



**SITE INVESTIGATION REPORT (UPDATED)**

Prepared For  
Westwood Cleaners  
(WDNR BRRTS # 02-41-552537)  
8731 West North Avenue  
Wauwatosa, Wisconsin 53226

July 28, 2021



# HYDRODYNAMICS CONSULTANTS, INC.

Environmental Engineering, Consulting, and Contracting

July 28, 2021

Jennifer Dorman, Environmental Program Associate  
Wisconsin Department of Natural Resources  
2300 Martin Luther King Drive  
Milwaukee, WI 53212

Re: WDNR BRRTS #02-41-552537  
Westwood Dry Cleaners  
8731 W. North Ave  
Wauwatosa, WI 53226

Dear Ms. Dorman:

Hydrodynamics Consultants, Inc. (HDC) is pleased to submit this Site Investigation Report (Updated) for your review and approval.

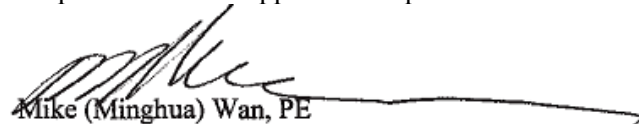
Based on the existing site investigation results and the groundwater/vapor monitoring reports filed with the WDNR, Hydrodynamics Consultants, Inc. believes the concentrations of the released drycleaning solvent, tetrachloroethylene (PCE) and its degraded compounds (such as trichloroethylene -TCE, cis-1,2/trans-dichloroethylene - DCE, and vinyl chloride - VC), have been stable or decreasing, with no apparent migration away from the current locations. The contaminants found in the soil, groundwater, and soil vapor would not impact the environment or human health and safety if they are properly managed or controlled. To minimize the risks, HDC proposes to (1) use the building foundation/concrete floor inside the drycleaning plant as an engineered barrier (cap) to exclude direct soil contact exposure, (2) install, operate, and maintain a soil vapor mitigation system (sub-slab depressurization system) to mitigate the vapor intrusion risks, and (3) use groundwater usage restrictions in the potentially groundwater impact areas to exclude the groundwater exposure pathways. The site may be closed with the conditions included in the Geographic Information System (GIS) Registry.

To pursue the conditional site closure, HDC recommends installation of the soil vapor mitigation system proposed in this report in the areas where soil VOC exceedances were reported. Upon the DNR's review and approval of this report, a Workplan for the site closure including the soil gas mitigation system will be prepared and submitted to the DNR for review and approval.

Please contact me at Mike\_Wan@HydrodynamicsConsultants.com or 630-724-0098 for any questions.

## Certifications

I, Mike (Minghua) Wan, hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the Rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in Wis. Adm. Code."



Mike (Minghua) Wan, PE

Maple Testing Services, Inc. D/B/A Hydrodynamics Consultants, Inc.



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## 1.0 EXECUTIVE SUMMARY

Hydrodynamics Consultants, Inc. (HDC) has been retained by the owner to complete this site investigation with quarterly monitoring at and around the Westwood Cleaners site, located at 8371 West North Ave. Wauwatosa, WI 53226. The site investigations and quarterly monitoring were summarized chronologically as follows.

In August 19, 2008, HDC performed limited soil boring and testing at the subject property. Four (4) soil borings were advanced to a depth of 16' deep each, and two soil samples were collected from each boring for laboratory analysis of chlorinated volatile organic compounds (cVOCs). The analytical results indicated up to 320,000 ug/Kg of tetrachloroethene (PCE or perc) and up to 3,970 ug/Kg of trichloroethene (TCE) were present in the samples at the site.

Based on the findings, HDC submitted a Site Investigation Work Plan (SIWP). On July 31, 2018, the WDNR received HDC's revised SIWP and approved it on August 7, 2018.

From September 16 to 19, 2018, HDC performed a Site Investigation (SI) at this site. Twelve new soil borings (NSB1-NSB12) were completed to a depth of 16' each. Three representative soil samples were collected from each boring. Low levels of PCE, TCE, and vinyl chloride (VC) were detected from these borings. Six of the soil borings were converted to monitoring wells (MW1 to MW6). These wells were 1"- to 2"-diameter PVC wells constructed to a depth approximately 15' below the ground surface. Five sub-slab soil vapor ports (SV1 - SV5) were installed at this site. One soil vapor sample was collected from each of these ports during the site investigation. Up to 1,200 ug/m<sup>3</sup> of PCE and 100 ug/m<sup>3</sup> of TCE were found in the soil vapor samples. The highest level of PCE was found in the basement of the adjoining restaurant building at SV2.

From September 19, 2018 to July 13, 2019, groundwater samples were collected from all of the existing monitoring wells on a quarterly basis for a period of one year. The quarterly groundwater sampling results confirmed that up to 4,300 ug/L of PCE, 120 ug/L of TCE, 23 ug/L of cis-1,2-dichloroethene (cDCE), and 20 ug/L of VC were present in MW2, MW5, and MW6. The concentrations of the cVOCs were stable or decreasing.

Since VOC concentrations in groundwater monitoring well MW2, which was installed near the property line, contained 53 ug/L of PCE in the last monitoring event dated July 13, 2019, further groundwater-impact extent evaluation to the south and southwest of the property was proposed by HDC. The WDNR approved HDC's Change Order #1, Additional Site Investigation Work Plan on February 3, 2020. The Change Order #1 included installation of 3 additional soil borings, 3 monitoring wells, and to complete quarterly soil vapor and groundwater monitoring for a period of one year. The Work Plan was approved by WDNR.

From July 28, 2020 to August 10, 2020, HDC performed an Additional Site Investigation and 1<sup>st</sup> Quarterly Monitoring at this site. Three additional soil borings (NSB13-NSB15) were installed to the depth of 16' below the ground surface. Three soil samples were collected from these new borings and analyzed for VOCs. The soil analytical results confirmed that the soil VOC concentrations are all



below the NR 720 Residual Contaminant Level (RCLs) for the groundwater pathway for VOCs. Three additional monitoring wells (NMW7-NMW9) were installed to the depth of 15' each. All the existing and new monitoring wells were sampled for VOCs, and the analytical results confirmed cVOCs were present in existing monitoring wells MW2, MW5, and MW6, with the same order of contaminant concentrations as the levels we previously found. Low level of PCE (10 ug/L) was also found in a new monitoring well, MW8, with concentration higher than the WDNR's Enforcement Standard of 5 ug/L. This monitoring well is located in the down-gradient direction (southwest) to the site. Two new sub-slab soil vapor sampling ports (SV6 and SV7) were installed in the building, and soil vapor samples were collected from all of the vapor sampling ports (SV1 to SV7) for analysis of VOCs with US EPA Method TO-15. The analytical results confirmed that soil vapor PCE (up to 38,000 ug/m<sup>3</sup>) and TCE (630 ug/m<sup>3</sup>) concentrations in the source area (around SV-7) have exceeded the US EPA's Vapor Risk Screening Levels (VRSLs: 6,000 ug/m<sup>3</sup> for PCE and 290 ug/m<sup>3</sup> for TCE).

From July 28, 2020 to June 16, 2021, HDC completed three additional quarterly soil vapor and groundwater samplings at this site. All quarterly sampling events included collecting samples from all the existing monitoring wells (MW1 to MW9) and sub-slab vapor sampling ports (SV1 to SV7). The quarterly groundwater sampling results confirmed that up to 4,600 ug/L of PCE, 180 ug/L of TCE, 23 ug/L of cis-1,2-dichloroethene (cDCE), and 7.8 ug/L of VC were present in MW2, MW5, MW6, and MW7. The concentrations of the cVOCs were found stable or decreasing.

This report will summarize all the results of the site investigations and the quarterly sampling results. All previous site investigation and monitoring results are incorporated in this report, especially in the figures. Sample results notifications to the DNR and property owner have been submitted separately. For details of the previous results, please refer to previous reports filed with the Wisconsin DNR.

Based on all analytical results to date, Hydrodynamics Consultants, Inc. believes the concentrations of the released drycleaning solvent, tetrachloroethylene (PCE) and its degraded compounds (such as trichloroethylene -TCE, cis-1,2/trans- dichloroethylene - DCE, and vinyl chloride - VC) have been decreasing or stable, without any sign of impact to the environment or human health and safety. No apparent contaminant migration has been monitored, either. HDC requests that the WDNR consider this case for conditional closure, with the following conditions:

1. Groundwater contamination remains at this site, including the subject property at 8735 W. North Avenue, and potentially the adjoining property to the east at 8725 W. North Avenue, and the public alley to the south of the above two properties (See Groundwater Usage Restriction Area in Figure 6). Groundwater well installation or extraction from these properties should be prohibited.
2. Residual soil contamination exists that must be properly managed should it be excavated or removed. The existing building concrete floor and foundation must be maintained over the contaminated area as an engineered barrier to prevent any soil contact. The DNR must be notified to approve any change to this barrier. The 40' by 35' Engineered Barrier (cap) Area is illustrated in Figure 6.
3. The sub-slab soil vapor contamination is present under the drycleaning plant area. The proposed soil vapor mitigation system, which is a sub-slab depressurization system, must be properly installed to mitigate any indoor vapor intrusion risks. The vapor mitigation system,



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upon installation, must be kept operational and properly maintained. The sub-slab depressurization system should cover the same 40' by 35' Engineered Barrier Area as illustrated in Figure 6.

4. Upon the DNR's approval of the conditional case closure for this site, the monitoring wells and the soil vapor sampling ports should be properly plugged and the surface be restored. See Appendix V, Well/Borehole Abandonment Reports, for current abandoned wells.
5. The site should be included in the Geographic Information System (GIS) Registry upon closure.





## **2.0 INTRODUCTION**

### **2.1 Location and Project Information**

1. Site Owner:

Dong Sin  
8371 West North Avenue  
Wauwatosa, WI 53226

2. Site Address:

8371 West North Avenue  
Wauwatosa, WI 53226

3. Site Location (Figure 1):

NE ¼ of the NW ¼ of Section 21, T07N, R21E, Milwaukee County, Wisconsin.

4. Environmental Consultant:

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5. WDNR BRRS#:

02-41-552537

6. WDNR Project Manager:

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### **2.2 Site Location Map**

Please see attached Figure 1, Site Vicinity Map

### **2.3 Site Physiographical and Geological Information**

#### **2.3.1 Topography/Geology**

The general topography of land is flat with an elevation of approximately 705 feet above mean sea level (MSL). The local ground surface slopes gently toward the west or southwest.

No bedrock is encountered in the borings. According to the Glacial Deposit Map compiled by Wisconsin Geological & Natural History Survey in 1976, the site is located on the End Moraine deposit. The thickness of the glacial deposit is between 50' and 100' according to the Glacial Depth to Bedrock Map compiled by L.C. Trotta and R. D. Otter in 1973.

The closest surface water body is the Menomonee River which is approximately 1,600 feet to the west or southwest of the subject property.

The subsurface soil encountered in the soil borings is predominantly clay to silty clay from the surface down to the end of the borings at 16' below the ground surface, with thin lenses of silty fine sand/gravel being present in some borings.

### **2.3.2 Hydrogeology**

The site is located in the City of Wauwatosa where the ground surface is mostly covered with asphalt pavement or concrete. Surface water drains to the municipal storm water system through the manhole sumps in the parking lots and storm water grills along the edges of streets. Surface water may recharge to the groundwater table via infiltration in landscape areas or open fields where no surface barrier is present. The subject property is mostly covered with asphalt pavement or concrete slabs except for the lawn covered area to the west of the strip mall building. The groundwater study conducted through the monitoring wells at this site discovered that the local groundwater flows generally to the west or southwest, with high hydraulic conductivity as detailed in later sections of this report. The regional groundwater table may slightly slope to the southwest and discharge into the Menomonee River system located about 1,600 ft. southwest of the site. This water surface elevation at Menomonee River channel is about 656' above the mean sea level (or about 49' below the concrete floor at Westwood Cleaners).

### **2.4 Background Information**

The subject property is located on the southeast corner of the intersection of West North Avenue and North Ludington Avenue in the City of Wauwatosa, WI (See Figure 1, Site Vicinity Map).

According to our inquiry, the subject dry-cleaning plant has been operating there since 1985. Drycleaning solvent, tetrachloroethene or perchloroethene (perc or PCE) has been used and stored at this site since 1985. Prior to 1985, no known record indicates that the site had been involved with any hazardous materials. Therefore, PCE and its degraded compounds (such as trichloroethene (TCE), cis-1,2-dichloroethene (cDCE), and vinyl chloride (VC) (called chlorinated volatile organic compounds, cVOCs) are the only contaminants of concern (COCs) for this site. Based on our observation and inquiries of the owner, the subsurface contamination of PCE may have been from historical spills or incidental releases during the past drycleaning operation. Further PCE release is unlikely because the drycleaning facility has installed secondary containments under the drycleaning machine and attention has been paid to proper storage and handling of the drycleaning generated wastes.

Hydrodynamics Consultants, Inc. (HDC) completed a preliminary site investigation on August 19, 2008. HDC performed limited soil boring and testing at the subject property to confirm the site



conditions. Four (4) soil borings (SB1 to SB4) were advanced to a depth of 16' each boring and two soil samples were collected from each boring for laboratory analysis of volatile organic compounds (VOCs). The analytical results indicated the drycleaning solvent, tetrachloroethene and its degraded products are present at the site. Based on the laboratory analysis from samples collected from these 4 borings, up to 320 mg/kg of PCE was present in the borings (See Figure 3, Soil cVOC Distribution Map).

A Potential Claim Notification was completed and sent to the Department of Nature Resources (DNR) on August 28, 2008. Jennifer Feyerherm, Grant Manager of the WDNR sent the owner, Mr. Song Sin a letter on July 20, 2016, stating the site is qualified for reimbursement from the Wisconsin Drycleaners Environmental Response Fund (DERF).

Based on the initial site inspection, HDC believes that the contamination is related to unknown incidental spills or releases of perchloroethene near the drycleaning machine and waste storage drums. Other similar incidents may also have taken place near the back door through which the drycleaning solvent was delivered and waste solvent drums were removed. The drycleaner owner has implemented secondary storage containers under the potential source containers in order to minimize the impact of any incidental releases or spills. It appears that this dry-cleaner operation is in compliance with all the regulatory requirements.

The surrounding properties or store spaces have been used for commercial purposes without known involvement of any hazardous materials, except for petroleum products. Based on the ERRTS databases, a gasoline filling station is present on the northwest corner of the intersection of North Avenue and Ludington Avenue (8806 W North Avenue, WDNR BRRTS#: 03-41-100572). The gasoline station site was conditionally closed with proper GIS Registry. The property at 8901 West North Avenue, on the southwest corner of the intersection of North Avenue and Ludington Avenue (WDNR BRRTS#: 03-41-563748), was also used as a gasoline filling station. Petroleum release was found in that property. No further information was readily available for review.

There is no known risk at this time from the released cVOCs to the public health, safety, welfare, or the environment.



## 3.0 SAMPLE COLLECTION METHODOLOGIES AND IMPLEMENTATION

### 3.1 Soil Sample Collection

During the soil sampling process, each soil boring is advanced with a truck-mounted (outside) or a portable (inside) GeoProbe system, and is continuously sampled with a 4-foot stainless-steel sampling tube lined with a four-foot-long plastic liner. Soil Borings Logs with Field PID Readings can be found in Appendix III .

Upon retrieval, the plastic liner along with the soil core is immediately taken out of the sampling tube and is cut open for soil sampling. To minimize the loss of the contaminants through volatilization, the following procedure is followed in soil sampling activities in chronological order:

After the plastic liner is cut open, the entire soil core is screened with the PID to determine the highest VOC concentration segment of the soil core where it is then immediately sampled using purge-and-trap samplers (plastic syringes) for a total of four discrete soil samples on the same segment. Each discrete soil sample is collected into three (3) 40-ml glass vials with 2 containing a sodium bisulfate preservative and 1 containing a methanol preservative. Said glass vials are provided by the laboratory and are deemed clean. Upon collection, soil samples are immediately preserved in an ice chilled cooler. One 4-ounce glass jar is also packed with the same sample for testing of the moisture content and other parameters.

In addition to the highest PID reading segments, soil samples are also taken at every 2-foot interval of the entire length of the four-foot soil core for head-space screening with PID. These PID screening samples are placed in air-tight plastic bags. Prior to taking the PID readings, we allowed enough time for each soil sample to stabilize. PID measurements are performed using the standard headspace method in which the soil organic vapors that built up in the top 3/4 empty headspace are directly measured with a MiniRAE2000 PID meter. The PID meter is calibrated daily to read in 100 ppm benzene equivalent of Isobutylene in a detection range from 0.1 ppm to 9,999 ppm.

The entire four-foot-long soil core is then carefully inspected for odor and visual signs of contamination, and a description of the subsurface strata, variation of soil color, compositions, etc. is noted.

Based on the combined results of the field PID measurements and visual inspection/observation of the soil core brought up by the GeoProbe, HDC selects representative soil samples for laboratory analyses from each soil boring.

All VOC samples are collected, stored, and handled in accordance with the EPA's SW-846 Method 5035.

Proper decontamination procedures are followed during the soil sampling activities. The sampling tubes are washed and rinsed prior to and between each sampling activity. A new plastic liner is used



for each soil boring advancement. A new pair of gloves is used for the collection of each soil sample.

The Chain of Custody documentation is strictly adhered to during the field sampling activities and during the holding and delivery of the soil samples from the field to a NELAP NIHA-LAP accredited laboratory (Stat Analytical Corporation in Chicago, Illinois) for analysis. Please see Appendix VI, Sample Chain-of-Custody and Laboratory Analytical Results, for Chain-of Custody information.

During the field sampling activities, a waterproof pen is used to mark each soil sample container. The information marked on the sample containers includes, but is not limited to, the sample date & time, the sample identification & depth, the sample location, and any other applicable data.

All samples are generally picked up by an analytical laboratory the same day of sampling or the next working day. Before they are picked up, they are stored in a cooler with ice packs. The cooler is stored in our refrigerator, which is set up to 4°C.

A trip blank (MW-TB) and one duplicate sample (MW1-D) are included with the sampling.

Upon completion of the soil boring activities, each soil boring is filled with bentonite, and then patched with concrete or asphalt to match the original surface finish. See Appendix V, Well/Borehole Abandonment Reports, for current abandoned well information.

### ***3.1.1 Soil Sampling Point Determination from Soil Cores***

During soil sampling activities in the field, each 4'-section soil core is continuously retrieved, screened, logged, and described, with representative soil samples being collected at a depth interval of every two feet. All of the soil samples are sealed in Ziploc bags, then screened and measured with a photo-ionization detector (PID, MiniRAE2000 which is equipped with a 10.6 eV lamp and calibrated with the 100-ppm benzene equivalent of isobutylene) in the field for the presence and concentrations of volatile organic compounds (VOCs) in the soil samples.

However, due to the cost concern, not every soil sample collected is submitted for laboratory analysis. Rather, the soil sampling points, from which the representative soil samples are selected for laboratory analysis, are determined using the following criteria:

- The first soil sample is selected for analysis within the upper 3 feet to evaluate the soil direct contact pathway and the surface soil conditions.
- The second soil sample is selected for analysis at the most contaminated segment based on PID readings, odor, visual observation, etc. in order to define the highest level of contamination in the soil boring.
- The third soil sample is collected at a depth representing the lower boundary of the contamination plume in a vertical plane. This lower boundary of the contamination plume is

identified in the field by PID reading or other observations. This soil sample is collected to help delineate the vertical soil contamination.

For the soil borings placed in the source area, additional soil samples may be collected to delineate the vertical distribution of the contaminants of concern (COCs).

### **3.2 Sub-Slab Soil Gas/Vapor Sample Collection**

During sampling activity, sub-slab vapor samples are collected, pursuant to Publication RR-800 (January 2018), Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin, and RR986 (Sub-Slab Sampling Procedures), to assess the indoor sub-slab vapor quality. Based on the site-specific conditions, the following air sampling procedures are applied for each sub-slab indoor sampling port (see Figure 5b, Sub-Slab Vapor Sampling Diagram, and Appendix I, Site Investigation Photos):

#### **Construction of Sampling Port:**

- Drilling a ¾"-diameter sub-slab penetration hole through the concrete floor inside the building at the designated location where drilling is accessible.
- Expanding the surface 2" depth of the ¾"-diameter penetration hole with a 1"-diameter drill bit, and thoroughly cleaning the entire hole with vacuum and brush.
- Properly insert a vapor sampling assembly into the sub-slab sampling hole. The vapor sampling assembly includes a ½"-diameter copper tube connector that connects a Teflon tube (1/8" ID and 1/4" OD) on each end, with a 1"-diameter stainless steel sleeve mounted on the top of the tube connector. The 1"-diameter stainless sleeve retains the vapor assembly into the hole at 2" depth inside the concrete floor (See Figure 5b).
- Sealing the surface 1.5" depth of the annular space in the sampling hole with modeling clay, and push the modeling clay tightly against the concrete wall and around the Teflon tube in the center.
- Extending the Teflon tube from the vapor sample assembly to above the concrete floor for vapor sampling with a coupler and shut-off valve.

#### **Sampling Port Water Dam Test:**

To ensure there is no air leakage from the sampling port, a water dam test will be used and described as following:

- The floor around the sampling port is carefully cleaned;
- A 1.5"-diameter and 1.5" tall PVC coupler ring is placed around the sampling port with the sampling outlet tubing extruding about 2" above the ground;
- Modeling clay is used to seal between the bottom of the PVC ring and the concrete floor to create a water dam around the sampling port;
- Bottled water is poured inside the dam and we watch for a water level change. If the water level inside the dam drops, re-seal the port and re-test, until it is stable for 5 minutes.

#### **Sampling Device and Shut-In Test**

The sampling device is a 6-liter Summa canister and attached air flow regulator prepared by a certified lab. The shut-in test for the device provided by the lab is as following:

- Check to make sure the canister valve (C) is tightly closed, the air flow regulator is tightly connected on the canister, and the air inlet cap on the regulator has a tight fit;
- Quickly open and close the canister valve for ½ turn, and watch to make sure the pressure gauge stays at its preselected pressure (around 30" Hg) without dropping for 30 seconds. If a pressure drop is observed, re-tighten the connections and cap, and re-test it until it is tight.

#### **Sampling Train Assembly**

- A 3-way valve (A) that has one inlet and two outlets is tightly connected with a ¼" OD and 1/8" ID Teflon tube on each of the three ends. The 3-way valve can turn on one outlet while turning off the other outlets simultaneously.
- The inlet end of the 3-way valve is connected to a shut off valve which is attached to the sampling tube inserted in the sampling port inside the concrete floor. One of the two outlets on the 3-way valve is connected to the inlet of the Summa canister while the other outlet is connected to a purging pump (with PID instrument) to purge the vapor sampling train and test the subsurface vapor VOCs.

#### **Sampling Train Shut-In Test**

- Check to make sure the canister valve (C) is tightly closed;
- Remove inlet cap from the canister and connect the inlet to one of the outlets of the 3-way valve (A);
- Turn off the vapor sampling port valve (B) and turn on the 3-way valve to allow flow to the canister inlet;
- Quickly open and close the canister valve; ½ turn, and watch to make sure the pressure gauge stays at its preselected pressure (around 30" Hg) without dropping. If a pressure dropping is observed, re-tighten the connections and cap until they are tight without leakage.

#### **Sampling Train Purging and PID Reading**

- Turn on the outlet valve connected to the sampling port to allow soil vapor flow from the sub-slab space;
- The 3-way valve is first turned on to the purging pump outlet to purge 3 times the volume of the sampling train (including volume of tubing and the sampling port cavity, up to about 1 liter or 5 minutes) prior to sampling;
- Read the VOC concentrations while purging with the photo-ionization detector;
- Turn the 3-way valve to the canister inlet direction before removing the purging pump.

#### **Sub-slab Soil Vapor Sampling**

- Turn the 3-way valve to connect the inlet for the Summa canister to allow soil vapor to be sucked into the pre-vacuumed Summa canister from the sub-slab;
- Paper towels are placed over the sampling train and Isopropyl Alcohol tracer fluid is spread over the towels covering the sampling train during the sampling to ensure no leakage into the sampling train.

- Turn on the Summa canister valve to withdraw soil vapor from the sub-slab space and observe the vacuum pressure drop on the gauge from about -30" Hg to about -5" Hg.
- Turn off the canister valve when the pressure gauge reaches below -5" Hg and replace and tighten the canister cap (the withdrawing process may take about 60 minutes for each sample to fill a 6-liter Summa canister).
- Record the final canister pressure and flow controller number on the canister sample tag, including sample ID and other information.
- The sample is then sent to the laboratory for analysis of VOCs using Method TO-15, including isopropyl alcohol content as its QA/QC parameter.
- The sampling port is sealed and covered for next sampling.

### **3.3 Groundwater Monitoring Well Installation and Sample Collection**

Generally, monitoring wells are constructed with 1"-diameter 10-foot PVC screen and 5-foot PVC riser. The annular space of the well is first filled with coarse silica sand to a depth of about 1 foot above the well screen, topped with about 1 to 2 feet of fine sand filter, and then bentonite seal above. The wells are covered with flush-mounted steel manholes and grouted onto the surface above the bentonite seal. Upon completion, the groundwater monitoring wells are developed by purging the standing water in the well until they are mostly dry. Monitoring Well Construction and Development Logs can be found in Appendix IV.

#### *Monitoring Wells Variance:*

The monitoring wells are 15'-deep groundwater table observation/sampling wells installed in the glacial till formation located inside and around the Westwood Cleaners facility. Due to space limitations, access to sampling locations with large drilling equipment is unattainable; therefore, variance is sought to construct the monitoring wells with 1"-diameter screens and casings installed inside boreholes drilled with 2"-diameter probes.

WDNR project manager approved the requested variance from Wis. *Admin Code*, § NR 141.19 which requires permanent monitoring wells be installed in borings with a diameter of at least 4" larger than the diameter of the well casing.

