.000						
197,	31	Jul,	10:46:23,	0.000						
198,	31	Jul,	10:47:23,	0.000						
199.	31	Jul.	10:48:23	0.000				/		
. ,		,								
										3

200	31	.Tu 1	10-10-23	0 004							
201	21	Tu 1	10,10,20,	0.004							
2011	21	Jul,	10:50:25,	0.000						-	
202,	31	Jul,	10:51:23,	0.002							
203,	31	Jul,	10:52:23,	0.001							
204,	31	Jul,	10:53:23,	0.002							
205,	31	Jul,	10:54:23,	0.001							
206	31	Tul	10.55.23	0 001	,				,		
2007	21	Tul	10.55.257	0.001							
201,	21	JUL,	10:56:23,	0.000							
208,	31	Jul,	10:57:23,	0.000							1
209,	31	Jul,	10:58:23,	0.000							
210,	31	Jul,	10:59:23.	0.000							
211	31	Tu]	11.00.23	0 001							
212	21	Tul	11.01.20	0,001							ĺ
212,	JT 01	Jur,	11:01:23,	0.002							
213,	31	Ju⊥,	11:02:23,	0.000							A. C.
214,	31	Jul,	11:03:23,	0.001		•					
215,	-31	Jul,	11:04:23.	0.002							
216.	31	T11]	11.05.23	0 000							
217	21	711	11.06.23	0.000							
211, 010	.⊃⊥	Jul,	11:00:23,	0.000							:
Z18,	31	Jul,	11:07:23,	0.000							
219,	31	Jul,	11:08:23,	0.000							
220,	31	Jul,	11:09:23,	0.002							Í
221.	31		11:10:23.	0 000							
222	21	Jul	11.11.23	0.000							<i>2</i> 111111
<u>444</u>	21	July	11.10.00	0.001							
ZZ3,	31 51	Jui,	11:12:23,	0.002							
224,	31	Jul,	11:13:23,	0.000							
225,	31	Jul,	11:14:23,	0,000							
226,	31	Jul,	11:15:23.	0.002							
227	31	.Tu]	11.16.23	0,000							
227	21	Tu 1	11.17.00	0.000							:
220,	21	Jur,	11;17;23,	0.001							
229,	31	Jul,	11:18:23,	0.000							
230,	31	Jul,	11:19:23,	0.000							
231,	31	Jul,	11:20:23,	0.005					,		-
232.	31	Jul.	11:21:23	0.001							
222	21	Tul	11.00.03	0.000							
2001	01 01	Jul,	11.02.02	0.000							
234,	31	Jur,	11:23:23,	0.000						•	
235,	31	Ju⊥,	11:24:23,	0.000							
236,	31	Jul,	11:25:23,	0.000							
237,	31	Jul,	11:26:23,	0.000							
238.	31	ປນໄ.	11:27:23.	0.000							~~~~~
220	21	.Tu I	11.28.23	0.000							
200	01 01	Tul,	11.20.23,	0.000							
240,	.31 	JUL,	11:29:23,	0.001							
241,	31	Jul,	LL:30:23,	0.000							
242,	31	Jul,	11:31:23,	0.000							
243,	31	Jul,	11:32:23,	0,001							
244.	31	Jul	11:33:23.	0.000							
245	21	.Tul	11.34.22	0.000							
245,	91 31		11.04.20,	0.003							
240,	21	JUL,	11:30:23,	0.002							
24/,	31	Jui,	11:36:23,	0.000							
248,	31	Jul,	11:37:23,	0.001							
249,	31	Jul,	11:38:23,	0.001							
250	31	Jul	11:39:23.	0.001							
251	31	.Tul	11.40.23	0 000							
201 <i>1</i> 251	31 31	Tur T	11.41.00	0.000							
232,	31 I	Jui,	11:41:23,	0.000							
253,	31	Jui,	11:42:23,	0.000							
254,	31	Jul,	11:43:23,	0.000							
255,	31	Jul,	11:44:23,	0.002							
256.	31	Jul	11:45:23.	0.000							
257	31		11.16.23	0.001							
207 ,	01 - 01	Tul	11.47.00	0.001							
200, 	31 1	our,	11:47:23,	0.002							
259,	31	Jul,	11:48:23,	0.003						e e	
260,	31 .	Jul,	11:49:23,	0.005							ļ
261,	31 0	Jul,	11:50:23,	0.002							
262.	31 -	Jul	11:51:23	0.002							
263	31		11.52.22	0 004							
	0 ± 1 2 1		11.52.00	0.004							