During groundwater sampling, the following procedures are adhered to:

- Prior to groundwater sampling, the wells are measured with a water level indicator, and then purged with a designated disposal bailer for 3 times of the well volume or until they are mostly dry.
- When sufficiently recharged, a groundwater sample is then retrieved with designated PVC bailer equipped with a Teflon ball check valve at the bottom, from the well.
- Each groundwater sample retrieved is dispensed through a small PVC tube inserted in the bottom of the bailer into two 40-ml glass vials containing HCL preserve.
- The sample containers are closed with Teflon-lined lids.



- After the vials are filled with water samples, we check to see if the vials are free of bubbles by holding the vials upside down. If bubbles are found, a new groundwater sample is collected from the well.
- Upon completion, groundwater samples are immediately stored in an ice-chilled cooler.

Proper decontamination procedures are followed during the groundwater sampling activities. A new PVC bailer is used in each groundwater sampling activity. A new pair of gloves is used for collecting each groundwater sample. The water table indicator and tools are cleaned with soaped water and rinsed thoroughly before each use.

The Chain of Custody documentation is strictly adhered to during the groundwater sampling activities and during the delivery of the groundwater samples from the field to the laboratory.

During the field sampling activities, a waterproof pen is used to mark each groundwater sample container. The information marked on the sample containers includes, but is not limited to, the sample date and time, the sample identification, the sample locations, and any other applicable data.

All samples are generally picked up by an analytical laboratory on the next working day. Before they are picked up, they are stored in a cooler with ice packs. The cooler is stored in our refrigerator, which is set to 4°C. Collected groundwater samples are analyzed by Stat Analytical Corporation which is a laboratory accredited by WDNR.

A trip blank (TB), a duplicate sample (D), and a temperature blank are included with each groundwater sampling event. However, these samples are only analyzed when required.

### **3.4 Sample Handling**

The collected samples are labeled, packaged, and shipped in accordance with procedures outlined above.

### **3.5 Quality Assurance/Quality Control**

Quality control (QC) samples may be collected to evaluate the field sampling and decontamination methods, and the overall reproducibility of the laboratory analytical results. Specifically, QC samples may be collected at the following frequencies:

- Trip Blank - 1 per shipment or cooler for water samples
- Field duplicate samples - 1 per 10 investigative samples for groundwater samples
- Matrix spike/matrix spike duplicate samples - 1 per 20 non-air investigative samples

Trip blanks are submitted for laboratory analysis to assess for potential contamination during handling, shipment, and storage of the investigative samples. Trip blanks are filled by the analytical laboratory with organic-free water and are kept with the investigative water samples throughout the field event. Field duplicate samples are collected for each investigative matrix (soil gas, sub-slab



vapor, ambient air, indoor air, groundwater, and/or soil) as associated investigative samples. Field duplicate samples are processed, stored, packaged, and analyzed by the same methods as the investigative samples.

The HDC project manager, Mr. Mike Wan, PE, is responsible for ensuring that sample quality and integrity are maintained and that sample labels and documentation procedures are correct and accurate.

### **3.6 Decontamination and Waste Soil Handling**

Dedicated sampling equipment is primarily used during the collection of soil and groundwater samples. Used sampling equipment and personal protective equipment (PPE) is double-bagged and disposed of as dry, industrial waste.

Non-disposable equipment (such as the stainless-steel tube coring devices, water table measurement and slug test equipment) is decontaminated between sampling/usages. They are cleaned with environment-friendly detergent water and rinsed with tap water. Decontamination water use is kept to a minimum, and typically 5-10 gallons of rinsate water is generated. The decontamination water is disposed of on-site by evaporation over a hard surface.

The site investigation-generated soil cutting was stored inside a 55-gallon plastic drum and to be disposed of by US Ecology in Michigan.



## 4.0 INITIAL SITE INVESTIGATION AND FIRST QUARTERLY GROUNDWATER MONITORING/SAMPLING

On September 16, 2018, HDC, Inc. crew members used a GeoProbe system to collect soil samples (NSB1-NSB12) from in and around the subject property. On the same day a soil vapor sample from SV3 was completed. Ground water sampling (MW1-MW6) and the remainder of the soil vapor sampling (SV1, SV2, SV4, and SV5) took place during a second site visit on September 19, 2018.

From September 19, 2018 to July 13, 2019, groundwater samples were collected from all of the existing monitoring wells on a quarterly basis for a period of one year.

Please refer to the attached site map (Figure 2) for sampling locations.

### 4.1 Initial Site Investigation Outline

To satisfy the requirements of the WDNR and the approved SIWP, HDC conducted the following during the site investigation at the subject property:

- Contacted the diggers hotline to request the public utility companies to mark all their utility lines at and around the property, including the property to the east and the surrounding public right of ways.
- Acquired access permits from the neighboring stores and properties.
- Mobilized crews for drilling, sampling, and testing to the project site to conduct the field work.
- Completed 12 soil borings to a depth of 16 feet (each) below the ground surface. Each boring was logged in accordance with the Unified Soil Classification System ("USCS") to document the subsurface strata, variation of soil color, compositions and visual evidence of drycleaning solvent contamination.
- Continuously retrieved soil samples from each of the above soil borings, and collected soil samples at 2'-intervals for screening with a photo-ionization detector (PID) for VOC concentrations.
- Selected 36 representative soil samples, three from each soil boring, for laboratory analysis of VOCs. Each soil sample was collected in accordance with SW-846 Method 5035 using a purge-and-trap soil sampler. A bulk soil sample was packed into a 4-ounce glass jar for the determination of the sample's dry weight. All soil samples submitted were analyzed for volatile organic compounds (VOCs) utilizing SW-846 Method 8260B.



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- An additional 2 soil samples were collected from outside the potential contamination plume. These soil samples were analyzed for fractional organic carbon contents (foc) in accordance with ASTM D 2974-87, entitled "Standard Test Methods for Moisture, Ash and Organic Matter of Peat and Other Organic Soils". The foc content helped determine the attenuation capacity of local soil to the VOCs at this site.
- Converted 6 soil borings to 6 groundwater monitoring wells to a depth of 15 feet or to a depth of at least five feet below the water table. These wells were constructed with a 10'-long 1"-diameter PVC screen in the bottom and a 5'-long case above, installed inside a 2"-diameter boring drilled with the GeoProbe. The well annular space was packed with coarse silica sand from the bottom to about 1' above the screen section. Fine sand pack filter (about 1' to 2' thick) was added above the coarse sand pack, and then the annular space was sealed with bentonite to near the surface. The monitoring wells were flush-mounted with a steel manhole and cemented on the ground surface above the bentonite seal. Upon completion, all wells were developed by purging the wells dry with designated new bailers.
- Performed 4 rounds of groundwater monitoring and sampling on a quarterly basis for a period of one year. Each quarterly sampling includes collection and submission of 8 representative groundwater samples for laboratory analysis (6 samples from the 6 monitoring wells, 1 for duplicate, and 1 for trip bank). The groundwater samples are collected using a PVC bailer designated to each well and immediately preserved in 4-ml glass vials with HCL preservation. The groundwater samples submitted are analyzed for VOCs utilizing SW-846 Method 8260B. Proper well purging is completed before the sampling.
- Completed 4 rounds of water table depth measurements from the monitoring wells and surveyed the ground surface to determine the groundwater table slope or flow directions.
- Performed 1 Slug test in one 2"-diameter well (MW1) to determine the hydraulic conductivities for water-saturated subsurface soil formations.
- Conducted a water-supply well survey by contacting the local municipalities and related parties to determine if there is any private or community well in the vicinity of the subject drycleaner facility and to determine if the released cVOCs could potentially impact any water supply wells.
- Collected 6 representative soil vapor samples (5 from the soil vapor sampling ports, SV1 to SV5, and one duplicate from SV3 inside the subject building and the adjoining building to the east to determine if soil vapor intrusion is a risk concern at this site. Six-liter Summa canisters were used for the soil vapor collection. Procedures mandated in the RR-800, "Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin" were followed.
- Prepared a Site Investigation Report in accordance with WDNR's NR716.

## **4.2 Selection of Soil Boring, Monitoring Wells, and Sub-slab Vapor Port Locations**

Prior to the emplacement of soil borings and monitoring wells, HDC visually and physically inspected the subject facility to identify the areas of concern that are present. The site inspection is also aided with the review of public records and an interview with the current storeowner or occupant. The previous reports, if any, were a guide to the additional soil and groundwater sampling.

Based on the above studies, the following areas of concern have been identified at the subject drycleaner facility and warrant further investigation:

- Area around current drycleaning machine, since the drycleaning activity around the machine is presumed to be the main potential source for PCE release at the subject facility.
- Previous perc-based drycleaning machine locations, if any, are also major potential contamination sources;
- Locations near floor drains, sumps, or pipelines, if any;
- The waste solvent storage areas;
- The back door area where drycleaning solvent is/was delivered and waste solvent/filter are/were removed; and
- Areas identified by previous site investigations.

### **4.2.1 Soil Boring Locations**

Our soil sampling locations (see Figure 2, Site Map) have been strategically selected based on the above conditions. The locations were also reviewed and approved by the WDNR's project manager. Below are the 12 soil boring locations (NSB1 to NSB12) and the rationales:

NSB1 – to delineate the potential contamination plume to the west near the property line.

NSB2 – to delineate the potential contamination plume to the south near the property line.

NSB3 – to delineate the potential contamination plume to the east in the neighboring property.

NSB4 – to delineate the potential contamination plume to the north near the property line.

NSB5 – to confirm the contamination degree in close proximity to the drycleaning machine where drycleaning solvent, tetrachloroethene (PCE or perc) and its degraded products were previously discovered (to characterize the source areas).

NSB6 – to confirm the contamination degree in close proximity to the drycleaning machine where drycleaning solvent, tetrachloroethene (PCE or perc) and its degraded products were previously discovered (to characterize the source areas).



NSB7 – to confirm the concentrations of contamination to the west of the drycleaning machine where drycleaning solvent, tetrachloroethene (PCE or perc) and its degraded products was previously discovered.

NSB8 – to delineate the potential contamination plume to the southwest.

NSB9 – to confirm the concentrations of contamination in close proximity to the outdoor disposal area and next to the waste storage drum area.

NSB10 – to confirm the concentrations of contamination west of the drycleaning machine where drycleaning solvent, tetrachloroethene (PCE or perc) and its degraded products were previously discovered.

NSB11 – to confirm the concentrations of contamination in close proximity to the drycleaning machine where drycleaning solvent, tetrachloroethene (PCE or perc) and its degraded products were previously discovered.

NSB12 – to delineate the potential contamination plume to the northeast inside the building.

Soil boring locations illustrated in Figure 3, were designed to provide adequate coverage for the potentially contaminated areas to ensure that the source and extent of VOC contamination are properly investigated, and the contamination plume is reasonably defined, and the natural and/or potential man-made pathways, which mainly consist of the current and/or former underground utilities conduits and sanitary/storm sewer pipes, are adequately investigated in the study.

Soil sample collection locations were reviewed with the property owners or tenants prior to subsurface activities to determine the location of private utilities and other obstructions. A one call service for utilities location was contacted in order to mark all the utility lines at and along adjoining streets at the site. Utility line placement information has been added to appropriate maps (see Figure 1a, Site Utility Line Location Map). Soil sample locations may have been moved during the soil boring process from the initially planned locations due to various conditions, including but not limited to underground utility lines, surface structures, and/or subsurface refusal encountered while drilling.

#### 4.2.2 Monitoring Well Locations

Monitoring wells were placed at and around the Westwood site in an attempt to determine the groundwater contamination degree and extent. The wells were designed as follows:

MW5 and MW6: They were placed in the source area to assess the concentrations of cVOCs in source area in the subsurface glacial till formation.

MW1: It was placed to the west of the source area to assess the degree and extent of cVOCs in subsurface glacial till formation to the west.

MW2: It was placed to the south of the source area to assess the degree and extent of cVOCs in subsurface glacial till formation to the south.

MW3: It was placed to the east of the source area in the adjoining restaurant property to assess the degree and extent of cVOCs in subsurface glacial till formation to the east.

MW4: It was placed to the north of the source area to assess the degree and extent of cVOCs in subsurface glacial till formation to the north.

The locations of monitoring wells were slightly adjusted during the field installation to accommodate the surface conditions.

#### ***4.2.3 Sub-slab Vapor Port Locations***

Figure 5b is the diagram that illustrates the sub-slab vapor sampling. The sub-slab soil vapor sampling locations are illustrated in Figure 5, Sub-slab Vapor cVOC Distribution Map.

The locations of the sub-slab vapor sampling ports are determined as such:

SV1, SV2, and SV5: They were placed in the adjoining restaurant property to assess the degree and extent of cVOCs under the concrete floor to the east. The location of the sampling port was moved slightly to avoid damaging to the new granite floor installed in the main dining hall area. SV1 and SV5 were moved to corners where the sampling ports could be hidden from the public, while SV2 was placed in the narrow partial basement section.

SV3: It was placed in the source area to assess the concentrations of cVOCs in source under the concrete floor.

SV4: It was placed in the adjoining hair cutters store to assess the degree and extent of cVOCs under the concrete floor to the west. The location of the sampling port was moved slightly to the south to avoid damaging to the new hardwood floor installed in the main salon area. It was moved to a corner where the sampling port could be hidden from the public

### **4.3 Initial Site Investigation Sampling Results**

#### ***4.3.1 Initial Site Investigation Soil Sampling Results***

On September 16, 2018, HDC, Inc. crew members used a GeoProbe system to collect soil samples (NSB1-NSB12) from in and around the subject property.

A total of 36 representative soil samples (3 samples from each boring) were collected and analyzed for VOCs in accordance with USEPA Publication SW-846, Method 5035/8260. The soil analytical results obtained are tabulated in Table 1. Sample Chain-of-Custody and Laboratory Analytical Results are located in Appendix VI. Please note that only the Contaminants of Concern (COC) identified in the previous sections are listed in the table. The soil COC distribution is illustrated in Figure 3. The previous soil sampling results collected in 2008 were also included in this report. When compared to the NR 720 Residual Contaminant



Levels (RCL), the following compounds are present in the soil samples as our contaminants of concern. Please note that only the cVOCs with elevated concentrations are listed in the table.

**Tetrachloroethene (PCE):** up to 320 mg/Kg of PCE was detected from various borings. The concentrations exceeded the Soil to Groundwater Pathway RCL (0.0045 mg/kg) and Direct Contact (30.7 mg/kg) for non-industrial properties.

**Trichloroethene (TCE):** up to 3.97 mg/Kg of TCE was detected from various borings. The concentrations exceeded the Soil to Groundwater Pathway RCL (0.0036 mg/kg) and Direct Contact (1.26 mg/kg) for non-industrial properties.

The soil sampling results confirmed that the soil to ground pathway RCL and soil direct contact pathway RCL have been exceeded at this site.

The contaminants are distributed from the surface (1') to the depth of 8' near the source areas around the drycleaning machine. Minor PCE contamination was detected at 16' in NSB2 (0.038 mg/kg) and NSB1 (0.017 mg/kg) which are away from the source areas.

#### ***4.3.2 Initial Site Investigation Groundwater Monitoring/Sampling Results - First (1<sup>st</sup>) Quarter***

On September 19, 2018, HDC, Inc. crew members collected ground water samples (MW1-MW6) from in and around the subject property.

A total of 8 groundwater samples, including 1 duplicate and 1 trip blank, were analyzed for VOCs in accordance with USEPA Publication SW-846, Method 5035/8260B. The groundwater analytical results obtained are tabulated in Table 2. Sample Chain-of-Custody and Laboratory Analytical Results are located in Appendix VI. The groundwater COC distribution in the wells is illustrated in Figure 4. By comparing to the Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard and Chapter NR 140 Preventive Action Limits, the following compounds are deemed as the contaminants of concern based on the groundwater sampling results.

**Tetrachloroethene (PCE):** up to 160 µg/L of PCE was detected from various wells, which exceeded the groundwater Enforcement Standard (5 µg/l) and Preventive Action Limit as defined in the NR 140.

**Trichloroethene (TCE):** up to 70 µg/L of TCE was detected from various wells, which exceeded the groundwater Enforcement Standard (5 µg/l) and Preventive Action Limit as defined in the NR 140.

**Cis-1,2-Dichloroethene (cDCE):** up to 26 µg/L of DCE was detected from various wells, which exceeded the Preventive Action Limit as defined in the NR 140.





**Vinyl Chloride (VC):** up to 38  $\mu\text{g/L}$  of VC was detected from various wells, which exceeded the groundwater Enforcement Standard (0.2  $\mu\text{g/l}$ ) and Preventive Action Limit as defined in the NR 140.

The groundwater sampling results confirmed that the groundwater quality have been impacted by the released PCE and its degraded compounds of TCE and VC at this site.

No contaminant was found in MW1 or its duplicated sample, MW1-D. No contaminant was detected in the trip blank sample, MW-TB, either.

### ***4.3.3 Initial Site Investigation Vapor Sampling Results***

On September 16, 2018 and September 19, 2018, HDC, Inc. crew members collected soil vapor samples (SV1 - SV5) from in and around the subject property.

A total of 6 sub-slab vapor samples, including 1 duplicate (SV3-D), were collected and analyzed for VOCs using US EPA Method TO-15, in accordance with RR-800, "Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin" procedures. The vapor analytical results obtained are tabulated in Table 3. Sample Chain-of-Custody and Laboratory Analytical Results are located in Appendix VI. Please note that only the Contaminants of Concern (COC) with elevated concentrations are listed in the table. The sub-slab vapor COC distribution is illustrated in Figure 5. HDC compared the analytical results to the US EPA's Indoor Air Vapor Action Levels (VAL) and Sub-Slab Vapor Risk Screening Levels (VRSL), and the following exceedances were present.

**Tetrachloroethene (PCE):** up to 1.2  $\text{mg/m}^3$  of PCE was detected from various vapor sampling ports, exceeding both the residential and commercial Indoor Air Vapor Action Levels. However, they are all below the VRSL which is applicable to the sub-slab samples in our case.

**Trichloroethene (TCE):** up to 0.0042  $\text{mg/m}^3$  of TCE remain at various sampling ports with concentrations exceeding residential Indoor Air Vapor Action Levels. However, they are all below the VRSL which is applicable to the sub-slab samples in our case.

The sub-slab sampling results confirmed that the sub-slab Vapor Risk Screening Levels have not been exceeded at this site, although 1.2  $\text{mg/m}^3$  of PCE was detected under the concrete floor in the neighboring restaurant's partial basement.

As part of the quality control, isopropyl alcohol that was spread on the paper towels covering the sampling train during the vapor sampling was also analyzed with the samples. No abnormally high concentration of isopropyl alcohol was found in the analytical results. Therefore, the quality of the soil gas samples is reliable.

**4.4 Site-Specific Condition Assessment**

**4.4.1 Site Geology and Hydrogeology**

The site is located on glacial till with 50 to 100 ft. deep clayey glacial deposits below the ground surface. Soils encountered at this site are predominantly clay to silty clay with some isolated sandy lenses from the surface down to the end of the borings at 16’ depth. Bedrock was not encountered in any of the soil borings.

Groundwater table was encountered in the subsurface soil from about 8’ to about 10’ below the ground surface. The groundwater table hydrogeology, flow direction, gradient, and hydraulic conductivity are assessed as follow.

**4.4.2 Groundwater Flow Direction**

Prior to any groundwater disturbance, on September 19, 2018, we conducted a water-table survey for the monitoring wells MW1 through MW6. The top of the well casing of monitoring well MW6 was chosen as a survey reference point and assumed to be 100.00 feet site datum elevation. The relative elevation of the top of well casing for each well was then determined by level shooting and the distances between wells were directly measured using a wheel measure. The relative water-table elevation survey data can be summarized in Table 4.

A water table contour map for the relative water-table elevations is constructed as shown in Figure 4b. Groundwater flow trend is generally to the west or southwest at this site. It may discharge to the Menomonee River basin located approximately 1,600’ southwest of the site. According to Google Earth map, the water surface elevation at the Menomonee River is about 40’ below the water table found at Westwood Cleaners site.

**Table 4 Relative Water Table Elevations – September 19, 2018**

Well Number	Relative Elevation of the Top of Casing	Water Depth(ft.)	Water Table Elevation (ft.)
MW1	98.49	8.72	89.77
MW2	99.12	8.97	90.15
MW3	100.76	10.23	90.53
MW4	98.88	8.44	90.44
MW5	99.95	9.61	90.34
MW6	100	9.76	90.24

**4.4.3 Groundwater Table Gradient**

Based on this water table contour map acquired on September 19, 2018, the hydraulic gradient (i) can be obtained as follows:



Hydraulic head drop from **MW3** to **MW1** along the groundwater flow direction is  $90.53' - 89.77' = 0.76$  feet. The distance between these two wells is 130', as measured parallel to the groundwater flow direction.

Therefore, the hydraulic gradient ( $i$ ) =  $0.76/130 = 0.00585$  ft/ft.

According to the above discussions, the groundwater present beneath the subject property would flow southwesterly, with a hydraulic gradient of 0.00585 ft./ft., or 0.585%.

This groundwater table slope is reasonable based on the local topography.

#### **4.4.4 Determination of Hydraulic Conductivity**

On September 19, 2018, we conducted a slug test in one of the monitoring wells, MW1, which is a 2"- diameter well installed with 4.5"-diameter augers. The initial water table depth was recorded, and then a pressure transducer connected to a computer was lowered in the bottom of the well. Upon equilibrium of the water table as monitored in the computer screen with a software provided by Solinst, a long PVC bailer (slug) is slowly submerged in the well water. Upon reaching equilibrium of the water table, the bailer (slug) is quickly removed from inside the well. The water table inside the well then kept rising (recovery). The drawdown ( $y_t$ ) vs. the time elapsed ( $T_t$ ) was continuously recorded in the field using the data logger until sufficient data points are obtained or the water table is fully recovered. The following are parameters used:

##### **MW1:**

Static depth to the water table: 8.721 feet.

Total volume of water removed:  $R_c^2 \times 3.14 \times 0.8838$  ft. = 0.019 cubic feet.

Initial drawdown: 0.8838 feet (0.269 m).

Since the rate at which the water level rises is primarily controlled by the formation's transmissivity or conductivity, the hydraulic conductivity can be obtained by plotting the above data using commercial computer software named "*Super Slug*" acquired from Scientific Software Group. The hydraulic conductivity interpretation was displayed in Appendix II, which is obtained using the Bouwer and Rice theory. The following input data were used to obtain the hydraulic conductivity:

$R_w = 0.05625$  meter (4.5"), representing radius of borehole, or radial distance of undisturbed portion of aquifer from centerline of borehole.

$R_c = 0.025$  meter, representing radius of well casing.

$L_w = 1.912$  m, representing length between the initial water table to the bottom of well.

$L_e = 1.912$  m, representing length of screened, perforated or open section of well.

H = 10 m, initial aquifer thickness, representing length between the initial water table to the bottom of aquifer. Ten meters are assumed that can provide sufficient accuracy.

The hydraulic conductivity from the slug test for the water-bearing unit is listed in Table 5.

**Table 5 Hydraulic Conductivity from Slug Test**

Well Tested	Hydraulic Conductivity	
Units	(cm/sec)	(cm/day)
MW3	$1.39 \times 10^{-2}$	1202

The hydraulic conductivity of  $1.39 \times 10^{-2}$  cm/sec may be too high and not representative to this site conditions since clay or silty clay is the predominant formation encountered in the borings at this site. The slug test results may have been distorted by the local sandy/gravelly lenses present in the soil boring (NSB1) at MW1.

#### 4.4.5 Determination of Site-Specific Fractional Organic Carbon ( $f_{oc}$ )

Soil samples were collected from the potentially uncontaminated soil for testing of total organic carbon (TOC), or organic matter, which then converted to fractional organic carbon ( $f_{oc}$ ), with ASTM Method D2974-00. Fractional organic carbon can effectively attenuate the released cVOCs and change the soil-water participation coefficient. The test results are listed in following Table 6.

**Table 6 Fractional Organic Content**

Sample ID	Depth (ft.)	TOC (wt.%)	$f_{oc}$ (wt.%)
NSB4-A	2'	2.99	1.73
NSB4-B	8'	4.62	2.8
Value used			1.73

The TOC results are converted into  $f_{oc}$  by a factor of 0.58. Since the  $f_{oc}$  at NSB4-B is much higher than at NSB4-A, to be conservative, we selected 1.73% by wt. as representative of the local soil organic carbon content.

Soil samples at NSB4-A and NSB4-B were also analyzed for VOCs. No contamination was found in the soil, and so the fractional organic carbon results are valid for using as retardant to the cVOCs released from this site. This high  $f_{oc}$  implies that high absorption capacity to the contaminants is present in the soil. Biodegradation may have been present to break down the PCE to cDCE, TCE, VC, and final non-toxic compounds, due to the high fractional organic carbons in the soil.



## 4.5 Quarterly Monitoring/Sampling Results

### 4.5.1 Groundwater Monitoring Sampling Results - Second (2<sup>nd</sup>) Quarter

On December 18, 2018, Hydrodynamics Consultants, Inc. (HDC) crew members performed the 2<sup>nd</sup> round of ground water sampling from monitoring wells, MW1 to MW6. Please refer to the attached site map (Figure 2) for sampling locations.

A total of 8 groundwater samples, including 1 duplicate from MW6 and 1 trip blank, were analyzed for VOCs in accordance with USEPA Publication SW-846, Method 5035/8260B. The groundwater analytical results obtained are tabulated in Table 2. The groundwater COC distribution in the wells is illustrated in Figure 4. By comparing to the Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard and Chapter NR 140 Preventive Action Limits, the following compounds are deemed as the contaminants of concern based on the groundwater sampling results.

**Tetrachloroethene (PCE):** up to 69 µg/L (78 µg/L in MW6-2D) of PCE was detected from various wells, which exceeded the groundwater Enforcement Standard (5 µg/l) and Preventive Action Limit as defined in the NR 140.

**Trichloroethene (TCE):** up to 140 µg/L of TCE was detected from various wells, which exceeded the groundwater Enforcement Standard (5 µg/l) and Preventive Action Limit as defined in the NR 140.

**Cis-1,2-Dichloroethene (cDCE):** up to 29 µg/L of DCE was detected from various wells, which exceeded the Preventive Action Limit as defined in the NR 140.

**Vinyl Chloride (VC):** up to 25 µg/L of VC was detected from various wells, which exceeded the groundwater Enforcement Standard (0.2 µg/l) and Preventive Action Limit as defined in the NR 140.

The groundwater sampling results confirmed that the groundwater quality have been impacted by the released PCE and its degraded compounds of TCE, cDCE, and VC at this site.

No contaminant was found in MW1, MW3, or MW4. In addition, no contaminant was detected in the trip blank sample, MW-TB.

The duplicated sample from monitoring well MW6 (MW6-2D) contained similar concentrations of PCE, TCE, cDCE, and VC which confirmed the sampling and analysis process is accurate and reliable.

Bromodichloromethane (1.4 µg/L) and chloroform (1.3 µg/L) were also detected in samples collected in MW2 with concentrations exceeding the Enforcement Standard and/or Preventive Action Limits as shown in Chapter NR 140. However, these two chemicals may not come from



the drycleaning operation since only tetrachloroethene (PCE) has been used by Westwood Cleaners. Based on our research on the internet, bromodichloromethane is mainly from fire extinguishing agent or water disinfection by chlorination, while the chloroform is mainly from precursors for manufacturing refrigerants or polytetrafluoroethylene (PTFE, or Teflon). Therefore, they may come from other unknown contamination sources, which are not contaminants of concern for this site.

#### ***4.5.2 Groundwater Monitoring Sampling Results - Third (3<sup>rd</sup>) Quarter***

On March 8, 2019, Hydrodynamics Consultants, Inc. (HDC) crew members performed the 3<sup>rd</sup> ground water sampling from monitoring wells, MW1 to MW6. Please refer to the attached site map (Figure 2) for sampling locations.

A total of 8 groundwater samples, including 1 duplicate from MW5 and 1 trip blank, were analyzed for VOCs in accordance with USEPA Publication SW-846, Method 5035/8260B. The groundwater analytical results obtained are tabulated in Table 2. The groundwater COC distribution in the wells is illustrated in Figure 4. By comparing to the Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard and Chapter NR 140 Preventive Action Limits, the following compounds are deemed as the contaminants of concern based on the groundwater sampling results.

**Tetrachloroethene (PCE):** up to 370 µg/L of PCE was detected from various wells, which exceeded the groundwater Enforcement Standard (5 µg/l) and Preventive Action Limit as defined in the NR 140.

**Trichloroethene (TCE):** up to 75 µg/L of TCE was detected from various wells, which exceeded the groundwater Enforcement Standard (5 µg/l) and Preventive Action Limit as defined in the NR 140.

**Cis-1,2-Dichloroethene (cDCE):** up to 15 µg/L of DCE was detected from various wells, which exceeded the Preventive Action Limit as defined in the NR 140.

**Vinyl Chloride (VC):** up to 12 µg/L of VC was detected from various wells, which exceeded the groundwater Enforcement Standard (0.2 µg/l) and Preventive Action Limit as defined in the NR 140.

The groundwater sampling results confirmed that the groundwater quality have been impacted by the released PCE and its degraded compounds of TCE, cDCE, and VC at this site.

No contaminant was found in MW1, MW2, MW3, or MW4. In addition, no contaminant was detected in the trip blank sample, MW-TB.



The duplicated sample from monitoring well MW5 (MW5-3D) contained similar concentrations of PCE, TCE, cDCE, and VC which confirmed the sampling and analysis process is accurate and reliable.

### ***4.5.3 Groundwater Monitoring Sampling Results - Fourth (4<sup>th</sup>) Quarter***

On July 13, 2019, Hydrodynamics Consultants, Inc. (HDC) crew members performed the 4<sup>th</sup> round of water sampling from monitoring wells, MW1 to MW6. Please refer to the attached site map (Figure 2) for sampling locations.

A total of 8 groundwater samples, including 1 duplicate from MW2 and 1 trip blank, were analyzed for VOCs in accordance with USEPA Publication SW-846, Method 5035/8260B. The groundwater analytical results obtained are tabulated in Table 2. The groundwater COC distribution in the wells is illustrated in Figure 4. By comparing to the Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard and Chapter NR 140 Preventive Action Limits, the following compounds are deemed as the contaminants of concern based on the groundwater sampling results.

**Tetrachloroethene (PCE):** up to 4300 µg/L of PCE was detected from various wells, which exceeded the groundwater Enforcement Standard (5 µg/l) and Preventive Action Limit as defined in the NR 140.

**Trichloroethene (TCE):** up to 120 µg/L of TCE was detected from various wells, which exceeded the groundwater Enforcement Standard (5 µg/l) and Preventive Action Limit as defined in the NR 140.

**Cis-1,2-Dichloroethene (cDCE):** up to 23 µg/L of DCE was detected from various wells, which exceeded the Preventive Action Limit as defined in the NR 140.

**Vinyl Chloride (VC):** up to 20 µg/L of VC was detected from various wells, which exceeded the groundwater Enforcement Standard (0.2 µg/l) and Preventive Action Limit as defined in the NR 140.

The groundwater sampling results confirmed that the groundwater quality have been impacted by the released PCE and its degraded compounds of TCE, cDCE, and VC at this site.

No contaminant was found in MW1, MW2, MW3, or MW4. In addition, no contaminant was detected in the trip blank sample, MW-TB.

The duplicated sample from monitoring well MW2 (MW2-4D) contained identical concentrations of PCE, TCE, cDCE, and VC which confirmed the sampling and analysis process is accurate and reliable.



**4.6 Groundwater Table Elevation Monitoring Results**

Prior to any groundwater disturbance, HDC conducted a water-table survey for monitoring wells MW1 through MW6 at every quarterly sampling event. The top of the well casing of monitoring well MW6 was chosen as a survey reference point and assumed to be 100.00 feet site datum elevation. The relative elevation of the top of well casing for each well was then determined by level shooting and the distances between wells were directly measured using a wheel measure. The relative water-table elevation survey data can be summarized in Table 7.

A water table contour map, established on September 19, 2018 for the initial site investigation, for the relative water-table elevations is constructed as shown in Figure 4b. All subsequent quarterly relative water-table elevations follow the same trend as shown in the previous quarterly reports. The groundwater flow trend is generally to the west with a converging factor toward MW5 and MW6 at this site. Groundwater from this site may discharge to the Menomonee River basin located approximately 1,600’ southwest of the site. According to a Google Earth map, the water surface elevation at the Menomonee River is about 40’ below the water table found at Westwood Cleaners site.

This groundwater table slope coincides with the local topography.

**Table 7 Relative Water Table Elevations – First Quarterly Monitoring**

Well Number	Relative Elevation of the Top of Casing	Water Depth (ft.) 9/19/18	Water Table Elevation (ft.) 9/19/18	Water Depth (ft.) 12/18/18	Water Table Elevation (ft.) 12/18/18	Water Depth (ft.) 3/8/19	Water Table Elevation (ft.) 3/8/19	Water Depth (ft.) 7/13/19	Water Table Elevation (ft.) 7/13/19
MW1	98.49	8.72	89.77	9.55	88.94	9.22	89.27	9.35	89.14
MW2	99.12	8.97	90.15	8.35	90.77	8.01	91.11	8.15	90.97
MW3	100.76	10.23	90.53	10.06	90.7	9.75	91.01	9.65	91.11
MW4	98.88	8.44	90.44	8.15	90.73	7.81	91.07	7.9	90.98
MW5	99.95	9.61	90.34	9.89	90.06	9.55	90.4	9.85	90.1
MW6	100	9.76	90.24	9.89	90.11	9.54	90.46	9.75	90.25

Note: The top of casing at MW6 is used as 100.00 reference datum.





## 5.0 ADDITIONAL SITE INVESTIGATION AND SECOND QUARTERLY MONITORING/SAMPLING PROGRAM

The objective of the additional site investigation and second quarterly monitoring is to further assess the extent and degree of potential contaminations in the soil, soil vapor, and groundwater.

On July 28, 2020, HDC, Inc. crew members used a GeoProbe system to collect soil samples (NSB13-NSB15) from in and around the subject property. The three new soils borings were converted into 3 groundwater monitoring wells (MW7, MW8, and MW9). Groundwater samples were collected from MW1 to MW6 on July 28, 2020, and from MW7 to MW9 on August 10, 2020. Furthermore, 2 additional soil vapor ports (SV6 and SV7) were installed and sampled on July 28, 2020. Please refer to the attached site map (Figure 2) for sampling locations.

### 5.1 Additional Site Investigation Outline

To satisfy the requirements of the WDNR and the approved ASIWP, HDC proposed and conducted the following:

- Contacted the diggers hotline to request the public utility companies to mark all their utility lines at and around the property, including the property to the east and the surrounding public right of ways;
- Mobilized crews for drilling, sampling, and testing to the project site to conduct the field work.
- Completed 3 additional soil borings (NSB13, NSB14, NSB15) to a depth of 16 feet (each) below the ground surface. Each boring was logged in accordance with the Unified Soil Classification System ("USCS") to document the subsurface strata, variation of soil color, compositions and visual evidence of drycleaning solvent contamination.
- Retrieved soil cores from each of the above soil borings, and collected soil samples at 2'-intervals for screening with a photo-ionization detector (PID) for VOC concentrations.
- Selected 9 representative soil samples, three from each new soil boring, for laboratory analysis of VOCs. Each soil sample was collected in accordance with US EPA SW-846 Method 5035 using a purge-and-trap soil sampler. A bulk soil sample was also packed into a 4-ounce glass jar for the determination of the sample's dry weight. All soil samples submitted were analyzed for volatile organic compounds (VOCs) utilizing US EPA SW-846 Method 8260B.
- Converted the 3 new soil borings into 3 groundwater monitoring wells (MW7, MW8, and MW9), to a depth of 15 feet below ground surface, which is more than five feet below the water table. Each well was completed with a 10'-long 1"-diameter PVC screen in the

bottom and a 5'-long case above. These wells were installed inside 2"-diameter borings drilled with the GeoProbe. The well annular space was packed with coarse silica sand from the bottom to about 1' above the screen section. A fine sand pack filter (about 2' thick) was added above the coarse sand pack, and then the annular space was sealed with bentonite to near the surface. The monitoring wells were flush-mounted with steel manholes cemented at the ground surface. Upon completion, all wells were developed.

- Performed four quarterly groundwater monitoring and sampling events. Eleven (11) representative groundwater samples were submitted for laboratory analysis (9 samples from the 9 monitoring wells, 1 for duplicate, and 1 for trip bank). The groundwater samples were collected using a PVC bailer designated to each well and immediately preserved in 4-ml glass vials containing HCl. The groundwater samples submitted were analyzed for VOCs utilizing US EPA SW-846 Method 8260B. Proper well development/purging was completed before the sampling.
- Completed the 4 rounds of water table depth measurement from the monitoring wells and surveyed the ground surface to determine the groundwater table slope or flow directions.
- Installed 2 additional soil vapor ports (SV6 and SV7) in designated locations.
- Performed the 4 quarterly soil vapor monitoring and sampling events. Eight (8) representative soil vapor samples (7 from all the soil vapor sampling ports and one duplicate from the source areas) inside the subject building and the adjoining building to the east to determine were completed. Six-liter Summa canisters were used for the soil vapor collection. RR-800, "Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin" procedures were followed.
- Prepared an Additional Site Investigation Report. Remedial goals will be established and options for remedial actions will be evaluated in accordance with Wis. Admin. Code § NR 722 after all quarterly monitoring is completed.

The locations of the new borings/monitoring wells and soil vapor sampling ports are illustrated in Figure 2. The soil cVOC concentrations and distributions are illustrated in Figures 3 and 3a, the groundwater analytical results are illustrated in Figure 4 and 4a, while the soil vapor sampling results are provided in Figures 5 and 5a.

## **5.2 Selection of Additional Soil Boring, Ground Water Well, and Sub-slab Vapor Port Locations**

### ***5.2.1 Additional Soil Boring/Monitoring Well Locations***

The locations for the additional soil borings and wells are based on the previous sampling results as shown in the above sections. According to HDC's additional site investigation plan approved by the WDNR, the new borings/monitoring wells have been strategically placed as follows:



NSB13/MW7: It was designed and installed to delineate the potential cVOC contamination plume to the south in the public alley.

NSB14/MW8: It was designed and installed to delineate the potential cVOC contamination plume to the southwest in the public alley.

NSB15/MW9: It was designed and installed to delineate the potential cVOC contamination plume to the southwest in the parking lot within the property line.

Soil boring locations illustrated in Figure 3, were designed to provide adequate coverage of the potentially contaminated areas to ensure that the source and extent of VOC contamination is properly investigated, and the contamination plume is reasonably defined, and the natural and/or potential man-made pathways, which mainly consist of the current and/or former underground utilities conduits and sanitary/storm sewer pipes, are adequately investigated in the study.

Soil sample collection locations were reviewed with the property owners or tenants prior to subsurface activities to determine the location of private utilities and other obstructions. A one-call service for locating utilities was contacted in order to mark all the utility lines at and along adjoining streets at the site. Utility line placement information has been added to appropriate maps (see Figure 1a, Site Utility Line Location Map). Soil sample locations may have been moved around during the soil boring process from the initially planned locations due to various conditions, including but not limited to underground utility lines, surface structures, and/or subsurface refusal encountered while drilling.

### ***5.2.2 Additional Sub-Slab Soil Gas/Vapor Sampling Locations***

Sub-Slab Soil Gas/Vapor sampling ports were placed at and around the Westwood site in an attempt to assess the indoor sub-slab vapor quality.

Prior and additional sub-slab soil vapor sampling locations are illustrated in Figure 5, Sub-slab Vapor cVOC Distribution Map.

The locations of the new sub-slab vapor sampling ports were determined as such:

SV6: It was placed in the restroom near a sanitary sewer service line to assess the concentrations of cVOCs along the sewer line under the concrete floor.

SV7: It was placed in the source area to assess the concentrations of cVOCs under the concrete floor.



## 5.3 Additional Site Investigation and Sampling Results

### 5.3.1 Soil Sampling Results

A total of 9 additional soil samples (3 samples from each boring) were collected and analyzed for VOCs in accordance with US EPA Publication SW-846, Method 5035/8260. The soil analytical results obtained are tabulated in Table 1. Sample Chain-of-Custody and Laboratory Analytical Results are located in Appendix VI. The cVOC concentrations in all of the 9 soil samples are below the NR 720 Residual Contaminant Levels (RCL). So, soil contaminant exceedance was not detected in samples NSB13, NSB14, and NSB15.

Based on the previous and the additional soil sampling results, the soil COC distribution at this site is illustrated in Figure 3. When compared to the NR 720 Residual Contaminant Levels (RCL), the following compounds are present in the soil samples as our contaminants of concern. Please note that only the cVOCs with elevated concentrations are listed below.

**Tetrachloroethene (PCE):** up to 320,000 µg/Kg of PCE was detected from various borings. The concentrations exceeded the Soil to Groundwater Pathway RCL (4.5 µg/Kg) and Direct Contact (30,700 µg/Kg) for non-industrial properties.

**Trichloroethene (TCE):** up to 3,970 µg/Kg of TCE was detected from various borings. The concentrations exceeded the Soil to Groundwater Pathway RCL (3.6 µg/Kg) and Direct Contact (1,260 µg/Kg) for non-industrial properties.

The soil sampling results confirmed that the soil to groundwater pathway Residual Contaminant Level (RCL) and soil direct contact pathway RCL have been exceeded at this site.

The contaminants are distributed from the surface (1') to a depth of 8' near the source areas around the drycleaning machine. Minor PCE contamination was detected at 16' in NSB2 (38 µg/Kg) and NSB1 (17 µg/Kg) which are away from the source areas.

The soil cVOC distributions were illustrated in Figures 3 (horizontal distribution) and 3a (cross section). The soil cVOC iso-concentration map for Soil Direct Contact and Soil to Groundwater is also illustrated in Figure 3.

### 5.3.2 Groundwater Monitoring Sampling Results - First (1<sup>st</sup>) Quarter

A total of 11 new groundwater samples, including 1 duplicate and 1 trip blank, were analyzed for VOCs in accordance with US EPA Publication SW-846, Method 5035/8260B. The groundwater analytical results obtained are tabulated in Table 2. The groundwater COC distribution in the wells is illustrated in Figure 4. Sample Chain-of-Custody and Laboratory Analytical Results are located in Appendix VI. When compared to the Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard and Chapter NR 140 Preventive Action Limits (PALs), the following



compounds are deemed as the contaminants of concern based on the new groundwater sampling results (1<sup>st</sup> quarter, 1/4).

**Tetrachloroethene (PCE):** up to 1,700 µg/L of PCE was detected from MW2, MW5, MW6, and MW8 with concentrations exceeded the groundwater Enforcement Standard (5 µg/L) and Preventive Action Limit as defined in the NR 140.

**Trichloroethene (TCE):** up to 120 µg/L of TCE was detected from MW2, MW5, and MW6 with concentrations exceeded the groundwater Enforcement Standard (5 µg/L) and Preventive Action Limit as defined in the NR 140.

**Cis-1,2-Dichloroethene (cDCE):** up to 23 µg/L of cDCE was detected from MW2, MW5, MW6, and MW8 with concentrations exceeded the Preventive Action Limit (7 µg/L) as defined in the NR 140.

**Vinyl Chloride (VC):** up to 6.1 µg/L of VC was detected from MW6, which exceeded the groundwater Enforcement Standard (0.2 µg/L) and Preventive Action Limit as defined in the NR 140.

No contaminant was found in MW1, MW3, MW4, MW7 or its duplicated sample MW7-D, and MW9. No contaminant was detected in the trip blank sample either.

The groundwater sampling results confirmed that the groundwater quality have been impacted by the released PCE and its degraded compounds of TCE, cDCE, and VC at this site. The groundwater cVOC plume is illustrated in Figures 4 (horizontal distribution) and 4a (cross section).

### ***5.3.3 Vapor Monitoring Sampling Results - First (1<sup>st</sup>) Quarter***

Based on existing soil VOC results, HDC proposed and collected soil vapor samples from 7 vapor ports (existing SV1 to SV5, and new SV6 and SV7, in Figure 5) in the subject property and the adjoining restaurant to the east and the hair salon to the west. HDC has provided a map which shows a 100-foot radius from the soil contamination plume (Please see Figure 1, Site Vicinity Map).

A total of 8 sub-slab vapor samples, including 1 duplicate (SV7-D), were collected and analyzed for VOCs using US EPA Method TO-15, in accordance with RR-800, "Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin" procedures. The vapor analytical results obtained are tabulated in Table 3. Sample Chain-of-Custody and Laboratory Analytical Results are located in Appendix VI. The sub-slab vapor COC distribution is illustrated in Figure 5. HDC compared the analytical results to the US EPA's Indoor Air Vapor Action Levels (VAL) and Sub-Slab Vapor Risk Screening Levels (VRSL), and the following exceedances were present.



**Tetrachloroethene (PCE):** up to 38,000  $\mu\text{g}/\text{m}^3$  of PCE was detected from vapor sampling port SV7, exceeding both the residential and commercial Indoor Air Vapor Action Levels, and both the residential and commercial Vapor Risk Screening Levels (VRSL). The VRSL of 6,000  $\mu\text{g}/\text{m}^3$  for PCE is applicable for this site.

**Trichloroethene (TCE):** up to 630  $\mu\text{g}/\text{m}^3$  of TCE was found from vapor sampling port SV7 with concentration exceeding both the residential and commercial Indoor Air Vapor Action Levels, and both the residential and commercial Vapor Risk Screening Levels (VRSL). The VRSL of 290  $\mu\text{g}/\text{m}^3$  for TCE is applicable for this site.

The sub-slab vapor sampling results confirmed that the sub-slab Vapor Risk Screening Levels have been exceeded at this site in the source areas. The soil vapor cVOC plume is illustrated in Figure 5 (horizontal distribution), while the vertical soil vapor cVOC distribution is shown in Figure 5a.

As part of the soil vapor monitoring process, HDC checked VOC concentrations in manholes at and around the property. The sanitary and storm manholes located in the parking lots and public right of ways around the property were checked with a photo-ionization detector (PID) which is calibrated with 100 ppm equivalent of isobutylene. Floor drains in the building in Westwood Cleaners and Super Cuts, as well as in the neighboring restaurant were also checked with the PID for VOCs. The air in the manholes and drains was measured by inserting the tip of the PID into the manholes and drains and waiting for the VOC readings. Based on our field measurements, no detectable VOC was found.

## 5.4 Site-Specific Condition Assessment

### 5.4.1 Site Geology and Hydrogeology

The site is located on glacial till with 50 to 100 ft. deep clayey glacial deposits below the ground surface. Soils encountered at this site are predominantly clay to silty clay with some isolated sandy lenses from the surface down to the end of the borings at 16' depth. Bedrock was not encountered in any of the soil borings.

Groundwater table was encountered in the subsurface soil from about 8' to about 10' below the ground surface. The groundwater table hydrogeology, flow direction, gradient, and hydraulic conductivity are assessed as follow.

### 5.4.2 Groundwater Flow Direction

Prior to any groundwater disturbance, on August 10, 2020, we conducted a water-table survey for monitoring wells MW1 through MW9. The top of the well casing of monitoring well MW6 was chosen as a survey reference point and assumed to be 100.00 feet site datum elevation. The relative elevation of the top of well casing for each well was then determined by level shooting,

and the distances between wells were directly measured using a wheel measure. The relative water-table elevation survey data can be summarized in Table 8.

A water table contour map for the relative water-table elevations is constructed as shown in Figure 4c. Groundwater flow trend is generally to the southwest at this site. It may discharge to the Menomonee River basin located approximately 1,600’ southwest of the site. According to Google Earth map, the water surface elevation at the Menomonee River is about 40’ below the water table found at Westwood Cleaners site.

**Table 8 Relative Water Table Elevations – August 10, 2020**

Well Number	Relative Elevation of the Top of Casing	Water Depth(ft.)	Water Table Elevation (ft.)
MW1	98.49	10.12	88.37
MW2	99.12	9.6	89.52
MW3	100.76	9.75	91.01
MW4	98.88	8.95	89.93
MW5	99.95	9.42	90.53
MW6	100	9.68	90.32
MW7	98.85	9.72	89.13
MW8	98.48	9.52	88.96
MW9	98.2	9.59	88.61

**5.4.3 Groundwater Table Gradient**

Based on this water table contour map acquired on August 10, 2020, the highest hydraulic gradient (i) drop on site can be obtained as follows:

Hydraulic head drop from **MW3** to **MW1** along the groundwater flow direction is 91.01’ – 88.37’ = 2.64 feet. The distance between these two wells is 130’, as measured parallel to the groundwater flow direction.

Therefore, the hydraulic gradient (i) = 2.64/130 = 0.02 ft/ft.

According to the above discussions, the groundwater present beneath the subject property would flow southwesterly, with a hydraulic gradient of 0.02 ft./ft., or 2%.

**5.4.4 Determination of Hydraulic Conductivity**

HDC used the same Hydraulic Conductivity as established during the Site Investigation. See Section 4.4.4 of this report.

**5.4.5 Determination of Site-Specific Fractional Organic Carbon (*f<sub>oc</sub>*)**



HDC used the same Site-Specific Fractional Organic Carbon (foc) as established during the Site Investigation. See Section 4.4.5 of this report.

## 5.5 Quarterly Monitoring/Sampling Results - Second (2<sup>nd</sup>) Quarter

On December 8, 2020, HDC preformed the 2<sup>nd</sup> quarterly sampling at the subject property. The second quarterly sampling event included collecting samples from all the existing monitoring wells (MW1 to MW9) and sub-slab vapor sampling ports (SV1 to SV7).

### 5.5.1 Quarterly Groundwater Monitoring/Sampling Results - 2<sup>nd</sup> Quarter

On December 8, 2020, Hydrodynamics Consultants, Inc. (HDC) crew members preformed the 2<sup>nd</sup> round of groundwater sampling from monitoring wells, MW1 to MW9. Please refer to the attached site map (Figure 2) for sampling locations.

A total of 11 new groundwater samples, including 1 duplicate and 1 trip blank, were analyzed for VOCs in accordance with US EPA Publication SW-846, Method 5035/8260B. The groundwater analytical results obtained are tabulated in Table 2. The groundwater COC distribution in the wells is illustrated in Figure 4. Sample Chain-of-Custody and Laboratory Analytical Results are located in Appendix VI. When compared to the Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard and Chapter NR 140 Preventive Action Limits (PALs), the following compounds are deemed as the contaminants of concern based on the new groundwater sampling results.

**Tetrachloroethene (PCE):** up to 4,600 µg/L of PCE was detected from MW2, MW5, and MW6 with concentrations exceeded the groundwater Enforcement Standard (5 µg/L) and Preventive Action Limit as defined in the NR 140.

**Trichloroethene (TCE):** up to 180 µg/L of TCE was detected from MW2, MW5, and MW6 with concentrations exceeded the groundwater Enforcement Standard (5 µg/L) and Preventive Action Limit as defined in the NR 140.

**Cis-1,2-Dichloroethene (cDCE):** up to 20 µg/L of cDCE was detected from MW5 with concentrations exceeded the Preventive Action Limit (7 µg/L) as defined in the NR 140.

**Vinyl Chloride (VC):** up to 7.8 µg/L of VC was detected from MW5 which exceeded the groundwater Enforcement Standard (0.2 µg/L) and Preventive Action Limit as defined in the NR 140.

In addition, 11 µg/L of chloroform was detected that exceeded the Enforcement Standard of 6 µg/L. in MW5-2/4 and its duplicated sample MW5-2/4-D.





Minimal contaminant was found in MW1, MW3, MW4, MW7, MW8 and/or MW9. However, the concentrations are all below the enforcement standards. No contaminant was detected in the trip blank sample.

The groundwater sampling results confirmed that the groundwater quality have been impacted by the released PCE and its degraded compounds of TCE, cDCE, and VC at this site. The groundwater cVOC plume is illustrated in Figures 4 (horizontal distribution) and 4a (cross section).