204,	JT (Ju±,	11:03:23,	0.004							
265,	31 v	Jul,	11:54:23,	0.008							
266, .	31 .	Jul,	11:55:23,	0.002							1000
267,	31 .	Jul,	11:56:23,	0.000							
268	31 ,	Jul.	11:57:23	0.000							
269	31.	Tul	11:58:23	0.001							
	0 I I 2 1		11.50.00	0.001							
210,	JII	Jui	11:09:23,	0.002							

	·			
271,	,31	Jul,	12:00:23,	0.002
272.	31	ວັນໄ.	12:01:23.	0.002
272	21	Tu 1	12.02.22	0 001
213,	21	our,	12:02:23,	0.001
274,	31	Jul,	12:03:23,	0.002
275.	31	ປັນໄ.	12:04:23.	0 025
276	21	T. 1	10.05.00	0.023
210,	21	our,	12:00:23,	0.001
277,	31	Jul,	12:06:23,	0.012
278.	31	Jul.	12:07:23	0 001
270	21	T. 1	12.00.22	0 001
219,	<u>эт</u>	σατ,	12:08:23,	0.001
280,	31	Jul,	12:09:23,	0.002
281.	31	Jul.	12:10:23.	0 000
202	21	T11]	10.11.00	0.000
202,	21	our,	12:11:23,	0.000
283,	31	Jul,	12:12:23,	0.000
284.	31	Jul.	12:13:23.	0.002
285	31		12.14.22	0 000
205,	01 01	our,	12.14.25,	0.000
286,	31	Jul,	12:15:23,	0.005
287,	31	Jul.	12:16:23.	0.002
288	31	.Tu]	12.17.22	0 001
2007	21	~ ·	10,10,00	0.001
289,	31	Jul,	12:18:23,	0.001
290,	31	Jul,	12:19:23,	0.006
201	31	.Tul	12.20.22	0 002
~~~/	21		12.20.20	0.002
292,	· 3 T	Jui,	12:21:23,	0.002
293,	31	Jul,	12:22:23,	0,002
294	31		12:23.23	0 001
201	01	- 1	10 04 00	0.001
290,	31	σu⊥,	12:24:23,	0.001
296,	31	Jul,	12:25:23,	0.006
297.	31	Jul,	12:26:23.	0.015
298	21	Tul	12.27.23	0 006
200,	21		10.00.00	0.000
299,	31	Ju⊥,	12:28:23,	0.001
300,	31	Jul,	12:29:23,	0.001
301,	31	Jul.	12:30:23.	0.001
302	31	สมาโ	12.31.23	0 001
2027	21		10.00.00	0,001
303,	31	Jul,	12:32:23,	0.002
304,	31	Jul,	12:33:23,	0.001
305,	31	Jul,	12:34:23,	0.001
รกด์	31	.Tu l	12.35.23	0 000
200,	21	υu±,	12:33:23;	0.000
307,	31	Jui,	12:36:23,	0.001
308,	31	Jul,	12:37:23,	0.001
309,	31	Jul,	12:38:23,	0.001
310	31		12.30.23	0 001
$3\pm0$	21	Jul,	12.33.23	0.001
зтт,	31	Jui,	12:40:23,	0.001
312,	31	Jul,	12:41:23,	0.001
313.	31	Jul.	12:42:23.	0.000
314	31		12.13.23	0 002
317 <b>)</b>	21		10.44/00	0.002
315,	21	Jui,	12:44:23,	0.001
316,	31	Jul,	12:45:23,	0.000
317.	31	Jul.	12:46:23.	0.001
318	31	.Tu ]	12.17.23	0 001
210,	01 01	~ ¬	10 10 00	0.001
319,	31	Jul,	12:48:23,	0.000
320,	31	Jul,	12:49:23,	0.003
321,	31	Jul,	12:50:23,	0.000
322	31		12.51.23	0 000
	21	T]	10.50.00	0.000
323,	31	Jui,	12:52:23,	0.000
324,	31	Jul,	12:53:23,	0.003
325,	31	Jul,	12:54:23,	0.001
326.	31	Jul .	12.55.23	0 001
20 <b>0</b> ,	21	T. 1	10.56.00	0.002
521,	21	our,	12:00:23,	0.003
328,	31	Jul,	12:57:23,	0.003
329,	31	Jul,	12:58:23,	0.004
330.	31	Tul.	12.59.23	0 000
221	21	Jul J	13.00.00	0.000
0017 0017	97 97	oui,	10:00:23,	0.000
332,	31	Jul,	13:01:23,	0.000
333,	31	Jul,	13:02:23,	0.001
334.	31	Jນໄ.	13:03:23	0.000
33E 	21		12.04.02	0 000
330,	эт 2-	υμ <b>ι,</b>	10:04:23,	0.003
336 <b>,</b>	31	Jul,	13:05:23,	0.004
337,	31	Jul,	13:06:23,	0.002
338.	31	Jul.	13:07:23	0.000
339	31	.Tul	13.08.23	0 001
2221	01 01	July	12,00,20	0.001
340,	15	υu⊥,	13:09:23,	0.002
341,	31	Jul,	13:10:23,	0.000

.