### ***5.5.2 Soil Vapor Monitoring/Sampling Results - 2<sup>nd</sup> Quarter***

On December 8, 2020, Hydrodynamics Consultants, Inc. (HDC) crew members preformed the 2<sup>nd</sup> round of vapor sampling from sample ports, SV1 to SV7. Please refer to the attached Sub-slab Vapor cVOC Distribution Map (Figure 5) for sampling locations.

During sampling activity, sub-slab vapor samples are collected, pursuant to Publication RR-800 (January 2018), Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin, and RR986 (Sub-Slab Sampling Procedures), to assess the indoor sub-slab vapor quality

A total of 8 sub-slab vapor samples, including 1 duplicate (SV2-D), were collected and analyzed for VOCs using US EPA Method TO-15, in accordance with RR-800, “Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin” procedures. The vapor analytical results obtained are tabulated in Table 3. The sub-slab vapor COC distribution is illustrated in Figure 5. Sample Chain-of-Custody and Laboratory Analytical Results are located in Appendix VI. HDC compared the analytical results to the US EPA’s Indoor Air Vapor Action Levels (VAL) and Sub-Slab Vapor Risk Screening Levels (VRSL), and the following exceedances were present.

**Tetrachloroethene (PCE):** up to 9,300  $\mu\text{g}/\text{m}^3$  of PCE was detected from vapor sampling port SV7, exceeding both the residential and commercial Indoor Air Vapor Action Levels, and both the residential and commercial Vapor Risk Screening Levels (VRSL). The VRSL of 5,840  $\mu\text{g}/\text{m}^3$  for PCE is applicable for this site.

**Trichloroethene (TCE):** up to 190  $\mu\text{g}/\text{m}^3$  of TCE was found from vapor sampling port SV7 with concentration exceeding both the residential and commercial Indoor Air Vapor Action Levels, and the residential Vapor Risk Screening Levels (VRSL). The commercial VRSL was not exceeded. The VRSL of 292  $\mu\text{g}/\text{m}^3$  for TCE is applicable for this site.

The sub-slab vapor sampling results confirmed that the sub-slab Vapor Risk Screening Levels have been exceeded at this site in the source areas. The EPA’s VRSL for commercial properties are applicable to this site. The soil vapor cVOC plume is illustrated in Figure 5 (horizontal distribution), while the vertical soil vapor cVOC distribution is shown in Figure 5a.



As part of the soil vapor monitoring process, HDC checked VOC concentrations in manholes at and around the property. The sanitary and storm manholes located in the parking lots and public right of ways around the property were checked with a photo-ionization detector (PID) which is calibrated with 100 ppm equivalent of isobutylene. Floor drains in the building in Westwood Cleaners and Super Cuts, as well as in the neighboring restaurant were also checked with the PID for VOCs. The air in the manholes and drains was measured by inserting the tip of the PID into the manholes and drains and waiting for the VOC readings. Based on our field measurements, no detectable VOC was found.

## 5.6 Quarterly Monitoring/Sampling Results - Third (3<sup>rd</sup>) Quarter

HDC performed the 3<sup>rd</sup> quarterly sampling, on March 26, 2021 at the subject property. The third quarterly sampling event included collecting samples from all the existing monitoring wells (MW1 to MW9) and sub-slab vapor sampling ports (SV1 to SV7).

### 5.6.1 Quarterly Groundwater Monitoring/Sampling Results - 3<sup>rd</sup> Quarter

On March 26, 2021, Hydrodynamics Consultants, Inc. (HDC) crew members (2 technicians and 2 engineers) performed the 3<sup>rd</sup> round of groundwater sampling from monitoring wells, MW1 to MW9. Please refer to the attached site map (Figure 2) for sampling locations.

A total of 11 new groundwater samples, including 1 duplicate and 1 trip blank, were analyzed for VOCs in accordance with US EPA Publication SW-846, Method 5035/8260B. The groundwater analytical results obtained are tabulated in Table 2. The groundwater COC distribution in the wells is illustrated in Figure 4. Sample Chain-of-Custody and Laboratory Analytical Results are located in Appendix VI. When compared to the Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard and Chapter NR 140 Preventive Action Limits (PALs), the following compounds are deemed as the contaminants of concern based on the new groundwater sampling results.

**Tetrachloroethene (PCE):** up to 1,700 µg/L of PCE was detected from MW2, MW5, and MW6 with concentrations exceeded the groundwater Enforcement Standard (5 µg/L) and Preventive Action Limit as defined in the NR 140.

**Trichloroethene (TCE):** up to 85 µg/L of TCE was detected from MW2, MW5, and MW6 with concentrations exceeded the groundwater Enforcement Standard (5 µg/L) and Preventive Action Limit as defined in the NR 140.

**Cis-1,2-Dichloroethene (cDCE):** up to 17 µg/L of cDCE was detected from MW5 with concentrations exceeded the Preventive Action Limit (7 µg/L) as defined in the NR 140.

The groundwater sampling results confirmed that the groundwater quality have been impacted by the released PCE and its degraded compounds of TCE, cDCE, and VC at this site in MW2, MW5, and MW6. No other contaminant of concern (COCs) was detected in other wells with



concentration exceeding the Preventive Action Limits (PALs). The groundwater cVOC plume is illustrated in Figures 4 (horizontal distribution) and 4a (cross section).

## 5.6.2 Soil Vapor Monitoring Sampling Results - 3<sup>rd</sup> Quarter

On March 26, 2021, Hydrodynamics Consultants, Inc. (HDC) crew members (2 technicians and 2 engineers) performed the 3<sup>rd</sup> round of vapor sampling from sample ports, SV1 to SV7. Please refer to the attached Sub-slab Vapor cVOC Distribution Map (Figure 5) for sampling locations.

A total of 8 sub-slab vapor samples, including 1 duplicate (SV4-3/4D), were collected and analyzed for VOCs using US EPA Method TO-15, in accordance with RR-800, “Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin” procedures. The vapor analytical results obtained are tabulated in Table 3. The sub-slab vapor COC distribution is illustrated in Figure 5. Sample Chain-of-Custody and Laboratory Analytical Results are located in Appendix VI. HDC compared the analytical results to the US EPA’s Indoor Air Vapor Action Levels (VAL) and Sub-Slab Vapor Risk Screening Levels (VRSL), and the following exceedances were present.

**Tetrachloroethene (PCE):** up to 6,800  $\mu\text{g}/\text{m}^3$  of PCE was detected from vapor sampling port SV7, and up to 7,300  $\mu\text{g}/\text{m}^3$  in the duplicate sample SV7-D, exceeding both the residential and commercial Indoor Air Vapor Action Levels, and both the residential and commercial Vapor Risk Screening Levels (VRSL). The VRSL of 5,840  $\mu\text{g}/\text{m}^3$  for PCE is applicable for this site.

The sub-slab vapor sampling results confirmed that the sub-slab Vapor Risk Screening Levels have been exceeded at this site in the source areas. The EPA’s VRSL for commercial properties are applicable to this site. No VOCs were found in any other vapor sampling ports with concentrations exceeding the Vapor Risk Screening Levels (VRSLs). The soil vapor VOC plume is illustrated in Figure 5 (horizontal distribution), while the vertical soil vapor VOC distribution is shown in Figure 5a.

As part of the soil vapor monitoring process, HDC checked VOC concentrations in manholes at and around the property. The sanitary and storm manholes located in the parking lots and public right of ways around the property were checked with a photo-ionization detector (PID) which is calibrated with 100 ppm equivalent of isobutylene. Floor drains in the building in Westwood Cleaners and Super Cuts, as well as in the neighboring restaurant were also checked with the PID for VOCs. The air in the manholes and drains was measured by inserting the tip of the PID into the manholes and drains and waiting for the VOC readings. Based on our field measurements, no detectable VOC was found.

## 5.7 Quarterly Monitoring Sampling Results – Fourth (4<sup>th</sup>) Quarter

The 4<sup>th</sup> quarterly sampling was performed on June 16, 2021. The fourth quarterly sampling event included collecting samples from all the existing monitoring wells (MW1 to MW9) and sub-slab vapor sampling ports (SV1 to SV7).



## ***5.7.1 Groundwater Monitoring Sampling Results - 4<sup>th</sup> Quarter***

A total of 11 new groundwater samples (MW1-4/4 to MW9-4/4), including 1 duplicate and 1 trip blank, were analyzed for VOCs in accordance with US EPA Publication SW-846, Method 5035/8260B. The groundwater analytical results obtained are tabulated in Table 2. The groundwater COC distribution in the wells is illustrated in Figure 4. Sample Chain-of-Custody and Laboratory Analytical Results are located in Appendix VI. When compared to the Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard and Chapter NR 140 Preventive Action Limits (PALs), the following compounds are deemed as the contaminants of concern based on the new groundwater sampling results.

**Tetrachloroethene (PCE):** 34 µg/L of PCE was detected from MW5 with concentrations exceeded the groundwater Enforcement Standard (5 µg/L) and Preventive Action Limit as defined in the NR 140.

The groundwater sampling results confirmed that the groundwater quality have been impacted by the released PCE and its degraded compounds of TCE, cDCE, and/or VC at this site in MW5. No other contaminant of concern (COCs) was detected in other wells with concentration exceeding the Preventive Action Limits (PALs). The groundwater cVOC plume is illustrated in Figures 4 (horizontal distribution) and 4a (cross section).

## ***5.7.2 Soil Vapor Monitoring Sampling Results - 4<sup>th</sup> Quarter***

On June 16, 2021, Hydrodynamics Consultants, Inc. (HDC) crew members (2 technicians and 2 engineers) preformed the 4<sup>th</sup> round of vapor sampling from sample ports SV1 to SV7. All the existing soil vapor sampling ports were sampled with samples SV1-4/4 to SV7-4/4. One duplicate sample was collected from SV3 port (SV3-4/4). Please refer to the attached Sub-slab Vapor cVOC Distribution Map (Figure 5) for sampling locations.

During sampling activity, sub-slab vapor samples are collected, pursuant to Publication RR-800 (January 2018), Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin, and RR986 (Sub-Slab Sampling Procedures), to assess the indoor sub-slab vapor quality.

A total of 8 sub-slab vapor samples (SV1-4/4 to SV7-4/4), including 1 duplicate (SV3-4/4D), were collected and analyzed for VOCs using US EPA Method TO-15, in accordance with RR-800, “Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin” procedures. The vapor analytical results obtained are tabulated in Table 3. The sub-slab vapor COC distribution is illustrated in Figure 5. Sample Chain-of-Custody and Laboratory Analytical Results are located in Appendix VI. HDC compared the analytical results to the US EPA’s Indoor Air Vapor Action Levels (VAL) and Sub-Slab Vapor Risk Screening Levels (VRSL), and the following exceedances were present.



**Tetrachloroethene (PCE):** up to 30,000  $\mu\text{g}/\text{m}^3$  of PCE was detected from vapor sampling port SV7 exceeding both the residential and commercial Indoor Air Vapor Action Levels, and both the residential and commercial Vapor Risk Screening Levels (VRSL). The VRSL of 5,840  $\mu\text{g}/\text{m}^3$  for PCE is applicable for this site.

**Trichloroethene (TCE):** up to 350  $\mu\text{g}/\text{m}^3$  of PCE was detected from vapor sampling port SV7 exceeding both the residential and commercial Indoor Air Vapor Action Levels, and both the residential and commercial Vapor Risk Screening Levels (VRSL). The VRSL of 292  $\mu\text{g}/\text{m}^3$  for TCE is applicable for this site.

The sub-slab vapor sampling results confirmed that the sub-slab Vapor Risk Screening Levels have been exceeded at this site in the source areas. The EPA's VRSL for commercial properties are applicable to this site. No VOCs were found in any other vapor sampling ports with concentrations exceeding the Vapor Risk Screening Levels (VRSLs). The soil vapor VOC plume is illustrated in Figure 5 (horizontal distribution), while the vertical soil vapor VOC distribution is shown in Figure 5a.

As part of the soil vapor monitoring process, HDC checked VOC concentrations in manholes at and around the property. The sanitary and storm manholes located in the parking lots and public right of ways around the property were checked with a photo-ionization detector (PID) which is calibrated with 100 ppm equivalent of isobutylene. Floor drains in the building in Westwood Cleaners and Super Cuts, as well as in the neighboring restaurant were also checked with the PID for VOCs. The air in the manholes and drains was measured by inserting the tip of the PID into the manholes and drains and waiting for the VOC readings. Based on our field measurements, no detectable VOC was found.

## 5.8 Second Quarterly Groundwater Table Elevation Monitoring Results

Prior to any groundwater disturbance, we conducted a water-table survey at every sampling event for monitoring wells MW1 through MW9. The top of the well casing of monitoring well MW6 was chosen as a survey reference point and assumed to be 100.00 feet site datum elevation. The relative elevation of the top of well casing for each well was then determined by level shooting, and the distances between wells were directly measured using a wheel measure. The relative water-table elevation survey data can be summarized in Table 9.

A water table contour map, established on August 10, 2020 for the additional site investigation, for the relative water-table elevations is constructed as shown in Figure 4b. All subsequent quarterly relative water-table elevations follow the same trend as shown in the previous reports. The groundwater flow trend is steadily to the west or southwest at this site. It may discharge to the Menomonee River basin located approximately 1,600' southwest of the site. According to Google Earth map, the water surface elevation at the Menomonee River is about 40' below the water table found at Westwood Cleaners site.



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**Table 9 Relative Water Table Elevations – Additional Site Investigation Quarterly**

Well Number	Relative Elevation of the Top of Casing	Water Depth (ft.) 8/10/20	Water Table Elevation (ft.) 8/10/20	Water Depth (ft.) 12/8/20	Water Table Elevation (ft.) 12/8/20	Water Depth (ft.) 3/26/21	Water Table Elevation (ft.) 3/26/21	Water Depth (ft.) 6/16/21	Water Table Elevation (ft.) 6/16/21
MW1	98.49	10.12	88.37	10.27	88.22	9.55	88.94	9.95	88.54
MW2	99.12	9.6	89.52	9.9	89.22	9.1	90.02	9.61	89.51
MW3	100.76	9.75	91.01	9.85	90.91	9.15	91.61	9.6	91.16
MW4	98.88	8.95	89.93	9.01	89.87	8.35	90.53	8.85	90.03
MW5	99.95	9.42	90.53	9.81	90.14	9.11	90.84	9.61	90.34
MW6	100	9.68	90.32	9.79	90.21	9.05	90.95	9.48	90.52
MW7	98.85	9.72	89.13	9.91	88.94	9.1	89.75	9.61	89.24
MW8	98.48	9.52	88.96	9.85	88.63	9.15	89.33	9.72	88.76
MW9	98.2	9.59	88.61	9.81	88.39	9.25	88.95	9.82	88.38



## 6.0 SITE ENVIRONMENTAL CONDITION SUMMARY AND ASSESSMENT

The following will summarize the general status of the released cVOCs and the migration trend with the residual contaminants in the soil, groundwater, and soil vapor. To exclude the potential exposure pathways and mitigate the environmental risks to the human health, safety, and welfare, or the environment, engineered barrier (cap), vapor mitigation system, and groundwater usage restriction are recommended for this site.

### 6.1 Soil Contamination and Exposure Prevention

#### 6.1.1 Soil Contamination Degree and Extent

Fifteen (15) new soil borings (NSB1 to NSB15) and four (4) old soil borings (SB1 to SB4) were placed to define the extent and degree of soil contamination. The soil sample analytical results are tabulated in Table 1, and illustrated in Figure 3. Based on the site investigation results, there are two soil plumes with cVOC concentrations higher than the Residual Contaminant Levels (RCLs) for soil to groundwater and one plume for soil direct contact pathways. The soil contamination extent and degree plumes are illustrated in Figures 3 and 3a.

#### 6.1.2 Soil Contamination Exposure Mitigation

Risk for direct soil contact is present in the subject building inside the drycleaning plant as shown in Figure 6. To prevent a potential direct soil contact pathway, Hydrodynamics Consultants, Inc. recommends use and maintenance of the existing concrete floor/building foundation in the area designated in Figure 6 as an engineered barrier (cap) for the contaminated soil at this site. The designated barrier covers an area of 40' by 35' inside the store building as illustrated in Figure 6.

### 6.2 Groundwater Contamination and Exposure Mitigation

#### 6.2.1 Groundwater Monitoring Results

The groundwater sample analytical results are tabulated in Table 2, and illustrated in Figure 4. Based on the groundwater sampling results, the following groundwater contamination trend can be summarized:

#### **MW1, MW3, MW4, MW7, and MW9**

A number of sampling events have been conducted in these wells since 2018. No chlorinated volatile organic compound (cVOC) was found with concentration exceeding the Enforcement Standard (ES) defined in NR140 in any sampling events. Based on the sampling results from these wells, the cVOCs are confined within or near the property boundaries.



## MW8

Four sampling events were completed from this well, and only trace amount (10 µg/L) of PCE was reported in the samples collected in August 10, 2020. However, no cVOC was found with concentration exceeding the Enforcement Standard (ES) defined in NR140 in the later sampling events conducted in December 2020, March 2021, and June, 2021.

## MW2

Nine (9) sampling events have been completed from this well, and chlorinated volatile organic compounds, including PCE and TCE, were found with concentrations exceeding the Enforcement Standard (ES) defined in NR140 in some sampling events. The highest concentrations in MW2 were 99 µg/L for PCE and 89 µg/L for TCE as found on July 2020. However, no VOC was found in the last sampling.

Since MW2 is located close to the property border, additional monitoring wells (MW7, MW8, and MW9) were installed in further down-gradient directions in August 2020 to define the groundwater contamination boundaries. No cVOC concentration was found in the down-gradient wells higher than the Enforcement Standard as defined in NR140 based on the last 3 sampling events conducted in December 2020, March 2021, and June, 2021. Therefore, the cVOC concentrations found from MW2 have been stable or decreasing. The cVOCs contaminants are confined within or near the property boundaries.

## MW5

Ten (10) sampling events have been completed from this well, and chlorinated volatile organic compounds, including PCE, TCE, VC, and chloroform were found with concentrations exceeding the Enforcement Standard (ES) defined in NR140 in all sampling events. The highest concentrations were 4,600 µg/L for PCE, 180 µg/L for TCE, 38 µg/L for VC, and 11 µg/L for chloroform.

According to the general groundwater flow trend found at this site, the groundwater flow trend has been steady to the west or southwest. Therefore, MW5 is located in the plume source area while monitoring wells MW8, MW9, and MW1 are in the down-gradient directions. No cVOC concentration was found in the down-gradient wells with concentration exceeding the Enforcement Standard as defined in NR140 based on the last 3 sampling events. Therefore, the cVOC concentrations found from MW5 have been stable or decreasing. The groundwater cVOCs are confined within or near the property boundaries.

## MW6

Nine (9) sampling events have been completed from this well, and chlorinated volatile organic compounds, including PCE, TCE, and VC were found with concentrations exceeding the Enforcement Standard (ES) defined in NR140 in all sampling events. The highest concentrations were 700 µg/L for PCE, 52 µg/L for TCE, 5.7 µg/L for VC.



According to the general groundwater flow trend found at this site, MW6 is located near the plume source area while monitoring wells MW8, MW9, and MW1 are in the down-gradient directions. No cVOC concentration was found in the down-gradient wells with concentration exceeding the Enforcement Standard as defined in NR140 based on the last 3 sampling events. Therefore, the cVOC concentrations found in MW6 have been stable or decreasing. The groundwater cVOCs are confined within or near the property boundaries.

### ***6.2.2 Groundwater Contamination Exposure Pathway Exclusion***

The potentially groundwater impacted areas may include the subject property (8735 W. North Avenue), the adjoining property (8725 W. North Avenue), and the public alley to the south of these two properties, as illustrated in Figure 6. To mitigate the groundwater usage risks, Hydrodynamics Consultants, Inc. recommends groundwater usage restrictions be implemented in the potential groundwater contamination areas, as shown in Figure 6.

## **6.3 Soil Vapor Contamination and Mitigation**

### ***6.3.1 Soil Vapor Contamination Monitoring Results***

The soil vapor sample analytical results are tabulated in Table 3, and illustrated in Figure 5. Based on the sub-slab soil vapor sampling results, the following vapor contamination trend can be summarized:

#### **SV1, SV2, SV3, SV4, SV5, and SV6**

Four to five sampling events have been conducted in these soil vapor ports since 2018. No chlorinated volatile organic compound (cVOC) was found with concentration exceeding the USEPA's Vapor Risk Screen Levels for commercial properties in any sampling events. Based on the sampling results from these locations, the sub-slab vapor cVOCs are confined within the property boundaries distributed near the drycleaning machine. Although trace amounts (up to 1,900  $\mu\text{g}/\text{m}^3$  of PCE) of cVOCs were reported in the basement (SV2) at the adjoining property at 8725 W. North Avenue, the results are all below the USEPA's VRSLs for commercial properties.

#### **SV7**

SV7 is located in the source area next to the drycleaning machine. Four sampling events have been conducted in this soil vapor port. Up to 38,000  $\mu\text{g}/\text{m}^3$  of PCE and 630  $\mu\text{g}/\text{m}^3$  of TCE were found with concentration exceeding the USEPA's Vapor Risk Screen Levels for commercial properties at this location.

Based on the sub-slab vapor sampling results from SV1 to SV7, the sub-slab vapor cVOCs are confined within the property boundaries and originate near the drycleaning machine area, with concentrations higher than VRSLs for commercial properties being defined in Figure 6.

### ***6.3.2 Proposed Soil Vapor Mitigation System***

Based on the last 4 quarterly sampling results from this site, the cVOCs are confined around the SV7 area within the property boundaries. Risk for vapor intrusion to the subject building inside the drycleaning plant (see Figure 6) needs to be addressed.

To exclude the indoor vapor intrusion pathway, HDC proposes installation of a soil vapor mitigation system in the source areas. A sub-slab depressurization (SSD) system is proposed as follows:

- a. A U-shaped trench will be cut in the concrete floor as shown in Figure 6. The trench will be approximately 2' deep by 2" wide by 75' long and filled with crushed stone (CA-7). A 4"-diameter perforated pipe will be buried in the middle of the gravel inside the trench before the concrete floor is restored. The trench will function as suction gallery that will have more than 50 cubic feet of void volume which can greatly enhance system performance.
- b. A 4"-diameter PVC pipe will be used to extend vertically from the perforated pipe to an in-line blower (Model RP265 from RadonAway Company), which is capable of up to 2.1 inches of water column (wc) suction and up to 166 cubic feet air per minute (cfm) flow.
- c. The proposed sub-slab depressurization system must have a measurable vacuum ( $<-0.003''$  wc) within the covered area (under the 40' by 35' engineered barrier or cap).
- d. All visible cracks and joints in the slab (including places where pipes exit the slab) and foundation walls will be sealed.
- e. The exhausts pipe outside the building will be extended above the roof ( $>12'$ ) and be placed more than 10' from any doors or windows.

Upon installation of the above SSD system, measurements will be made in the mitigation areas with a manometer to ensure a measurable vacuum ( $>0.003''$  wc) is present. Concrete floor penetration holes will be properly sealed after the vacuum measurements.

Figure 6 illustrates the sub-slab depressurization (SSD) system trench location for this site, while Figure 6a is the diagram showing the SSD system cross section.



## 7.0 POTENTIAL RECEPTORS AND RISK ASSESSMENTS

This site investigation has revealed that contamination associated with the release of PCE and its degraded compounds are present in the soil and groundwater with concentrations above the regulatory requirements. Soil vapor sample results are all below the US EPA's sub-slab Vapor Risk Screening Levels, although 1.2 mg/ m<sup>3</sup> of PCE were found in the sub-slab vapor sample collected below the partial basement concrete floor in the neighboring restaurant.

### *7.1 Potential Receptors & Risks for Groundwater or Soil to Groundwater Pathways*

Site features such as pavement and building foundation will serve as a barrier to limit leaching of underlying soil, and a groundwater use restriction can be enacted by prohibiting construction of water supply wells within the property. The receptors from the local use of the groundwater can be eliminated.

Potable water in the area is supplied by the City of Wauwatosa which acquires its water source from Milwaukee Water Works that withdraws water from Lake Michigan. According to the Wisconsin DNR water well construction databases, only one private water supply well is located within a 1,200' radius from the site. That private well was constructed in 1948 at 2437 North 88 Street, which is about 1,000' north/northwest from this site. This private well is no longer in use based on the database of active water wells listed by the City of Wauwatosa. Public water wells are located at 10000 and 10122 West North Avenue which are within 1 mile distance to the west of the site. The closest public water well is about 4,000' west of the site across the Menomonee River Valley near North Avenue. Since the groundwater from this site may have been intercepted by the surface water body at Menomonee River, these public water wells are unlikely to be receptors of the cVOCs discovered at this site.

### *7.2 Potential Receptors & Risks for Soil Contact Pathway*

Soil with cVOC concentrations above the soil contact pathway is located within the Westwood Cleaners store (see Figure 3a, Soil cVOC & Geological Cross Section). Since the store is covered with a concrete floor, contact with the subfloor soil is unlikely. The concrete floor can be maintained as an engineered barrier to prevent any future soil contact pathway. However, it should be stipulated that any construction work performed under the concrete floor should be properly protected from any contact with the contaminated soils. Any soil waste generated from the construction should be properly managed.

### *7.3 Potential Receptors & Risks for Soil Vapor Inhalation Pathway*

According to the vapor sampling results, which prove that cVOC levels are below the USEPA's sub-slab Vapor Risk Screen Levels (VRSL), the cVOCs do not pose potential indoor intrusion risks. Based on this, it is HDC's opinion that the vapor intrusion can be excluded from further consideration at the subject property and the property to the east. However, if the concentrations



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are found higher than the VRSLs, sub-slab vapor mitigation systems (such as sub-slab depressurization systems) can be installed to eliminate this pathway.

In Summary, risks to the public health, welfare, or environment from the cVOCs released in soil, groundwater, or soil vapor can be eliminated by implementation of engineering controls or institutional measures.



## 8.0 CONCLUSIONS AND RECOMMENDATIONS

Based on existing site investigation results and the groundwater/vapor monitoring results, Hydrodynamics Consultants, Inc. believes the concentrations of the released drycleaning solvent, tetrachloroethylene (PCE) and its degraded compounds (such as trichloroethylene -TCE, cis-1,2/trans- dichloroethylene - DCE, and vinyl chloride - VC) have been decreasing or stable, without any sign of impact to the environment or human health and safety. Based on the sampling results, HDC requests that the WDNR consider this case for conditional closure, with the following conditions:

1. Groundwater contamination remains at this site, including the subject property at 8735 W. North Avenue, and potentially the adjoining property to the east at 8725 W. North Avenue, and the public alley to the south of the above two properties (See Groundwater Usage Restriction Area in Figure 6). Groundwater well installation or extraction from these properties should be prohibited.
2. Residual soil contamination exists that must be properly managed should it be excavated or removed. The existing building concrete floor and foundation must be maintained over the contaminated area as an engineered barrier to prevent any soil contact. The DNR must be notified to approve any change to this barrier. The 40' by 35' Engineered Barrier (cap) Area is illustrated in Figure 6.
3. The sub-slab soil vapor contamination is present under the drycleaning plant area. The proposed soil vapor mitigation system, which is a sub-slab depressurization system, must be properly installed to mitigate any indoor vapor intrusion risks. The vapor mitigation system, upon installation, must be kept operational and properly maintained. The sub-slab depressurization system should cover the same 40' by 35' Engineered Barrier Area as illustrated in Figure 6.
4. Upon the DNR's approval of the conditional case closure for this site, the monitoring wells and the soil vapor sampling ports should be properly plugged and the surface be restored. See Appendix V, Well/Borehole Abandonment Reports, for current abandoned wells.
5. The site should be included in the Geographic Information System (GIS) Registry upon closure.

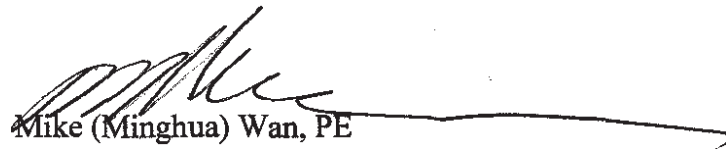


## 9.0 CONCLUDING REMARKS

The environmental assessment detailed in this report has been performed in accordance with generally accepted methods and practices of the environmental profession. The findings obtained in this project are believed to be reliable to the extent possible for the information gathered and for the scope and intent of the work mutually agreed upon by the client and HDC. HDC does not make any warrantee or guarantee, expressly or implied, to conditions that could not be considered in our report, because the conditions were not readily available, hidden, or not disclosed to our inquiries and investigations.

HDC appreciates the opportunity to be of service to you on this project. If you have any questions concerning this report, please feel free to contact my office.

Prepared by:

A handwritten signature in black ink, appearing to read "Mike Wan", is written over a horizontal line.

Mike (Minghua) Wan, PE  
Senior Engineer

Reviewed by

**Yong Yu, Ph.D.**  
Senior Project Manager

Maple Testing Services, Inc.  
D/B/A Hydrodynamics Consultants, Inc.

# **TABLES**





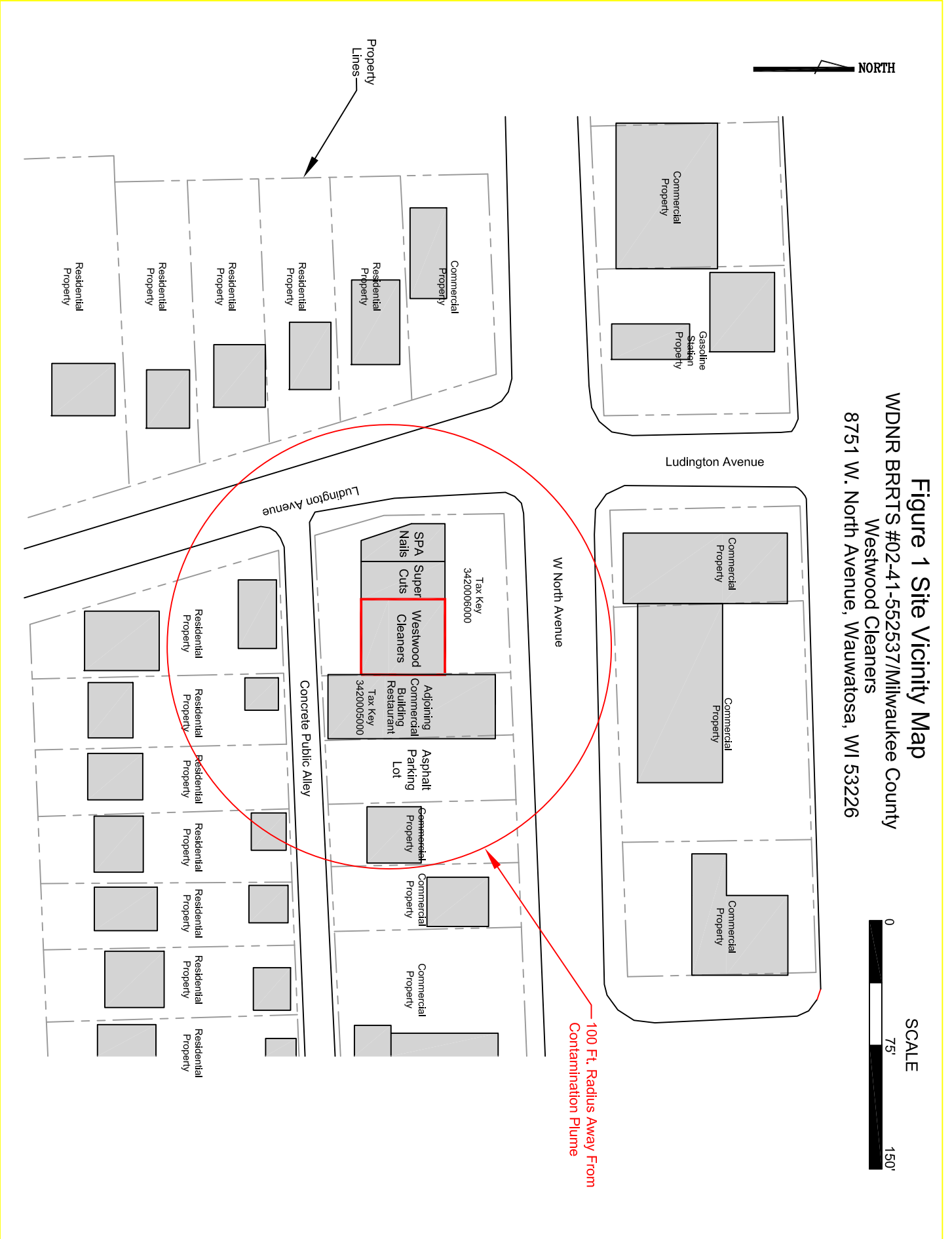


Table 3 - Vapor VOC Analytical Results

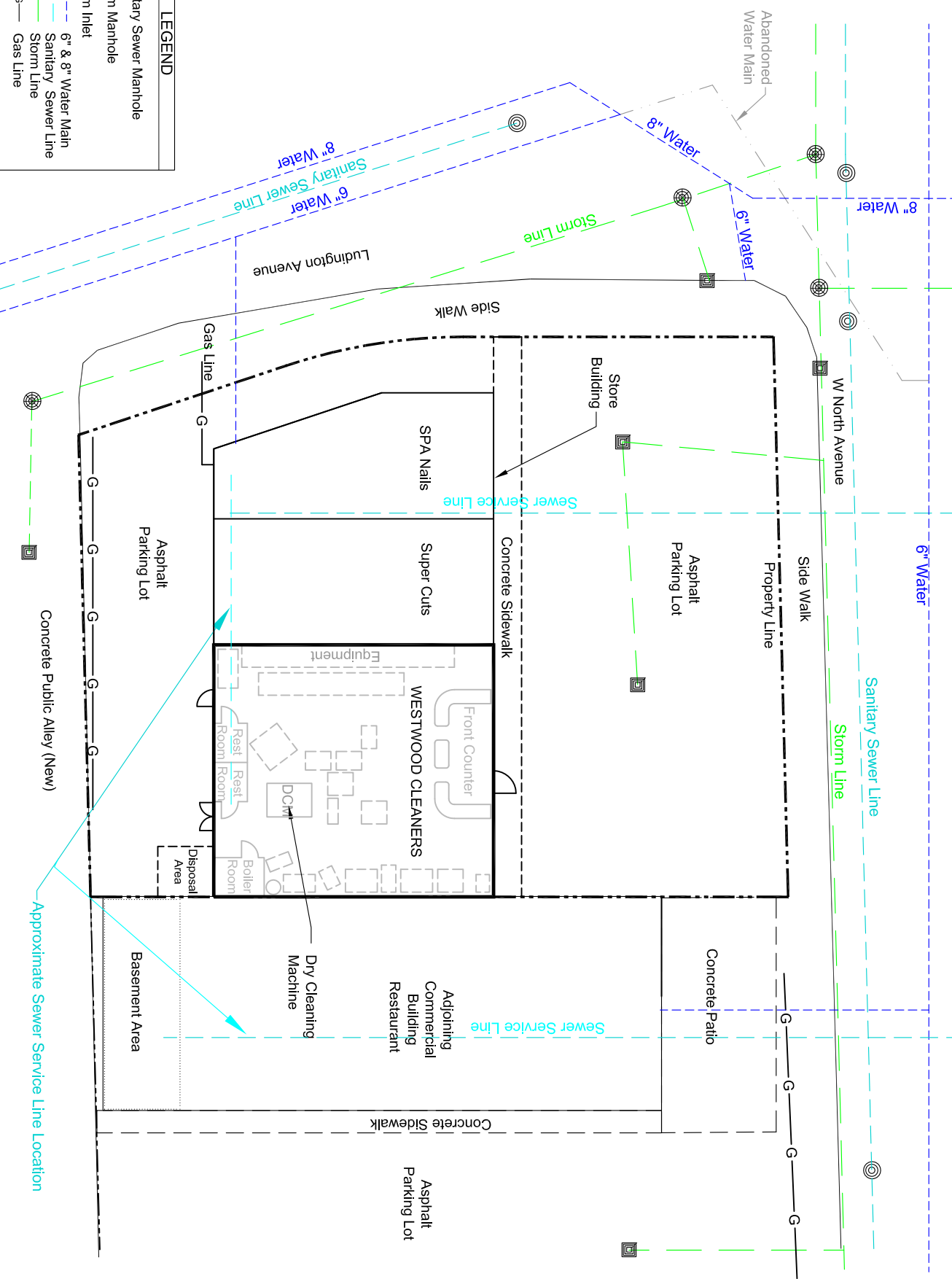
TABULATION OF SAMPLE ANALYTICAL RESULTS	VOCS ↓	Analytical Results (µg/m³) ↓																																									
		1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1,2-Dichloroethane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,4-Dichlorobenzene	1,4-Dioxane	2-Butanone	Acetone	Benzene	Bromodichloromethane	Bromofom	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroform	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropyl Alcohol	m,p-Xylene	Methyl tert-butyl ether	Methylene chloride	Naphthalene	o-Xylene	Styrene	Tetrahydroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl acetate	Vinyl chloride	Xylene - total	
Indoor Air Vapor Action Levels (VAL)*	Residential	5210	0.209	17.5	209	2.09	0.047	209	1.08	4.17	2.55	5.62	NV	32200	3.6	0.759	25.5	5.21	730	4.68	52.1	1.22	NS	NS	NS	104	11.2	209	104	108	626	0.826	104	1040	41.7	5210	NS	NS	2.09	NS	209	1.68	104
	Commercial	21900	0.876	76.7	876	8.76	0.204	876	4.72	17.5	11.1	24.5	NV	135000	1.57	3.31	111	21.9	3070	20.4	219	5.33	NS	NS	NS	438	49.1	876	438	472	2630	3.61	438	4380	175	21900	NS	NS	8.76	NS	876	27.9	438
Vapor Risk Screening Levels (VRSL)*	Residential	174000	6.95	585	6950	69.5	1.56	6950	36	139	85.1	187	NV	1070000	120	25.3	851	174	24300	156	1740	40.7	NS	NS	NS	3480	374	6950	3480	3600	20900	27.5	3480	34800	1390	174000	NS	NS	69.5	NS	6950	55.9	3480
	Commercial	730000	29.2	2560	29200	292	6.81	29200	157	584	372	818	NV	4510000	524	110	3720	730	102000	681	7300	178	NS	NS	NS	14600	1640	29200	14600	15700	87600	120	14600	146000	5840	730000	NS	NS	292	NS	29200	929	14600
Sample ID ↓	Sampling Date ↓																																										
SV1	09/19/2018	<3.7	<3.7	<2.7	<2.7	<5.0	<5.0	<4.0	<2.7	<3.0	<4.0	<6.0	<5.0	<16	3.7	<4.3	<17	<6.3	7	<4.3	<3.0	<3.3	<2.7	<3.0	<5.7	<3.3	10	--	35	<2.3	<2.3	<0.99	13	15	17	57	<2.7	<3.0	<3.7	<3.7	<2.3	<1.7	49
	07/28/2020	<3.4	<3.4	<2.5	<2.5	<4.6	<4.6	<3.7	<2.5	<2.8	<3.7	<5.6	<4.6	170	2.3	<4	<16	<5.9	6.9	<4	<2.8	5.1	<2.5	<2.8	<5.2	<3.1	7.2	4400	29	<2.2	<2.1	5.7	11	11	35	29	<2.5	<2.8	<3.4	<3.4	<2.2	<1.5	40
	12/08/2020	<1.6	<1.6	<1.1	<1.1	2.5	<2.1	<1.7	<1.1	<1.3	<1.7	2.4	9.6	<0.86	<1.9	<7.4	<2.7	0.89	<2.9	<1.3	7	<1.1	<1.3	<2.4	4.5	3	46	14	<1.0	<9.9	4.2	4.6	<1.3	43	11	<1.1	<1.3	<1.6	<1.6	<1.0	<0.71	<1.8	
	03/26/2021	<4.7	<4.7	<3.5	<3.4	<6.4	<6.7	<5.2	<3.5	<4.0	<5.2	<7.8	<6.4	44	<2.8	<5.8	<22	<8.4	<2.7	<5.5	<4.0	5.5	<3.4	<3.9	<7.4	<4.3	6.2	520	26	<3.1	<3.0	8.9	10	<3.7	33	24	<3.4	<3.9	<4.7	<4.9	<3.1	<2.2	37
SV2	06/16/2021	<3.9	<3.9	<2.8	<2.8	<5.3	<5.3	<4.3	<2.8	<3.2	<4.3	<6.4	5.7	54	4	<4.6	<19	<6.8	<2.2	<4.6	<3.2	6.3	<2.8	<3.2	<6.1	<3.6	13	1900	45	<2.5	<25	5	16	<3.2	48	59	<2.8	<3.2	<3.9	<3.9	<2.5	<1.8	62
	09/19/2018	<4.0	<4.0	<2.9	<2.9	<5.5	<5.5	<4.4	<2.9	<3.3	<4.4	<6.6	6.5	<18	5.2	<4.8	<19	<7.0	15	<4.8	<3.3	8.4	<2.9	<3.3	<6.2	<3.7	12	--	40	<2.6	<25	<1.1	13	15	1200	62	<2.9	<3.3	100	<4.0	<2.6	<1.8	54
	07/28/2020	<8.5	<8.5	<6.2	<6.2	<12	<12	<9.2	<6.2	<6.9	<9.2	<14	35	180	8.8	<10	<40	<15	11	<10	<6.9	<7.7	<6.2	<6.9	<13	<7.7	<6.9	460	<13	<5.4	<5.3	<7.7	<6.9	<6.9	1900	14	<6.2	<6.9	80	<8.5	<5.4	<3.8	<2.0
	12/08/2020	<1.6	<1.6	<1.1	<1.1	2.8	<2.5	<3.0	<1.3	<1.5	<2.0	<3.0	<2.5	11	<0.99	<2.1	<8.6	<3.1	<1.0	<2.1	<1.5	<1.7	<1.3	<1.5	<2.8	4.6	1.5	11	7.8	<1.2	<1.1	3.6	2.8	<1.5	32	5.6	<1.3	<1.5	<1.8	<1.8	<1.2	<0.73	11
SV2-D	03/26/2021	<4.7	<4.7	<3.5	<3.4	<6.4	<6.7	<5.2	<3.5	<4.0	<5.2	<7.8	<6.4	44	<2.8	<5.8	<22	<8.4	<2.7	<5.5	<4.0	8.7	<3.4	<3.9	<7.4	<4.3	<3.8	130	8.3	<3.1	<3.0	<4.5	<3.8	<3.7	520	6.9	<3.4	<3.9	7	<4.9	<3.1	<2.2	12
	06/16/2021	<4.0	<4.0	<2.9	<2.9	<5.5	<5.5	<4.4	<2.9	<3.3	<4.4	<6.6	6.9	73	4.1	<4.8	<19	<7.0	3.9	<4.8	<3.3	15	<2.9	<3.3	<6.2	<3.7	11	410	46	<2.6	<25	7.5	16	<3.3	68	48	<2.9	<3.3	<4.0	<4.0	<3.1	<2.2	18
	12/08/2020	<2.4	<2.4	<1.7	<1.7	<3.3	<3.3	<2.6	<1.7	<2.0	<2.6	<3.9	<3.3	13	<1.3	<2.8	<11	<4.1	<1.4	<2.8	<2.0	<2.2	<1.7	<2.0	<3.7	4.2	4.5	45	21	<1.5	<1.5	3.6	7.7	<2.0	79	17	<1.7	<2.0	<2.4	<2.4	<1.5	<1.1	29
	09/16/2018	<3.9	<3.9	<2.9	<2.9	5.4	5.4	4.3	2.9	3.2	4.3	6.5	6.4	34	2.5	0.96J	<19	<6.8	19	<4.7	<3.2	2.3	<2.9	<3.2	<6.1	0.35J	4.7	1200	17	<2.5	8.1J	<3.6	6.9	7.2	300	22	<2.9	<3.2	4.2	0.81J	<2.5	<1.8	24
SV3	07/28/2020	<8.4	<8.4	<6.1	<6.1	<11	<11	<9.2	<6.1	<6.9	<9.2	<14	<11	45	<4.6	<9.9	<40	<14	<4.8	<9.9	<6.9	<7.6	<6.1	<6.9	<13	<7.6	<6.9	850	<13	<5.3	<5.3	<7.6	<6.9	<6.9	790	<6.1	<6.9	14	<8.4	<5.3	<3.8	<2.0	
	12/08/2020	<1.9	<1.9	<1.4	<1.4	<2.6	<2.6	<3.1	<1.4	<1.6	<2.1	<3.1	9.6	30	1.7	<2.2	<9.0	<3.3	1.8	<2.2	<1.6	1.9	<1.4	<1.6	<2.9	4.1	7.7	410	37	<1.2	<1.2	4	13	<1.6	130	31	<1.4	<1.6	2	<1.9	<1.2	<0.86	50
	03/26/2021	<4.0	<4.0	<3.0	<2.9	<5.5	<5.7	<4.4	<3.0	<3.4	<4.4	<6.6	<5.4	51	<2.7	<4.9	<19	<7.2	<2.3	<4.6	<3.4	<3.6	<2.9	<3.3	<6.3	<3.6	5.8	1700	24	<2.7	<26	<3.9	9	<3.1	120	21	<2.9	<3.3	<4.0	<4.1	<2.6	<1.9	33
	06/16/2021	<4.4	<4.4	<3.2	<3.2	<6.0	<6.0	<4.8	<3.2	<3.6	<4.8	<7.2	<6.0	40	5.1	<4.2	<21	<7.6	3.1	<5.2	<3.6	4.0	<3.2	<3.6	<6.8	<4.0	15	450	63	<2.8	42	7.5	22	<3.6	200	70	<3.2	<3.6	4.7	<4.4	<2.8	<2.0	85
SV3-D	09/16/2018	<9.1	<9.1	<6.6	<6.6	<12	<12	<9.9	<6.6	<7.4	<9.9	<15	<12	25J	2.9J	1.1J	<43	<16	<5.1	<11	<7.4	2J	<6.6	<7.4	<14	<8.3	2.2J	900	8.6J	<5.8	33J	<8.3	3.6J	3.2J	300	11	<6.6	<7.4	3.6J	0.93J	<5.8	<4.1	12
	06/16/2021	<4.0	<4.0	<2.9	<2.9	<5.5	<5.5	<4.4	<2.9	<3.3	<4.4	<6.6	<5.5	47	2.9	<4.8	<19	<7.0	<2.3	<4.8	<3.3	<3.7	<3.0	<3.3	<6.2	<3.7	8.1	820	35	<2.6	260	6.3	13	<3.3	200	35	<2.9	<3.3	<4.1	<4.1	<2.6	<1.8	48
	09/19/2018	<4.1	<4.1	<3.0	<3.0	<5.6	<5.6	<4.4	<3.0	<3.3	<4.4	<6.7	<5.6	130	<2.2	<4.8	<19	<7.0	5.5	<4.8	<3.3	<3.7	<3.0	<3.3	<6.3	<3.7	4.7	--	17	<2.6	<26	<1.1	6.9	8.5	52	21	<3.0	<3.3	<4.1	<4.1	<2.6	<1.9	24
	07/28/2020	<8.5	<8.5	<6.2	<6.2	<12	<12	<9.3	<6.2	<7.0	<9.3	<14	<12	160	<4.7	<10	<40	<15	8	<10	<7	<7.8	<6.2	<7	<13	<7.8	8.8	5500	35	<5.4	<5.4	9.4	13	13	460	32	<6.2	<7	<8.5	<8.5	<5.4	<3.9	49
SV4	12/08/2020	<1.9	<1.9	<1.4	<1.4	<2.7	<2.7	<2.1	<1.4	<1.6	<2.1	<3.2	3.6	10	<1.1	<2.3	<9.2	<3.4	<1.1	<2.3	<1.6	2.4	<1.4	<1.6	<3.0	4	3.4	130	16	<1.2	<1.2	4.4	6.7	<1.6	160	10	<1.4	<1.6	<1.9	<1.9	<1.2	<0.88	22
	03/26/2021	<4.4	<4.4	<3.2	<3.2	<6.0	<6.2	<4.9	<3.3	<3.7	<4.9	<7.3	<6.0	46	<2.6	<5.4	<21	<7.9	<2.5	<5.1	<3.7	<4.0	<3.2	<3.7	<6.9	<4.0	6.9	780	33	<2.9	28	5.5	13	<3.5	20	31	<3.2	<3.7	<4.4	<4.6	<2.9	<2.2	47
	06/16/2021	<5.3	<5.3	<3.8	<3.8	<7.2	<7.2	<5.8	<3.8	<4.3	<5.8	<8.7	<7.2	31	3.1	<6.2	<25	<9.1	<3.0	<6.2	<4.3	<4.8	<3.8	<4.3	<8.2	<4.8	9.2	190	41	<3.4	<33	7.3	14	<4.3	86	38	<3.8	<4.3	<5.3	<5.3	<3.4	<2.4	56
	09/19/2018	<7.7	<7.7	<5.6	<5.6	<11	<11	<8.4	<5.6	<6.3	<8.4	<13	<11	120	4.3	<9.1	<36	<13	5.9	<9.1	<6.3	<7.0	<5.6	<6.3	<12	<7.0	11	--	36	<4.9	<48	<2.1	14	13	63	50	<5.6	<6.3	<7.7	<7.7	<4.9	<3.5	49
SV5	07/28/2020	<3.4	<3.4	<2.5	<2.5	<4.7	<4.7	<3.8	<2.5	<2.8	<3.8	<5.6	6.8	190	<1.9	<4.1	<16	<6	4.3	<4.1	<2.8	<4																					

# **FIGURES**

**Figure 1 Site Vicinity Map**  
 WDNR BRRTS #02-41-552537/Milwaukee County  
 Westwood Cleaners  
 8751 W. North Avenue, Wauwatosa, WI 53226



NORTH

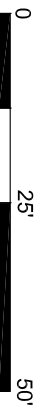


LEGEND

- Sanitary Sewer Manhole
- Storm Manhole
- Storm Inlet
- 6" & 8" Water Main
- Sanitary Sewer Line
- Storm Line
- Gas Line