, . . . .

> , . .

.

٦

342, 31 Jul, 343, 31 Jul, 344, 31 Jul,	13:11:23, 13:12:23, 13:13:23,	0.001 0.003 0.005	,			, ,	
	ı						·
			,				
· .							
	x				,		
				,			

.

pDR-1000 S/N: 00000 Tag Number: 17 Number of logged points: 206 Start time and date: 09:31:58 15-Aug Elapsed time: 03:26:00 Logging period (sec): 60 Calibration Factor (%): 100 Max Display Concentration: 0.145 mg/m³ Time at maximum: 12:30:00 Aug 15 Max STEL Concentration: 0.000 mg/m³ Time at max STEL: 09:31:58 Aug 15 Overall Avg Conc: 0.000 mg/m³ Logged Data: , Time Point, Date Avg. (mg/m³) 1, 15 Aug, 09:32:58, 0.007 2, 15 Aug, 09:33:58, 0.000 3, 15 Aug, 09:34:58, 0.000 4, 15 Aug, 09:35:58, 0.000 5, 15 Aug, 09:36:58, 0.003 6, 15 Aug, 09:37:58, 0.000 7, 15 Aug, 09:38:58, 0.000 0.013 8, 15 Aug, 09:39:58, 9, 15 Aug, 09:40:58, 0.000 10, 15 Aug, 09:41:58, 0.001 11, 15 Aug, 09:42:58, 0.000 12, 15 Aug, 09:43:58, 0.004 13, 15 Aug, 09:44:58, 0.013 14, 15 Aug, 09:45:58, 0.000 15, 15 Aug, 09:46:58, 0.002 16, 15 Aug, 09:47:58, 0.002 17, 15 Aug, 09:48:58, 0.000 18, 15 Aug, 09:49:58, 0.008 19, 15 Aug, 09:50:58, 0.000 20, 15 Aug, 09:51:58, 0.002 21, 15 Aug, 09:52:58, 0.000 22, 15 Aug, 09:53:58, 0.003 23, 15 Aug, 09:54:58, 0.000 24, 15 Aug, 09:55:58, 0.000 25, 15 Aug, 09:56:58, 0.000 26, 15 Aug, 09:57:58, 0.000 27, 15 Aug, 09:58:58, 0.001 28, 15 Aug, 09:59:58, 0.000 29, 15 Aug, 10:00:58, 0.001 30, 15 Aug, 10:01:58, 0.005 31, 15 Aug, 10:02:58, 0.000 0.000 32, 15 Aug, 10:03:58, 33, 15 Aug, 10:04:58, 0.001 34, 15 Aug, 10:05:58, 0.000 35, 15 Aug, 10:06:58, 0.001 36, 15 Aug, 10:07:58, 0.005 37, 15 Aug, 10:08:58, 0.001 38, 15 Aug, 10:09:58, 0.000 39, 15 Aug, 10:10:58, 0.000 40, 15 Aug, 10:11:58, 0.000 41, 15 Aug, 10:12:58, 0.000 42, 15 Aug, 10:13:58, 0.000 43, 15 Aug, 10:14:58, 0.000 44, 15 Aug, 10:15:58, 0.001 45, 15 Aug, 10:16:58, 0.002 46, 15 Aug, 10:17:58, 0.000 47, 15 Aug, 10:18:58, 0.000 48, 15 Aug, 10:19:58, 0,002 49, 15 Aug, 10:20:58, 0.001 50, 15 Aug, 10:21:58, 0.000 51, 15 Aug, 10:22:58, 0.000 52, 15 Aug, 10:23:58, 0.006 53, 15 Aug, 10:24:58, 0.002 54, 15 Aug, 10:25:58, 0,000 55, 15 Aug, 10:26:58, 0.000 56, 15 Aug, 10:27:58, 0.000 57, 15 Aug, 10:28:58, 0.001

	<b>م</b> ۳		10 00 50	
58,	15	Aug,	10:29:58,	0.000
59,	15	Aug,	10:30:58,	0.000
60,	15	Aug,	10:31:58,	0.000
61	15	Aug.	10:32:58	0.000
62	15	Aug/	10.33.59	0.000
02, co	10	nuy,	10.04.50	0.000
63,	15	Aug,	10:34:58,	0.000
64,	15	Aug,	10:35:58,	0.003
65,	15	Aug,	10:36:58,	0.001
66.	15	Aug.	10:37:58.	0.000
67	15	Aug	10.38.58	0 000
69	15	Aug,	10.20.50	0.000
00, co	15	Aug,	10.39.50,	0.000
69,	15	Aug,	10:40:58,	0.004
70,	15	Aug,	10:41:58,	0.002
71,	15	Aug,	10:42:58,	0.000
72,	15	Aug,	10:43:58,	0.004
73.	15	Aug.	10:44:58.	0.002
74	15	Aug,	10.45.58	0 000
75	15	nug;	10.40.50	0.000
10,	10	Aug,	10:40:50,	0.003
76,	15	Aug,	10:47:58,	0.000
77,	15	Aug,	10:48:58,	0.000
78,	15	Aug,	10:49:58,	0.002
79.	15	Aug.	10:50:58.	0.000
80	15	Aug	10.51.58	0 000
Q1	15	Tugy	10.52.50	0.000
01,	10	Ruy,	10,52,50,	0.000
82,	15	Aug,	10:53:58,	0.000
83,	15	Aug,	10:54:58,	0,000
84,	15	Aug,	10:55:58,	0.000
85,	15	Aug,	10:56:58,	0.000
86.	15	Aug.	10:57:58.	0.000
87	15	Aug	10.58.58	0 000
00	15	Nug/	10,50,50,	0.000
00,	T C T C	Aug,	11.00.50	0.002
89,	15	Aug,	11:00:58,	0.000
90,	15	Aug,	11:01:58,	0.000
91,	15	Aug,	11:02:58,	0.000
92,	15	Auq,	11:03:58,	0.000
93.	15	Aug.	11:04:58.	0.000
9 <i>0</i> ,	15	Aug,	11.05.58	0.000
05	15	Aug,	11.06.50	0.000
90, 00	10	Auy,	11:00:58,	0.000
96,	15	Aug,	11:07:58,	0.001
97,	15	Aug,	11:08:58,	0.001
98,	15	Aug,	11:09:58,	0.000
99,	15	Aug,	11:10:58,	0.003
100.	15	Aug.	11:11:58.	0.001
101.	15	Aug.	11:12:58	0.002
102	15	Aug,	11.13.59	0.002
102,	15	Aug,	11.14.50	0.000
103,	10	Aug,	11:14:50,	0.001
104,	15	Aug,	11:12:28,	0.000
LO5,	15	Aug,	11:16:58,	0.000
LO6,	15	Aug,	11:17:58,	0.000
L07,	15	Aug,	11:18:58,	0.002
L08,	15	Aug,	11:19:58,	0.000
109.	15	Aug,	11:20:58	0.000
110.	15	Aug.	11.21.58.	0 000
111	15	Aug	11.22.50	0,005
LLL,	10	Mug,	11.02.50	0.005
LLZ,	10	Aug,	11:23:38,	0.001
LIJ,	15	Aug,	11:24:58,	0.004
L14,	15	Aug,	11:25:58,	0.003
L15,	15	Aug,	11:26:58,	0.002
116,	15	Aug,	11:27:58,	0.003
17.	15	Aug.	11:28:58.	0.000
18	15	Aug	11:29:58	0,000
110	15	A1197	11.30.50	0.000
177	д Э 1 С	Aug,	11.01.00	0.000
LZU,	12	Aug,	11:31:58,	0.000
121,	15	Aug,	11:32:58,	0.000
122,	15	Aug,	11:33:58,	0.000
L23,	15	Aug,	11:34:58,	0.000
.24.	15	Aua.	11:35:58.	0.000
25.	15	Aug.	11:36:58.	0.000
26	15	211 <del>0</del>	11.37.58	0 001
201 07	тО 1 Г	Aug,	11.00.00	0.004
.21,	τD 1 F	Aug,	TT:28:28'	0.000
L28,	15	Aug,	11:39:58,	0.000

		•			
129,	15	Aug,	11:40:58,	0.000	
130	15	Aug	11 • 41 • 58	0 000	
1 2 1	10	7	11.40.50	0.000	
TOT'	CT C	Aug,	11:42:58,	0.001	
132,	15	Aug,	11:43:58,	0.000	
133,	15	Aug.	11:44:58.	0.001	
12/	15	7000	11.45.50	0,000	
104,	10	Aug,	TT:40:00,	0.000	
135,	15	Aug,	11:46:58,	0.000	
136,	15	Aug,	11:47:58.	0.001	
137.	15	Aug	11.48.58	0 003	
1 20	15	7.097	11.40.60	0.000	