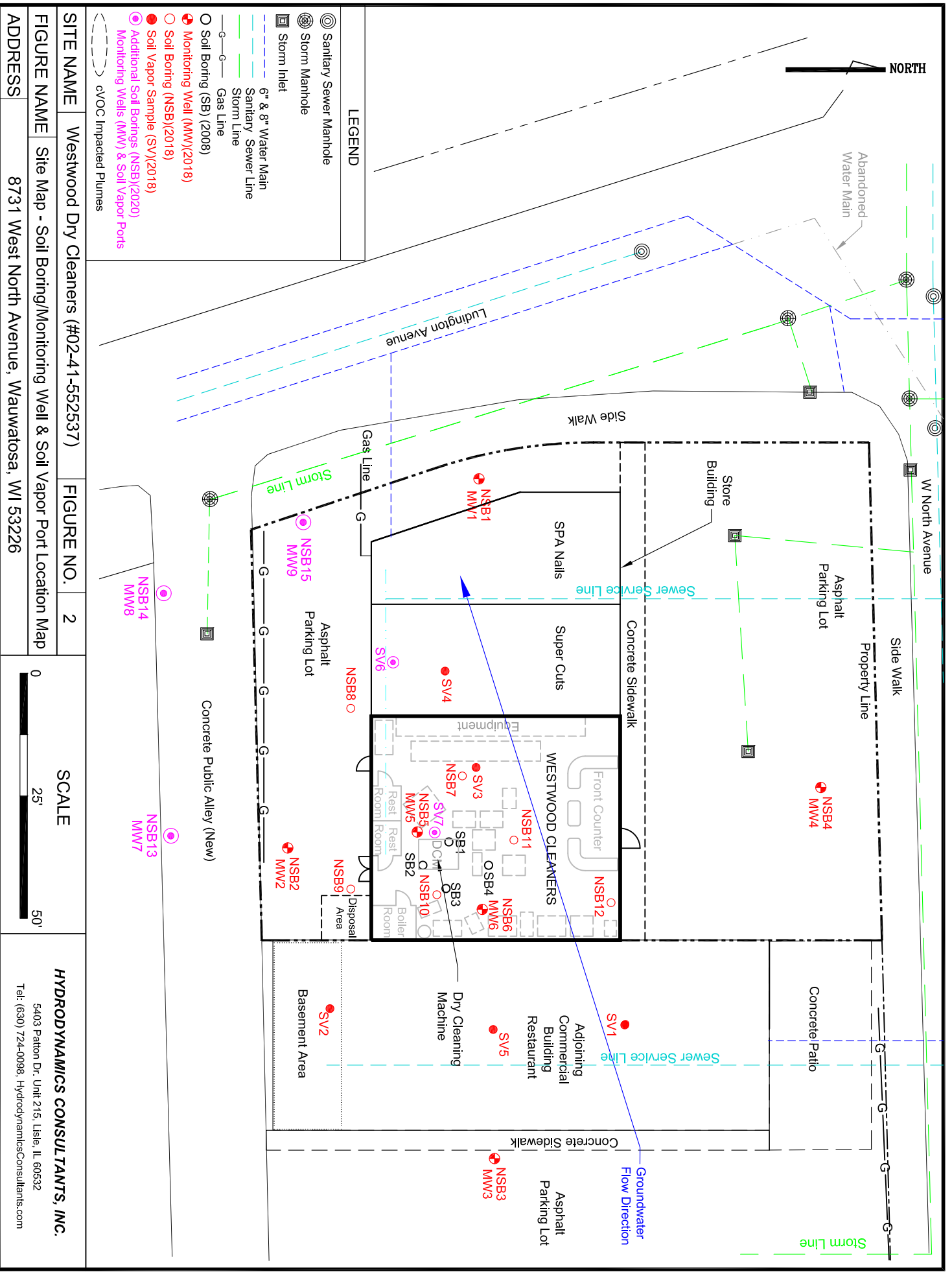
SITE NAME	Westwood Dry Cleaners (#02-41-552537)	FIGURE NO.	1a
FIGURE NAME	Site Utility Line Location Map		
ADDRESS	8731 West North Avenue, Wauwatosa, WI 53226		

SCALE



**HYDRODYNAMICS CONSULTANTS, INC.**  
 5403 Patton Dr., Unit 215, Lisle, IL 60532  
 Tel: (630) 724-0098, HydrodynamicsConsultants.com

Approximate Sewer Service Line Location



**LEGEND**

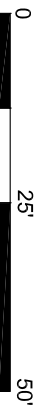
- Sanitary Sewer Manhole
- Storm Manhole
- Storm Inlet
- 6" & 8" Water Main
- Sanitary Sewer Line
- Storm Sewer Line
- Gas Line
- Soil Boring (SB) (2008)
- Monitoring Well (MW)(2018)
- Soil Boring (NSB)(2018)
- Soil Vapor Sample (SV)(2018)
- Additional Soil Borings (NSB)(2020)
- Monitoring Wells (MW) & Soil Vapor Ports
- cVOC Impacted Plumes

**SITE NAME** Westwood Dry Cleaners (#02-41-552537) **FIGURE NO.** 2

**FIGURE NAME** Site Map - Soil Boring/Monitoring Well & Soil Vapor Port Location Map

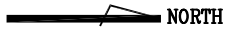
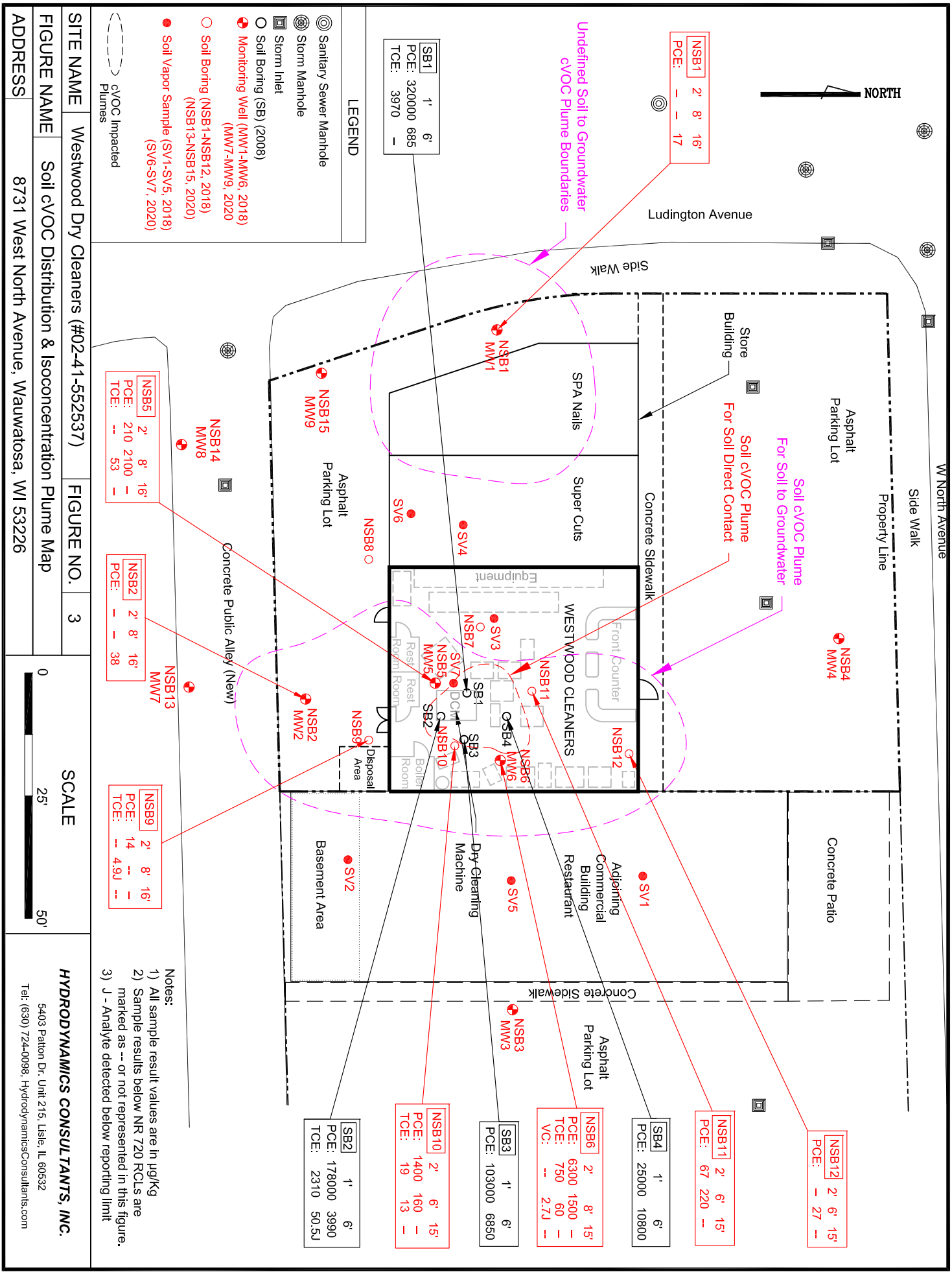
**ADDRESS** 8731 West North Avenue, Wauwatosa, WI 53226

**SCALE**



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**LEGEND**

- ⊙ Sanitary Sewer Manhole
- ⊙ Storm Manhole
- ⊙ Storm Inlet
- Soil Boring (SB) (2008)
- ⊕ Monitoring Well (MW1-MW6, 2018) (MW7-MW9, 2020)
- Soil Boring (NSB1-NSB12, 2018) (NSB13-NSB15, 2020)
- Soil Vapor Sample (SV1-SV5, 2018) (SV6-SV7, 2020)
- - - - - cVOC Impacted Plumes

NSB5	2'	8'	16'
PCE:	210	2100	--
TCE:	--	53	--

NSB2	2'	8'	16'
PCE:	--	--	38
TCE:	--	--	--

NSB9	2'	8'	16'
PCE:	14	--	4.9J
TCE:	--	--	--

SB1	1'	6'
PCE:	320000	685
TCE:	3970	--

NSB1	2'	8'	16'
PCE:	--	--	17
TCE:	--	--	--

NSB12	2'	6'	15'
PCE:	--	27	--
TCE:	--	--	--

NSB11	2'	6'	15'
PCE:	67	220	--
TCE:	--	--	--

SB4	1'	6'
PCE:	25000	10800
TCE:	--	--

NSB6	2'	8'	15'
PCE:	6300	1500	--
TCE:	750	60	--
VC:	--	2.7J	--

SB3	1'	6'
PCE:	103000	6850
TCE:	--	--

NSB10	2'	6'	15'
PCE:	1400	160	--
TCE:	19	13	--

SB2	1'	6'
PCE:	178000	3990
TCE:	2310	50.5J

- Notes:
- 1) All sample result values are in µg/Kg
  - 2) Sample results below NR 720 RCLs are marked as -- or not represented in this figure.
  - 3) J - Analyte detected below reporting limit

**HYDRODYNAMICS CONSULTANTS, INC.**

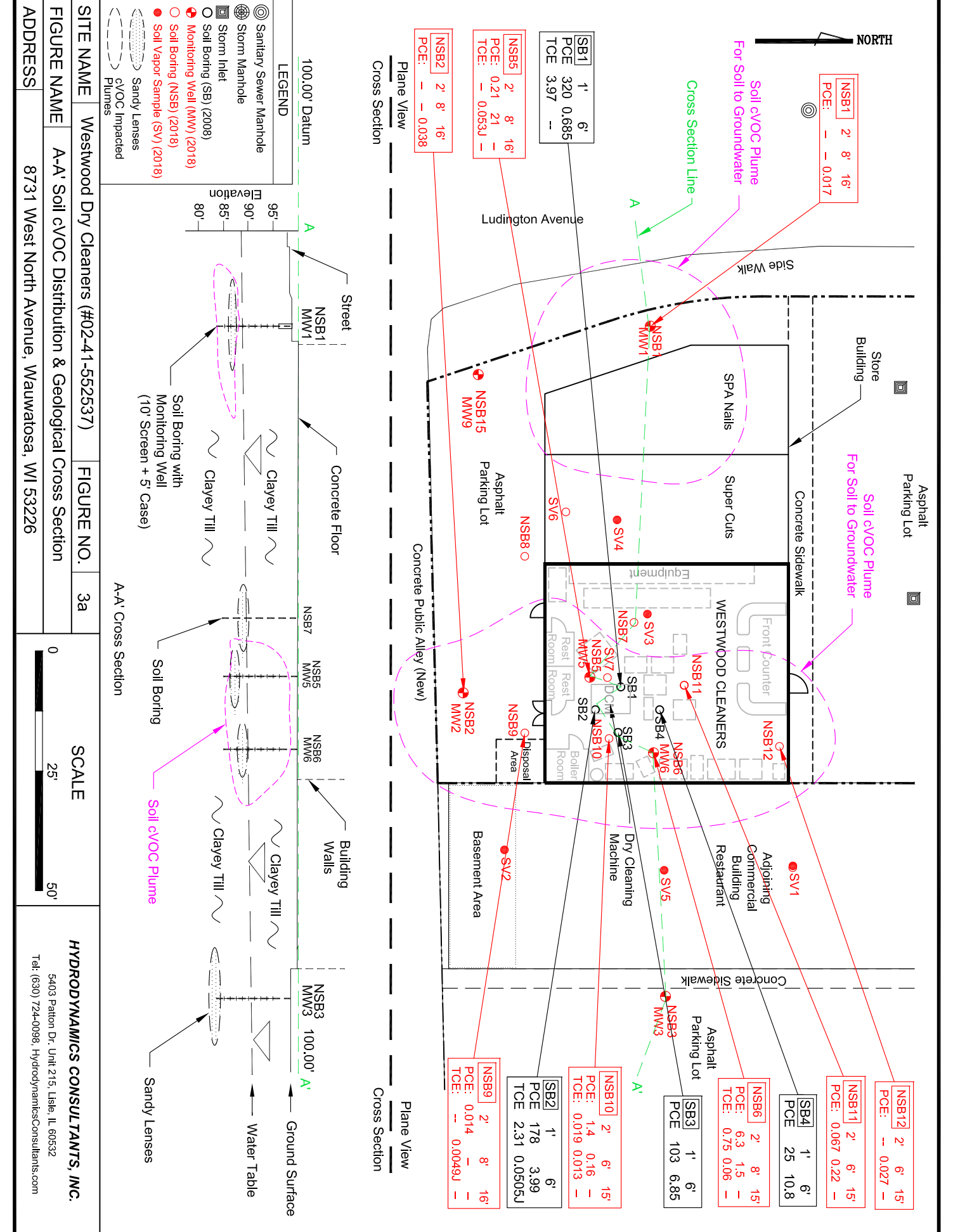
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**SITE NAME** Westwood Dry Cleaners (#02-41-552537) **FIGURE NO.** 3

**FIGURE NAME** Soil cVOC Distribution & Isoconcentration Plume Map

**ADDRESS** 8731 West North Avenue, Wauwatosa, WI 53226





<b>FIGURE NAME</b>	A-A' Soil cVOC Distribution & Geological Cross Section
<b>ADDRESS</b>	8731 West North Avenue, Wauwatosa, WI 53226

<b>SITE NAME</b>	Westwood Dry Cleaners (#02-41-552537)
<b>FIGURE NO.</b>	3a

<b>SCALE</b>	0 25' 50'
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<b>LEGEND</b>	Sanitary Sewer Manhole
	Storm Manhole
	Storm Inlet
	Soil Boring (SB) (2008)
	Monitoring Well (MW) (2018)
	Soil Boring (NSB) (2018)
	Soil Vapor Sample (SV) (2018)
	Sandy Lenses
	cVOC Impacted Plumes

<b>SB1</b>	1'	6'
<b>PCE</b>	320	0.685
<b>TCE</b>	3.97	--

<b>NSB5</b>	2'	8'	16'
<b>PCE:</b>	0.21	21	--
<b>TCE:</b>	0.053J	--	--

<b>NSB2</b>	2'	8'	16'
<b>PCE:</b>	--	--	0.038

<b>NSB12</b>	2'	6'	15'
<b>PCE:</b>	--	0.027	--

<b>NSB11</b>	2'	6'	15'
<b>PCE:</b>	0.067	0.22	--

<b>SB4</b>	1'	6'
<b>PCE</b>	25	10.8

<b>NSB6</b>	2'	8'	15'
<b>PCE:</b>	6.3	1.5	--
<b>TCE:</b>	0.75	0.06	--

<b>NSB10</b>	2'	6'	15'
<b>PCE:</b>	1.4	0.16	--
<b>TCE:</b>	0.019	0.013	--

<b>NSB2</b>	1'	6'
<b>PCE</b>	178	3.99
<b>TCE</b>	2.31	0.0505J

<b>NSB9</b>	2'	8'	16'
<b>PCE:</b>	0.014	--	--
<b>TCE:</b>	--	0.0049J	--

**Plane View**  
Cross Section

**Plane View**  
Cross Section

**Plane View**  
Cross Section

**Plane View**  
Cross Section

100.00' Datum

100.00' Datum

100.00' Datum

100.00' Datum

100.00' Datum

100.00' Datum

100.00' Datum

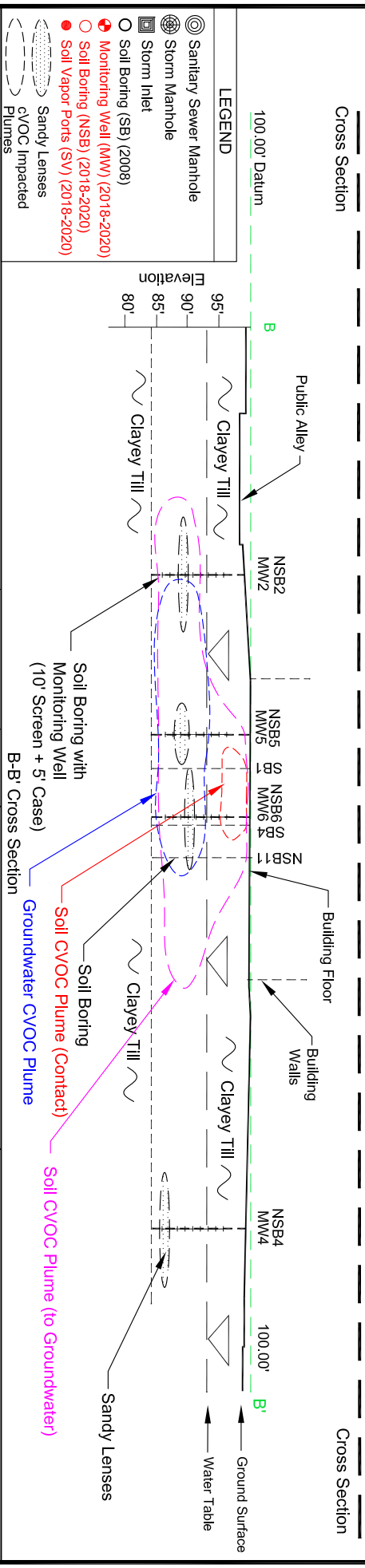
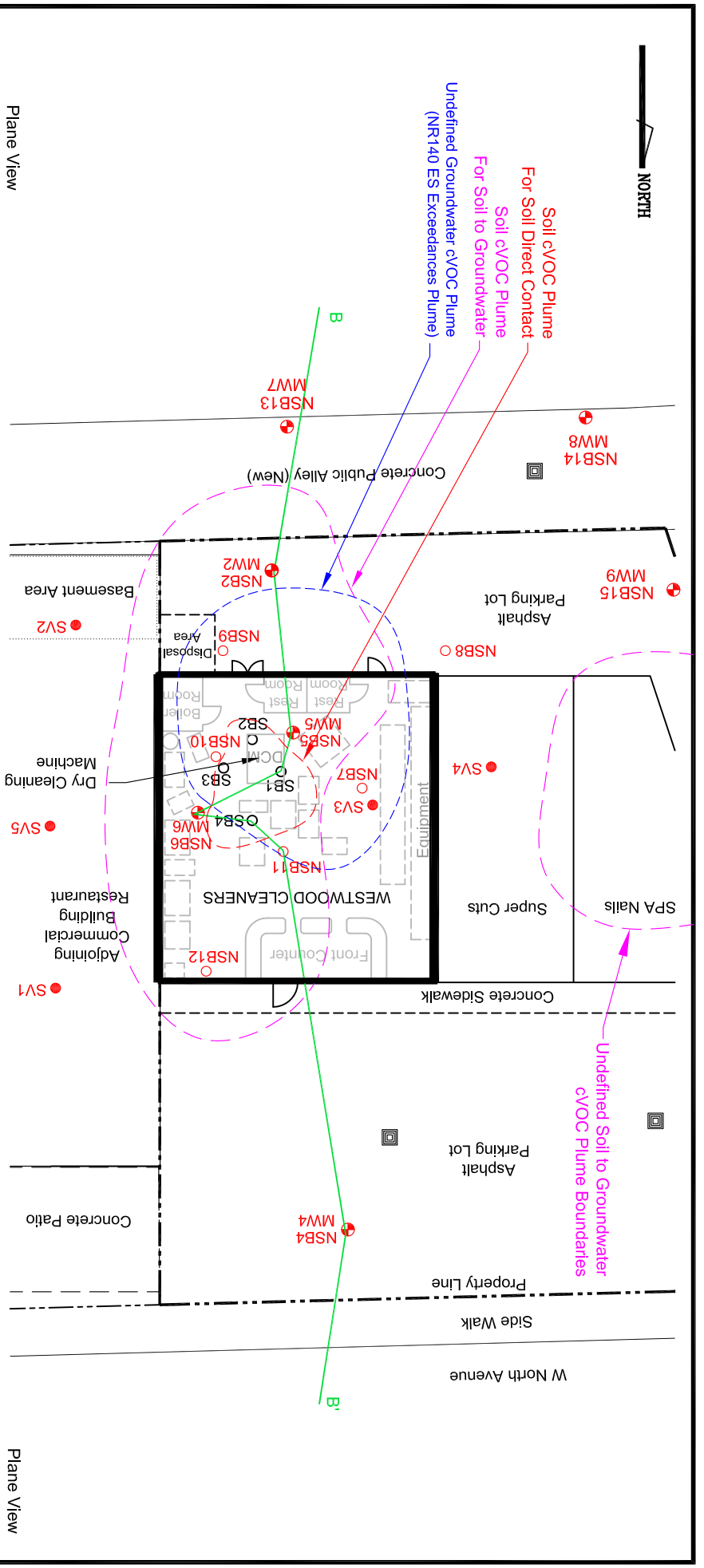
100.00' Datum

100.00' Datum

100.00' Datum

Sanitary Sewer Manhole  
 Storm Manhole  
 Storm Inlet  
 Soil Boring (SB) (2008)  
 Monitoring Well (MW) (2018)  
 Soil Boring (NSB) (2018)  
 Soil Vapor Sample (SV) (2018)  
 Sandy Lenses  
 cVOC Impacted Plumes

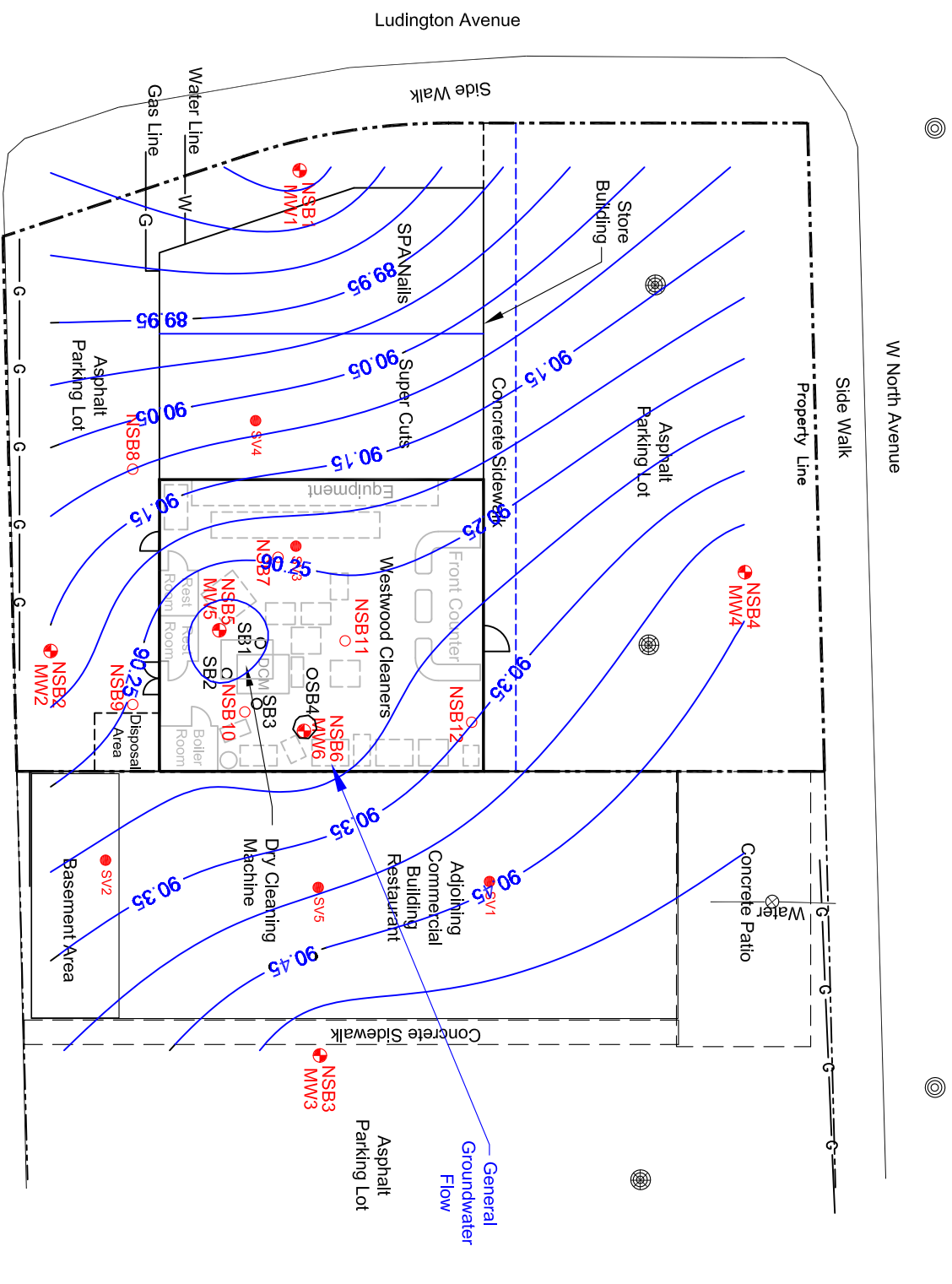




**LEGEND**

- Sanitary Sewer Manhole
- Storm Manhole
- Storm Inlet
- Soil Boring (SB) (2008)
- Soil Boring (SB) (2018-2020)
- Monitoring Well (MW) (2018-2020)
- Soil Boring (NSB) (2018-2020)
- Soil Vapor Ports (SV) (2018-2020)
- Sandy Lenses
- cVOC Impacted Plumes

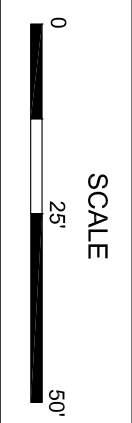
<b>SITE NAME</b>	Westwood Dry Cleaners (#02-41-552537)	<b>FIGURE NO.</b>	4a
<b>FIGURE NAME</b>	B-B' Soil & Groundwater cVOC & Geological Cross Section		
<b>ADDRESS</b>	8731 West North Avenue, Wauwatosa, WI 53226		
<b>SCALE</b>		0 25' 50'	
<b>HYDRODYNAMICS CONSULTANTS, INC.</b>			
5403 Patton Dr., Unit 215, Lisle, IL 60532			
Tel: (630) 724-0098, HydrodynamicsConsultants.com			