100,	10	Auy,	11:49:00,	0.001	
139,	12	Aug,	11:50:58,	0.000	
140,	15	Aug,	11:51:58,	0.000	
141.	15	Aug.	11:52:58.	0.001	
1/2	15	Aug	11.53.59	0 000	
140	10	Ruy,	11 54 50	0.000	
143,	12	Aug,	11:54:58,	0.000	
144,	15	Aug,	11:55:58,	0.000	
145,	15	Aug,	11:56:58,	0.000	
146	15	Aug	11.57.58	0 000	
1 47	10	nugi	11.50.50	0.000	
147,	10	Aug,	11:38:38,	0.000	
148,	15	Aug,	11:59:58,	0.007	
149,	15	Auq,	12:00:58,	0.002	
150.	15	Aug	12.01.58	0 000	
151	15	Aug/	12.02.50	0.000	
1011	10	Aug,	12:02:00,	0.000	
152,	15	Aug,	12:03:58,	0.000	
153,	15	Aug,	12:04:58,	0,002	
154,	15	Aug,	12:05:58.	0.000	
155	15	Aug	12.06.59	0 000	
150,	10	nug,	12.00.50	0.000	
120,	10	Aug,	12:07:58,	0.000	
157,	15	Aug,	12:08:58,	0.005	
158,	15	Aug,	12:09:58,	0.000	
159	15	Aur	12.10.58	0 000	
160	16	7110	12.11.50	0.000	
T00,	10	Aug,	12;11;50,	0.000	
161,	15	Aug,	12:12:58,	0.000	
162,	15	Aug,	12:13:58,	0.000	
163.	15	Aug.	12:14:58.	0.000	
161	15	Aug	12.15.58	0 000	
101	10	nuy,	12.10.00,	0.000	
100,	10	Aug,	12:10:38,	0.001	
166,	15	Aug,	12:17:58,	0.000	
167,	15	Aug,	12:18:58,	0.000	
168.	15	Aug.	12:19:58.	0.000	
160	15	λυα	12.20.50	0.000	
170	10	nuy,	12:20:50,	0.000	
τ/0,	15	Aug,	12:21:58,	0.000	
171,	15	Aug,	12:22:58,	0.001	
172,	15	Aug,	12:23:58,	0.001	
173.	15	Αμα.	12:24:58.	0.000	
174	15	Aug,	10.25.50	0.005	
1/4/ 102	10	Aug,	10 00 50	0.005	
1/5,	15	Aug,	12:26:58,	0.008	
176,	15	Aug,	12:27:58,	0.000	
177,	15	Aug,	12:28:58,	0.000	
178.	15	Aug.	12:29:58.	0.024	
170	15	Διία	12.30.58	0 000	
100	10	Aug,	10.01.50	0.000	
180,	12	Aug,	12:31:58,	0.001	
181,	15	Aug,	12:32:58,	0.002	
182,	15	Aug,	12:33:58,	0.000	
183.	15	Aug.	12:34:58.	0.000	
19/	15	Aug,	12:35:58	0 000	
104, 105	15	nug,	10.00 50	0.000	
182,	τp	Aug,	12:30:58,	0.000	
186,	15	Aug,	12:37:58,	0.000	
187,	15	Aug,	12:38:58,	0.000	
188.	15	Aug.	12:39:58	0.000	
189	15	A110	12.40.59	0.000	
100	1 U	nuy,	10.41.50	0.000	
19U,	L D	Aug,	12:41:58,	0.001	
191,	15	Aug,	12:42:58,	0.000	
192,	15	Aug,	12:43:58,	0.000	
193.	15	Aua.	12:44:58.	0.000	
194	15	Aug	12.45.58	0 001	
	15 15	Aug,	10.16.50	0.00T	
10C	C L	мug,	10 48 50,	0.000	
196,	15	Aug,	12:47:58,	0.000	
197,	15	Aug,	12:48:58,	0.004	
198,	15	Aua,	12:49:58.	0,001	
199.	15	Auσ.	12:50:58	0.000	

200,	15	Aug,	12:51:58,	0.000
201,	15	Aug,	12:52:58,	0.000
202,	15	Aug,	12:53:58,	0.000
203,	15	Aug,	12:54:58,	0.000
204,	15	Aug,	12:55:58,	0.001
205,	15	Aug,	12:56:58,	0.000
206,	15	Aug,	12:57:58,	0.000

, .<del>..</del>

-