**LEGEND**

- ⊙ Sewer Manhole
- ⊙ Storm Sump Manhole
- Soil Boring (SB) (2008)
- ⊕ Monitoring Well (MW)
- Soil Boring (NSB)
- Soil Vapor Sample (SV)

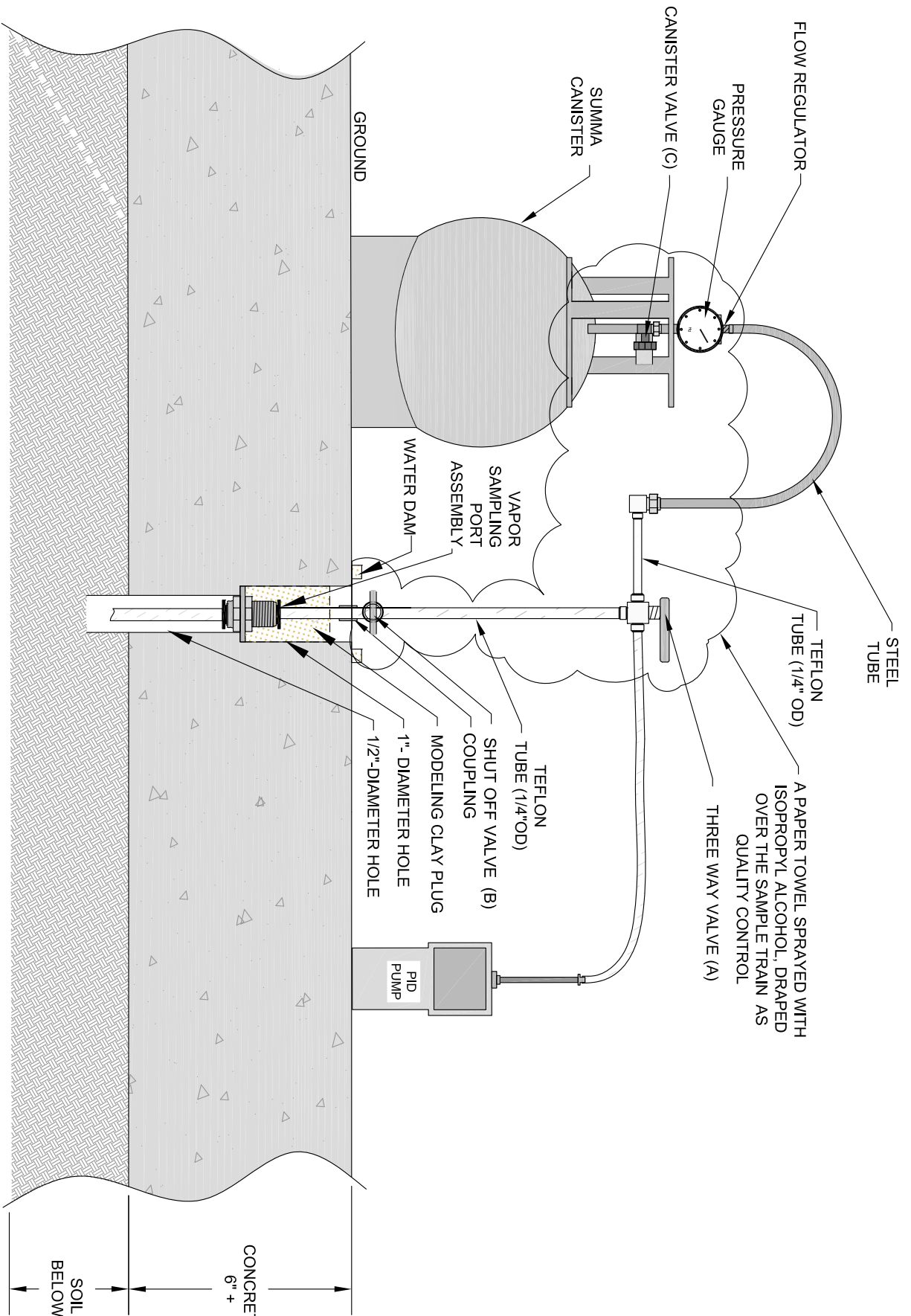
<b>SITE NAME</b>	Westwood Dry Cleaners (#02-41-552537)	<b>FIGURE NO.</b>	4b
<b>FIGURE NAME</b>	Groundwater Table Contour Map (9/19/2018)		
<b>ADDRESS</b>	8731 West North Avenue, Wauwatosa, WI 53226		



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 5403 Patton Dr., Unit 215, Lisle, IL 60532  
 Tel: (630) 724-0098, HydrodynamicsConsultants.com







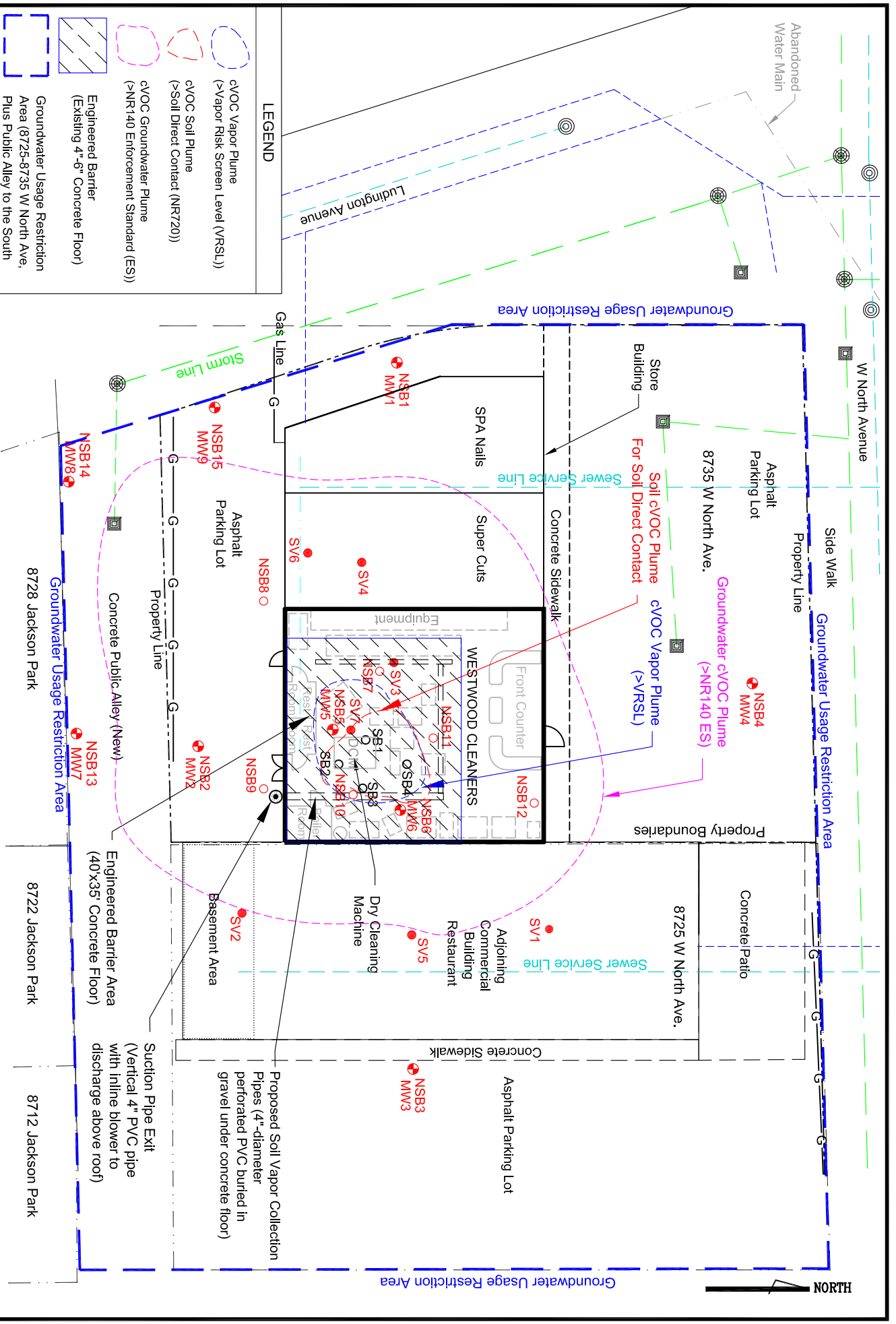
SITE NAME Westwood Dry Cleaners (#02-41-552537) FIGURE NO. 5b

FIGURE NAME Sub-Slab Soil Gas Sampling Diagram

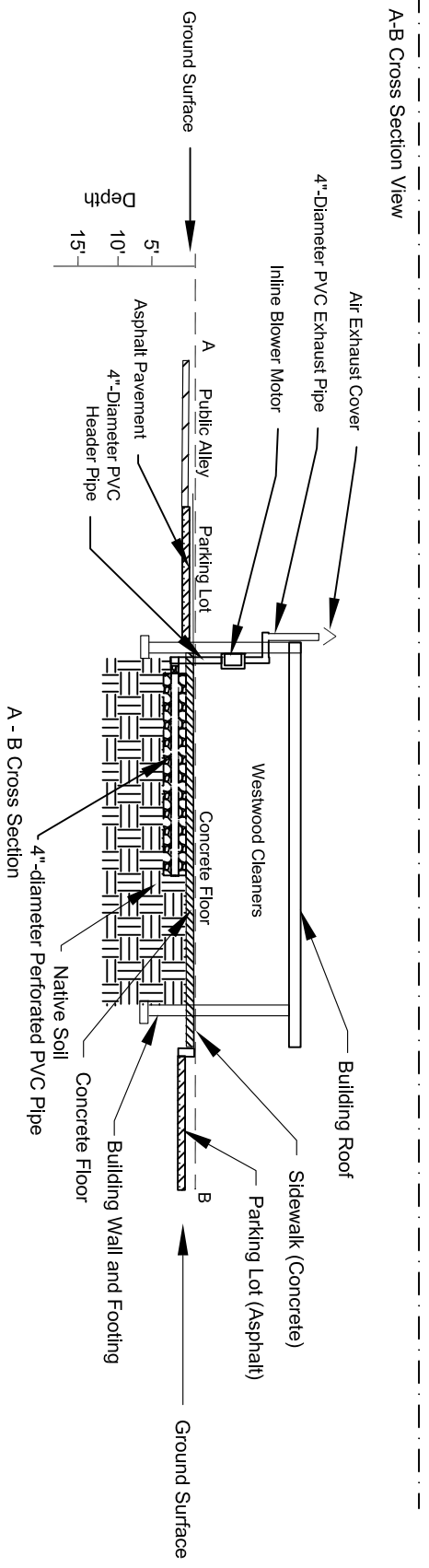
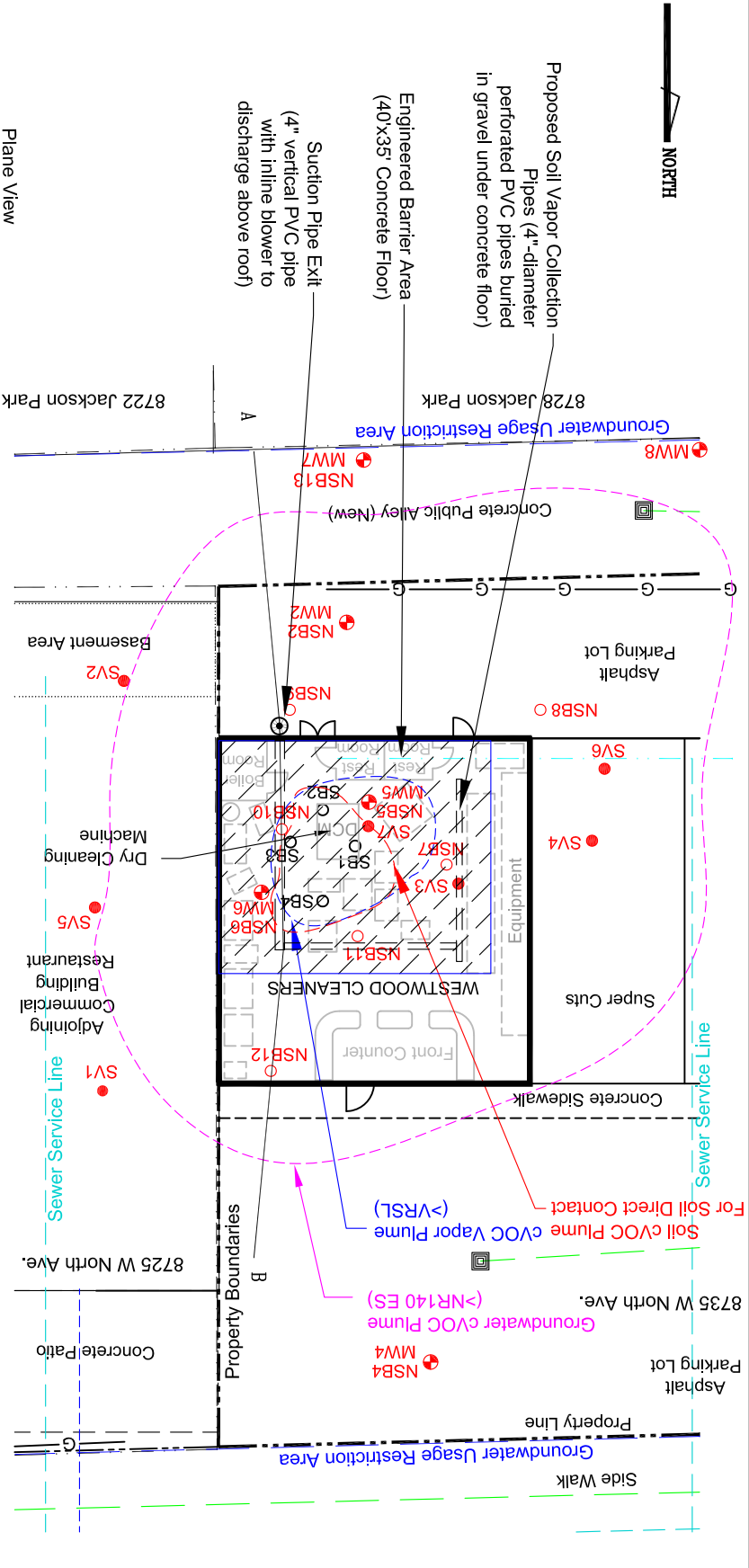
ADDRESS 8731 West North Avenue, Wauwatosa, WI 53226

NOT TO SCALE

**HYDRODYNAMICS CONSULTANTS, INC.**  
 5403 Patton Dr. Unit 215, Lisle, IL 60532  
 Tel: (630) 724-0098



<b>SITE NAME</b>	Westwood Dry Cleaners (#02-41-552537)	<b>FIGURE NO.</b>	6
<b>FIGURE NAME</b>	Site Risk Mitigation and Exposure Prevention System Map	<b>SCALE</b>	0 25' 50'
<b>ADDRESS</b>	8731 West North Avenue, Wauwatosa, WI 53226	<b>HYDRODYNAMICS CONSULTANTS, INC.</b>	5403 Patton Dr., Unit 215, Lisle, IL 60532 Tel: (630) 724-0098, HydrodynamicsConsultants.com



<b>SITE NAME</b>	Westwood Dry Cleaners (#02-41-552537)	<b>FIGURE NO.</b>	6a
<b>FIGURE NAME</b>	Site Risk Mitigation and Exposure Prevention System Cross Section		
<b>ADDRESS</b>	8731 West North Avenue, Wauwatosa, WI 53226		
<b>SCALE</b>		0 25' 50'	
<b>HYDRODYNAMICS CONSULTANTS, INC.</b>			
5403 Patton Dr., Unit 215, Lisle, IL 60532 Tel: (630) 724-0098, HydrodynamicsConsultants.com			

**APPENDIX I**  
**SITE INVESTIGATION PHOTOS**



## Site Investigation Photos



North Side of the Strip Mall Building



South and West Sides of the Strip Mall Building



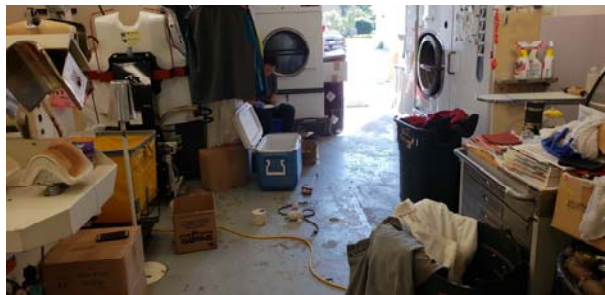
Front View (North Side) of the Drycleaning Store



Back View (South Side) of the Drycleaning Store



Interior of Westwood Cleaners



Interior of Westwood Cleaners



Parking Lot in the Neighboring Restaurant Property



Interior View of the Neighboring Restaurant Property



Sub-Slab Vapor Sampling Port Installation



Sub-Slab Vapor Sampling Port Installation



Installation of Modeling Clay Sealing in Vapor Sampling Port



Connecting Vapor Sampling Train



Sub-Slab Vapor Sampling Train Assembled & Ready for Spraying of Isopropyl Alcohol



Sub-Slab Vapor Sampling Train Covered with Paper Towels Sprayed with Isopropyl Alcohol



Concrete Coring for Soil Borings/Wells



Boring with Probes



Indoor Soil Boring with Probing



Soil Core Head-Space VOC Testing with PID



Installation of Soil Borings with Probing



Installation of Monitoring Wells



Placement of Pressure Transducer/Data Logger for Slug Test



Connecting the Data Logger to Computer to Record the Water Level Change inside the Well after One Large Bailer of Water was Suddenly Removed from the Well

Photos for Additional Site Investigation



Soil Boring and Monitoring Well Installation



Well Development/Purging



Installation of Soil Vapor Sampling Port on Concrete Floor



Finished New Soil Vapor Sampling Port



Water Dam Test for Vapor Port Leakage Check



Purge and Sampling for Sub-Slab Vapor



Spray Isopropyl Alcohol on the Paper Towers over the Sampling Train for Potential Leakage Check (QC)



Sampling in the Basement of the Restaurant Building Next to a Sump Manhole

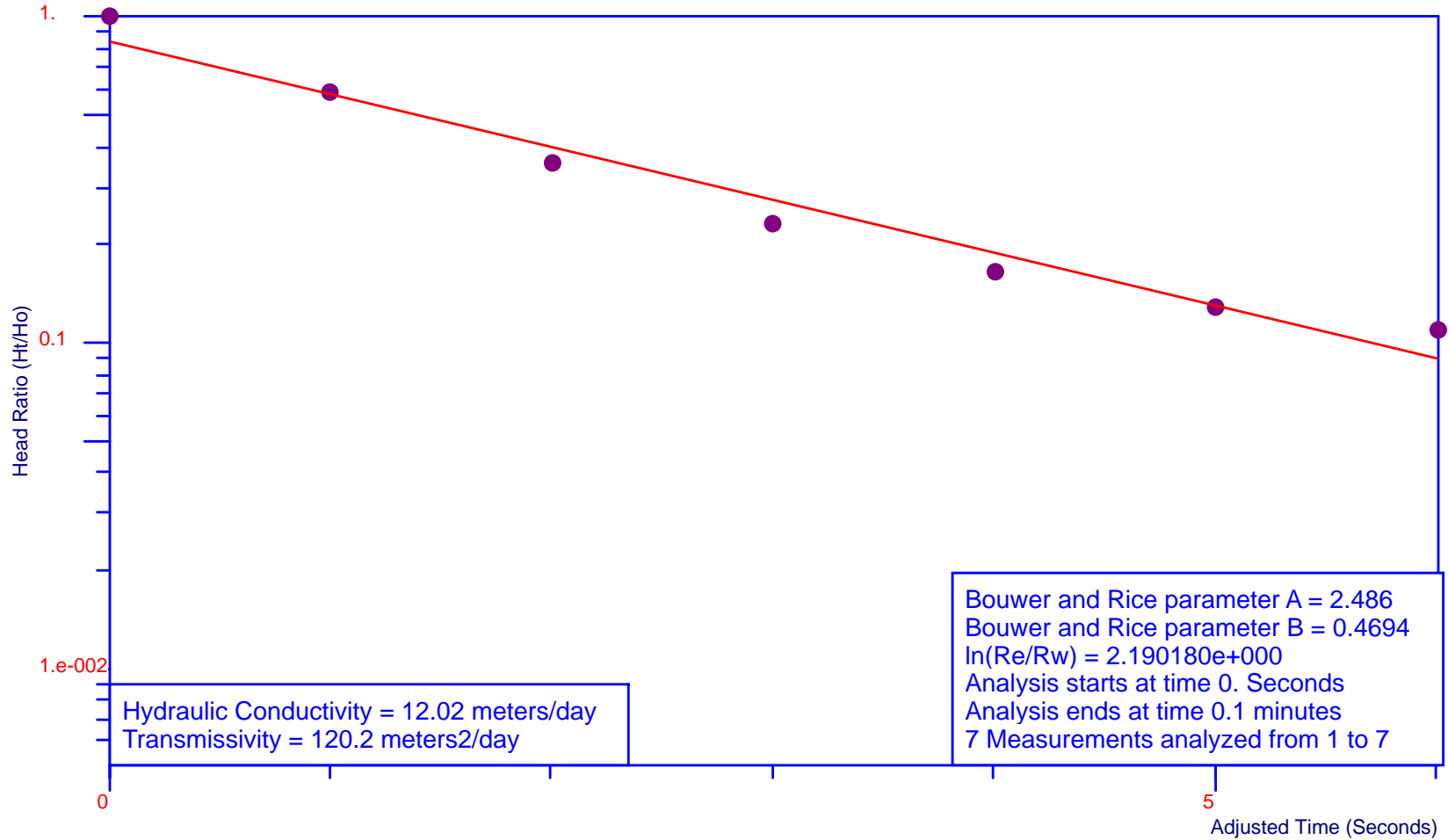
**APPENDIX II**  
**SLUG TEST RESULTS**

# Slug Test Results at MW1 9/19/2018

# Bouwer and Rice Graph

Westwood Cleaners 8731 West North Avenue

MW1



Analysis by Starpoint Software

Ho is 0.2694 Meters at 0. Seconds

## Bouwer and Rice Automatic Parameter Estimation

### Slug Test Results at MW1

Site Name: Westwood Cleaners  
 Location: 8731 West North Avenue  
 Test Date: 9/19/2018

---

Well Label: MW1  
 Aquifer Thickness: 10. Meters  
 Screen Length: 1.912 Meters  
 Casing Radius: 2.5e-002 Meters  
 Effective Radius: 5.7e-002 Meters  
 Bouwer and Rice Parameter A: 2.486  
 Bouwer and Rice Parameter B: 0.4694  
 Radius of Influence of Test: 0.5094 Meters

---

Trial	Adjusted Time (minutes)	Head (Meters)	Head Ratio	Hyd. Con. (meters/day)	Flow to Well (Meters <sup>3</sup> /Day)
1	0.	0.2694	1.	--	
2	1.667e-002	0.16	0.5938	16.12	14.15
3	3.333e-002	9.708e-002	0.3604	15.78	8.404
4	5.e-002	6.242e-002	0.2317	15.07	5.162
5	6.667e-002	4.428e-002	0.1644	13.96	3.391
6	8.333e-002	3.488e-002	0.1295	12.65	2.419
7	0.1	2.943e-002	0.1092	11.41	1.842

#### Arithmetic Means:

Hydraulic Conductivity: 14.17 meters/day  
 Transmissivity: 141.7 meters<sup>2</sup>/day

#### Geometric Means:

Hydraulic Conductivity: 14.06 meters/day  
 Transmissivity: 140.6 meters<sup>2</sup>/day

#### Sensitivity Analysis:

Hydraulic Conductivity: 14.7 meters/day  
 Transmissivity: 147. meters<sup>2</sup>/day

**APPENDIX III**  
**SOIL BORINGS LOGS WITH FIELD PID READINGS**




## SOIL BORING LOG INFORMATION

<b>Project Name:</b> Westwood Cleaners, BRRTS # 02-41-552537			<b>License/Permit/Monitoring No.:</b>			<b>Boring/Well Log Number:</b> NSB1/MW1		
<b>Boring Drilled By:</b> Yinong Han				<b>Start Date:</b> 9/16/2018		<b>Finish Date:</b> 9/16/2018		<b>Drilling Method:</b> GeoProbe
<b>Firm:</b> Hydrodynamics Consultants, Inc.				<b>Final Static Water Level:</b> 8.72 Feet SD		<b>Surface Elevation:</b> <u>98.49</u> * <small>(100 ft. Site Datum (SD)* = 750 ft. MSL)</small>		
<b>WI Unique Well No.:</b>		<b>DNR Well ID No.:</b>		<b>Well Name:</b>		<b>Local Grid Location:</b>		
<b>Local Grid Origin</b> <input type="checkbox"/> Estimated <input checked="" type="checkbox"/> or Boring Location <input type="checkbox"/>				<b>Lat</b> <u>43° 03' 36.9N</u> "		<input type="checkbox"/> N <input type="checkbox"/> E		
State Plan _____ N, _____ E				<b>Long</b> <u>88° 01' 19.30W</u> "		____ Feet <input type="checkbox"/> S ____ Feet <input type="checkbox"/> W		
<b>NE</b> 1/4 of <b>NW</b> 1/4 of Sec <u>21</u> , T <u>07</u> N, R <u>21</u>				<b>Facility ID:</b> 241836100		<b>County:</b> Milwaukee		<b>County Code:</b> 41
						<b>Civil Town/City/or Village:</b> Wauwatosa		
Sample Number	Recovery (%)	Boring Depth (ft)	Soil/Sediment Description	USCS	Graphic Log	Well Diagram	Well Information	PID (ppm)
NSB1-A	80	0 -	Grass				Concrete (0-1.0')	
		1 -	Black topsoil, medium stiff, moist	TO				
		2 -					1" PVC Case (0-5.0')	0
NSB1-B		3 -	Brown clay, medium stiff, moist	CL			Bentonite (1-3.0')	
	92	4 -					Fine Sand (3-4.0')	0
		5 -						
		6 -						0.4
		7 -					1" PVC Screen (5-15.0')	
NSB1-C	95	8 -					▼	1.4
		9 -						
		10 -					Sand Pack (4'-16')	1
		11 -						
	95	12 -						1.1
		13 -		Silty gray sand & gravels, wet	GM			
		14 -		Silty gray clay, medium stiff, wet	CL			0.1
	15 -							
		16 -	End of Boring					0.1
		17 -						
		18 -						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature:

  
Mike (Minghua) Wan, PE

Firm:

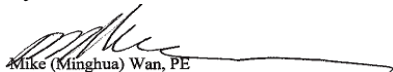
Hydrodynamics Consultants, Inc.

## SOIL BORING LOG INFORMATION

<b>Project Name:</b> Westwood Cleaners, BRRTS # 02-41-552537			<b>License/Permit/Monitoring No.:</b>			<b>Boring/Well Log Number:</b> NSB2/MW2			
<b>Boring Drilled By:</b> Yinong Han				<b>Start Date:</b> 9/16/2018		<b>Finish Date:</b> 9/16/2018		<b>Drilling Method:</b> GeoProbe	
<b>Firm:</b> Hydrodynamics Consultants, Inc.		<b>WI Unique Well No.:</b>		<b>DNR Well ID No.:</b>		<b>Well Name:</b>		<b>Final Static Water Level:</b> 8.97 Feet SD	
						<b>Surface Elevation:</b> <u>99.12</u> * <small>(100 ft. Site Datum (SD)* = 750 ft. MSL)</small>			
<b>Local Grid Origin</b> <input type="checkbox"/> Estimated <input checked="" type="checkbox"/> <b>or Boring Location</b> <input type="checkbox"/>								<b>Local Grid Location:</b>	
State Plan _____ N, _____ E				Lat <u>43° 03' 36.9</u> N "				<input type="checkbox"/> N <input type="checkbox"/> E	
<u>NE</u> 1/4 of <u>NW</u> 1/4 of Sec <u>21</u> , T <u>07</u> N, R <u>21</u>				Long <u>88° 01' 19.30</u> W "				____ Feet <input type="checkbox"/> S ____ Feet <input type="checkbox"/> W	
<b>Facility ID:</b> 241836100			<b>County:</b> Milwaukee		<b>County Code:</b> 41		<b>Civil Town/City/or Village:</b> Wauwatosa		
Sample Number	Recovery (%)	Boring Depth (ft)	Soil/Sediment Description	USCS	Graphic Log	Well Diagram	Well Information	PID (ppm)	
NSB2-A	90	0 -	Asphalt & gravels	CL			Concrete (0-1.0')	0	
		1 -	Brown clay, medium stiff, moist				1" PVC Case (0-5.0')		
		2 -					Bentonite (1-3.0')		
		3 -					Fine Sand (3-4.0')		
NSB2-B	98	4 -		CL			1" PVC Screen (5-15.0')	0	
		5 -							
		6 -							
		7 -							
NSB2-C	100	8 -	Moist to wet	GM CL			Sand Pack (4-16')	0	
		9 -	Silty gray clay, medium stiff, wet						
		10 -							
		11 -	Silty gray sand & gravels, wet						
		12 -	Silty gray clay, medium stiff, wet						
		13 -							
		14 -							
15 -									
16 -		End of Boring							
		17 -						0	
		18 -						0	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature:

  
Mike (Minghua) Wan, PE

Firm:

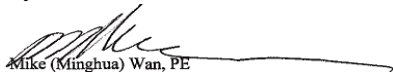
Hydrodynamics Consultants, Inc.

## SOIL BORING LOG INFORMATION

<b>Project Name:</b> Westwood Cleaners, BRRTS # 02-41-552537			<b>License/Permit/Monitoring No.:</b>			<b>Boring/Well Log Number:</b> NSB3/MW3				
<b>Boring Drilled By:</b> Yinong Han				<b>Start Date:</b> 9/16/2018		<b>Finish Date:</b> 9/16/2018		<b>Drilling Method:</b> GeoProbe		
<b>Firm:</b> Hydrodynamics Consultants, Inc.										
<b>WI Unique Well No.:</b>		<b>DNR Well ID No.:</b>		<b>Well Name:</b>		<b>Final Static Water Level:</b> 10.23 Feet SD		<b>Surface Elevation:</b> <u>100.76</u> * <small>(100 ft. Site Datum (SD)* = 750 ft. MSL)</small>		
<b>Local Grid Origin</b> <input type="checkbox"/> Estimated <input checked="" type="checkbox"/> <b>or Boring Location</b> <input type="checkbox"/>								<b>Local Grid Location:</b>		
State Plan _____ N, _____ E				Lat <u>43° 03' 36.9</u> N "				<input type="checkbox"/> N <input type="checkbox"/> E		
<u>NE</u> 1/4 of <u>NW</u> 1/4 of Sec <u>21</u> , T <u>07</u> N, R <u>21</u>				Long <u>88° 01' 19.30</u> W "				____ Feet <input type="checkbox"/> S ____ Feet <input type="checkbox"/> W		
<b>Facility ID:</b> 241836100			<b>County:</b> Milwaukee		<b>County Code:</b> 41		<b>Civil Town/City/or Village:</b> Wauwatosa			
Sample Number	Recovery (%)	Boring Depth (ft)	Soil/Sediment Description	USCS	Graphic Log	Well Diagram	Well Information	PID (ppm)		
NSB3-A	98	0 -	Asphalt & gravels	PA			Concrete (0-1.0')	0		
		1 -	Gravel Fill	GW			1" PVC Case (0-5.0')			
		2 -	Brown silty clay, moist	CL			Bentonite (1-3.0')			
NSB3-B	85	3 -								Fine Sand (3-4.0')
		4 -								
		5 -								
		6 -								
		7 -								
		8 -	Silty brown clay, medium stiff, wet	CL			1" PVC Screen (5-15.0')			
NSB3-C	90	9 -	Moist to wet							
		10 -								
		11 -								
		12 -								
		13 -								
		14 -								
		15 -	Silty fine sand, loose, wet	SM						
NSB3-C	95	16 -	End of Boring							
		17 -								
		18 -								

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature:

  
Mike (Minghua) Wan, PE

Firm:

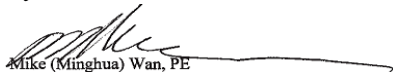
Hydrodynamics Consultants, Inc.

## SOIL BORING LOG INFORMATION

<b>Project Name:</b> Westwood Cleaners, BRRTS # 02-41-552537			<b>License/Permit/Monitoring No.:</b>			<b>Boring/Well Log Number:</b> NSB4/MW4		
<b>Boring Drilled By:</b> Yinong Han				<b>Start Date:</b> 9/16/2018		<b>Finish Date:</b> 9/16/2018		<b>Drilling Method:</b> GeoProbe
<b>Firm:</b> Hydrodynamics Consultants, Inc.		<b>WI Unique Well No.:</b>		<b>DNR Well ID No.:</b>		<b>Well Name:</b>		<b>Final Static Water Level:</b> 8.44 Feet SD
						<b>Surface Elevation:</b> <u>98.88</u> * <small>(100 ft. Site Datum (SD)* = 750 ft. MSL)</small>		
<b>Local Grid Origin</b> <input type="checkbox"/> Estimated <input checked="" type="checkbox"/> or Boring Location <input type="checkbox"/>								<b>Local Grid Location:</b>
State Plan _____ N, _____ E				Lat <u>43° 03' 36.9</u> N "				<input type="checkbox"/> N <input type="checkbox"/> E
<u>NE</u> 1/4 of <u>NW</u> 1/4 of Sec <u>21</u> , T <u>07</u> N, R <u>21</u>				Long <u>88° 01' 19.30</u> W "				____ Feet <input type="checkbox"/> S ____ Feet <input type="checkbox"/> W
<b>Facility ID:</b> 241836100			<b>County:</b> Milwaukee		<b>County Code:</b> 41		<b>Civil Town/City/or Village:</b> Wauwatosa	
Sample Number	Recovery (%)	Boring Depth (ft)	Soil/Sediment Description	USCS	Graphic Log	Well Diagram	Well Information	PID (ppm)
NSB4-A	88	0 -	Asphalt & gravels	PA		Concrete (0-1.0')		
		1 -	Brown clay, medium stiff, moist	CL		1" PVC Case (0-5.0')	0	
		2 -				Bentonite (1-3.0')		
	3 -			Fine Sand (3-4.0')		0		
	95	4 -						
		5 -						
		6 -						
		7 -				1" PVC Screen (5-15.0')		
NSB4-B	95	8 -	Moist to wet				▼	0
		9 -						
		10 -					Sand Pack (4'-16')	0
		11 -						
NSB4-C	98	12 -	Silty gray clay, medium stiff, wet	CL				0
		13 -						
		14 -	Silty gray fine sand, wet	SM				0
		15 -						
		16 -	Silty gray clay, medium stiff, wet. End of Boring	CL				0
		17 -						
		18 -						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature:

  
Mike (Minghua) Wan, PE

Firm:

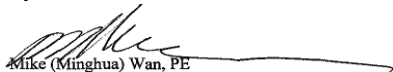
Hydrodynamics Consultants, Inc.

## SOIL BORING LOG INFORMATION

<b>Project Name:</b> Westwood Cleaners, BRRTS # 02-41-552537			<b>License/Permit/Monitoring No.:</b>			<b>Boring/Well Log Number:</b> NSB5/MW5			
<b>Boring Drilled By:</b> Yinong Han				<b>Start Date:</b> 9/16/2018		<b>Finish Date:</b> 9/16/2018		<b>Drilling Method:</b> GeoProbe	
<b>Firm:</b> Hydrodynamics Consultants, Inc.		<b>WI Unique Well No.:</b>		<b>DNR Well ID No.:</b>		<b>Well Name:</b>		<b>Final Static Water Level:</b> 9.61 Feet SD	
						<b>Surface Elevation:</b> <u>99.95</u> * <small>(100 ft. Site Datum (SD)* = 750 ft. MSL)</small>			
<b>Local Grid Origin</b> <input type="checkbox"/> Estimated <input checked="" type="checkbox"/> or Boring Location <input type="checkbox"/>								<b>Local Grid Location:</b>	
State Plan _____ N, _____ E				Lat <u>43° 03' 36.9</u> N "				<input type="checkbox"/> N <input type="checkbox"/> E	
<u>NE</u> 1/4 of <u>NW</u> 1/4 of Sec <u>21</u> , T <u>07</u> N, R <u>21</u>				Long <u>88° 01' 19.30</u> W "				____ Feet <input type="checkbox"/> S ____ Feet <input type="checkbox"/> W	
<b>Facility ID:</b> 241836100			<b>County:</b> Milwaukee		<b>County Code:</b> 41		<b>Civil Town/City/or Village:</b> Wauwatosa		
Sample Number	Recovery (%)	Boring Depth (ft)	Soil/Sediment Description	USCS	Graphic Log	Well Diagram	Well Information	PID (ppm)	
NSB5-A	92	0 -	Concrete & gravels	CO			Concrete (0-1.0')	0.5	
		1 -	Brown clay, medium stiff, moist	CL			1" PVC Case (0-5.0')		
		2 -					Bentonite (1-3.0')		
NSB5-B	95	3 -						Fine Sand (3-4.0')	0.4
		4 -							
		5 -							
		6 -	Moist to wet						
		7 -						1" PVC Screen (5-15.0')	
NSB5-C	100	8 -							2.8
		9 -							
		10 -							
		11 -	Silty gray clay, medium stiff, wet	CL					
		12 -							
		13 -	Silty gray fine sand, wet	SM					
		14 -							
NSB5-C	100	15 -							0.9
		16 -	Silty gray clay, medium stiff, wet. End of Boring	CL					
		17 -							
		18 -							

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature:

  
Mike (Minghua) Wan, PE

Firm:

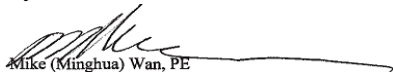
Hydrodynamics Consultants, Inc.

## SOIL BORING LOG INFORMATION

<b>Project Name:</b> Westwood Cleaners, BRRTS # 02-41-552537			<b>License/Permit/Monitoring No.:</b>			<b>Boring/Well Log Number:</b> NSB6/MW6				
<b>Boring Drilled By:</b> Yinong Han				<b>Start Date:</b> 9/16/2018		<b>Finish Date:</b> 9/16/2018		<b>Drilling Method:</b> GeoProbe		
<b>Firm:</b> Hydrodynamics Consultants, Inc.			<b>Final Static Water Level:</b> 9.76 Feet SD			<b>Surface Elevation:</b> <u>100.00</u> * <small>(100 ft. Site Datum (SD)* = 750 ft. MSL)</small>				
<b>WI Unique Well No.:</b>		<b>DNR Well ID No.:</b>		<b>Well Name:</b>		<b>Local Grid Location:</b>				
<b>Local Grid Origin</b> <input type="checkbox"/> Estimated <input checked="" type="checkbox"/> or Boring Location <input type="checkbox"/> State Plan _____ N, _____ E <u>NE</u> 1/4 of <u>NW</u> 1/4 of Sec <u>21</u> , T <u>07</u> N, R <u>21</u>						Lat <u>43° 03' 36.9</u> N "		<input type="checkbox"/> N <input type="checkbox"/> E		
						Long <u>88° 01' 19.30</u> W "		____ Feet <input type="checkbox"/> S ____ Feet <input type="checkbox"/> W		
<b>Facility ID:</b> 241836100			<b>County:</b> Milwaukee		<b>County Code:</b> 41		<b>Civil Town/City/or Village:</b> Wauwatosa			
Sample Number	Recovery (%)	Boring Depth (ft)	Soil/Sediment Description	USCS	Graphic Log	Well Diagram	Well Information	PID (ppm)		
NSB6-A	90	0 -	Concrete & gravels	CO			Concrete (0-1.0')			
		1 -	Brown clay, medium stiff, moist	CL			1" PVC Case (0-5.0')			
		2 -					Bentonite (1-3.0')			
	3 -			Fine Sand (3-4.0')						
NSB6-B	93	4 -								
		5 -								
		6 -	Moist to wet							
		7 -							1" PVC Screen (5-15.0')	
NSB6-C	95	8 -								
		9 -								
		10 -	Silty gray fine sand, wet	SM						Sand Pack (4'-16')
		11 -								
		12 -	Silty gray clay, medium stiff, wet	CL						
	13 -									
	14 -									
	15 -									
	16 -	End of Boring								
	17 -									
	18 -									

I hereby certify that the information on this form is true and correct to the best of my knowledge.



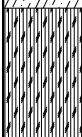

Signature:

  
Mike (Minghua) Wan, PE

Firm:

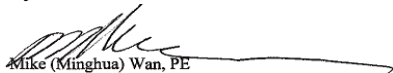
Hydrodynamics Consultants, Inc.

## SOIL BORING LOG INFORMATION

<b>Project Name:</b> Westwood Cleaners, BRRTS # 02-41-552537			<b>License/Permit/Monitoring No.:</b>			<b>Boring/Well Log Number:</b> NSB7		
<b>Boring Drilled By:</b> Yinong Han				<b>Start Date:</b> 9/16/2018		<b>Finish Date:</b> 9/16/2018		<b>Drilling Method:</b> GeoProbe
<b>Firm:</b> Hydrodynamics Consultants, Inc.								
<b>WI Unique Well No.:</b>		<b>DNR Well ID No.:</b>		<b>Well Name:</b>		<b>Final Static Water Level:</b> 6 Feet SD		<b>Surface Elevation:</b> _____* <small>(100 ft. Site Datum (SD)* = 750 ft. MSL)</small>
<b>Local Grid Origin</b> <input type="checkbox"/> Estimated <input checked="" type="checkbox"/> or Boring Location <input type="checkbox"/>								<b>Local Grid Location:</b>
State Plan _____ N, _____ E					Lat <u>43° 03' 36.9</u> N "			<input type="checkbox"/> N <input type="checkbox"/> E
<u>NE</u> 1/4 of <u>NW</u> 1/4 of Sec <u>21</u> , T <u>07</u> N, R <u>21</u>					Long <u>88° 01' 19.30</u> W "			____ Feet <input type="checkbox"/> S ____ Feet <input type="checkbox"/> W
<b>Facility ID:</b> 241836100			<b>County:</b> Milwaukee		<b>County Code:</b> 41		<b>Civil Town/City/or Village:</b> Wauwatosa	
Sample Number	Recovery (%)	Boring Depth (ft)	Soil/Sediment Description	USCS	Graphic Log	Well Diagram	Well Information	PID (ppm)
NSB7-A	89	0 -	Concrete & gravels	CO				
		1 -						
		2 -	Brown clay, medium stiff, moist	CL				1.4
NSB7-B	95	3 -						
		4 -					1.6	
		5 -						
		6 -	Moist to wet				▼	1.7
		7 -						
NSB7-C	100	8 -						2
		9 -						
		10 -	Silty gray fine sand, wet	SM				0.6
		11 -						
NSB7-C	100	12 -	Silty gray clay, medium stiff, wet	CL				0.4
		13 -						
		14 -						0.2
		15 -						
		16 -	End of Boring					0
		17 -						
		18 -						

I hereby certify that the information on this form is true and correct to the best of my knowledge.



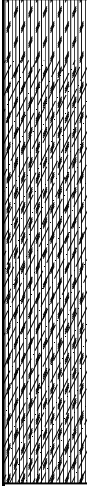
Signature:

  
Mike (Minghua) Wan, PE

Firm:

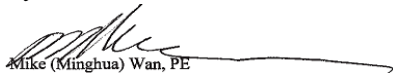
Hydrodynamics Consultants, Inc.

## SOIL BORING LOG INFORMATION

<b>Project Name:</b> Westwood Cleaners, BRRTS # 02-41-552537			<b>License/Permit/Monitoring No.:</b>			<b>Boring/Well Log Number:</b> NSB8		
<b>Boring Drilled By:</b> Yinong Han				<b>Start Date:</b> 9/16/2018		<b>Finish Date:</b> 9/16/2018		<b>Drilling Method:</b> GeoProbe
<b>Firm:</b> Hydrodynamics Consultants, Inc.			<b>Final Static Water Level:</b> 8 Feet SD			<b>Surface Elevation:</b> _____* <small>(100 ft. Site Datum (SD)* = 750 ft. MSL)</small>		
<b>WI Unique Well No.:</b>		<b>DNR Well ID No.:</b>		<b>Well Name:</b>		<b>Local Grid Location:</b>		
<b>Local Grid Origin</b> <input type="checkbox"/> Estimated <input checked="" type="checkbox"/> or Boring Location <input type="checkbox"/>				<b>Lat</b> <u>43° 03' 36.9N</u> "		<input type="checkbox"/> N <input type="checkbox"/> E		
State Plan _____ N, _____ E				<b>Long</b> <u>88° 01' 19.30W</u> "		____ Feet <input type="checkbox"/> S ____ Feet <input type="checkbox"/> W		
<b>NE</b> 1/4 of <b>NW</b> 1/4 of Sec <u>21</u> , T <u>07</u> N, R <u>21</u>								
<b>Facility ID:</b> 241836100			<b>County:</b> Milwaukee		<b>County Code:</b> 41		<b>Civil Town/City/or Village:</b> Wauwatosa	
Sample Number	Recovery (%)	Boring Depth (ft)	Soil/Sediment Description	USCS	Graphic Log	Well Diagram	Well Information	PID (ppm)
NSB8-A	86	0 -	Asphalt & gravels	PA				
		1 -	Brown clay, medium stiff, moist	CL				
		2 -						0.5
		3 -						
NSB8-B	90	4 -						0.6
		5 -						
		6 -						1.1
		7 -						
NSB8-C	90	8 -	Moist to wet				▼	1.7
		9 -						
		10 -	Silty gray fine sand, wet	SM				0.4
		11 -						0.2
	98	12 -					0	
		13 -						
		14 -						0
		15 -						
		16 -	End of Boring					0
		17 -						
		18 -						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature:





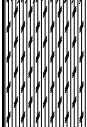

  
Mike (Minghua) Wan, PE

Firm:

Hydrodynamics Consultants, Inc.

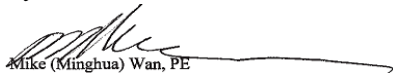


## SOIL BORING LOG INFORMATION

<b>Project Name:</b> Westwood Cleaners, BRRTS # 02-41-552537			<b>License/Permit/Monitoring No.:</b>			<b>Boring/Well Log Number:</b> NSB9			
<b>Boring Drilled By:</b> Yinong Han				<b>Start Date:</b> 9/16/2018		<b>Finish Date:</b> 9/16/2018		<b>Drilling Method:</b> GeoProbe	
<b>Firm:</b> Hydrodynamics Consultants, Inc.			<b>Final Static Water Level:</b> 8 Feet SD			<b>Surface Elevation:</b> _____* <small>(100 ft. Site Datum (SD)* = 750 ft. MSL)</small>			
<b>WI Unique Well No.:</b>		<b>DNR Well ID No.:</b>		<b>Well Name:</b>		<b>Local Grid Location:</b>			
<b>Local Grid Origin</b> <input type="checkbox"/> Estimated <input checked="" type="checkbox"/> or Boring Location <input type="checkbox"/>				<b>Lat</b> <u>43° 03' 36.9N</u> " <b>Long</b> <u>88° 01' 19.30W</u> "		<input type="checkbox"/> N <input type="checkbox"/> E ____ Feet <input type="checkbox"/> S ____ Feet <input type="checkbox"/> W			
State Plan _____ N, _____ E <u>NE</u> 1/4 of <u>NW</u> 1/4 of Sec <u>21</u> , T <u>07</u> N, R <u>21</u>									
<b>Facility ID:</b> 241836100			<b>County:</b> Milwaukee		<b>County Code:</b> 41		<b>Civil Town/City/or Village:</b> Wauwatosa		
Sample Number	Recovery (%)	Boring Depth (ft)	Soil/Sediment Description	USCS	Graphic Log	Well Diagram	Well Information	PID (ppm)	
NSB9-A	85	0 -	Asphalt & gravels	PA					
		1 -	Brown clay, medium stiff, moist	CL				0.9	
		2 -							
	NSB9-B	88	3 -						
4 -								0.5	
5 -									0.5
6 -									
NSB9-C	92	7 -							
		8 -	Moist to wet				▼	0.1	
		9 -							
		10 -	Silty gray fine sand, wet	SM					0.9
NSB9-C	95	11 -							
		12 -	Silty gray clay, medium stiff, wet	CL				0.2	
		13 -							
		14 -							0
		15 -							
		16 -	End of Boring						0
		17 -							
		18 -							

I hereby certify that the information on this form is true and correct to the best of my knowledge.



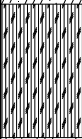

Signature:

  
Mike (Minghua) Wan, PE

Firm:

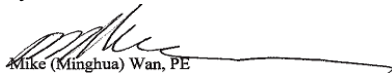
Hydrodynamics Consultants, Inc.

## SOIL BORING LOG INFORMATION

<b>Project Name:</b> Westwood Cleaners, BRRTS # 02-41-552537			<b>License/Permit/Monitoring No.:</b>			<b>Boring/Well Log Number:</b> NSB10		
<b>Boring Drilled By:</b> Yinong Han <b>Firm:</b> Hydrodynamics Consultants, Inc.				<b>Start Date:</b> 9/16/2018		<b>Finish Date:</b> 9/16/2018		<b>Drilling Method:</b> GeoProbe
<b>WI Unique Well No.:</b>		<b>DNR Well ID No.:</b>		<b>Well Name:</b>		<b>Final Static Water Level:</b> 6 Feet SD		<b>Surface Elevation:</b> _____* <small>(100 ft. Site Datum (SD)* = 750 ft. MSL)</small>
<b>Local Grid Origin</b> <input type="checkbox"/> Estimated <input checked="" type="checkbox"/> <b>or Boring Location</b> <input type="checkbox"/> State Plan _____ N, _____ E NE 1/4 of NW 1/4 of Sec 21, T 07 N, R 21					<b>Lat</b> 43° 03' 36.9N" <b>Long</b> 88° 01' 19.30W"		<b>Local Grid Location:</b> <input type="checkbox"/> N <input type="checkbox"/> E ____ Feet <input type="checkbox"/> S ____ Feet <input type="checkbox"/> W	
<b>Facility ID:</b> 241836100			<b>County:</b> Milwaukee		<b>County Code:</b> 41		<b>Civil Town/City/or Village:</b> Wauwatosa	
Sample Number	Recovery (%)	Boring Depth (ft)	Soil/Sediment Description	USCS	Graphic Log	Well Diagram	Well Information	PID (ppm)
NSB10-A	89	0 -	Concrete & gravels	CO				
		1 -	Brown clay, medium stiff, moist	CL				
		2 -						0.3
	3 -							
NSB10-B	93	4 -						0.5
		5 -						
		6 -	Moist to wet				▼	0.7
NSB10-C	100	8 -						0.1
		9 -						
		10 -	Silty gray fine sand, wet	SM				0.2
	100	12 -	Silty gray clay, medium stiff, wet	CL				0.5
		13 -					0	
	14 -						0	
	15 -							
	16 -		End of Boring					0
	17 -							
	18 -							

I hereby certify that the information on this form is true and correct to the best of my knowledge.



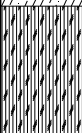

Signature:

  
Mike (Minghua) Wan, PE

Firm:

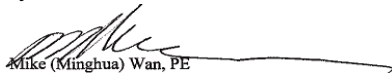
Hydrodynamics Consultants, Inc.

## SOIL BORING LOG INFORMATION

<b>Project Name:</b> Westwood Cleaners, BRRTS # 02-41-552537			<b>License/Permit/Monitoring No.:</b>			<b>Boring/Well Log Number:</b> NSB11			
<b>Boring Drilled By:</b> Yinong Han				<b>Start Date:</b> 9/16/2018		<b>Finish Date:</b> 9/16/2018		<b>Drilling Method:</b> GeoProbe	
<b>Firm:</b> Hydrodynamics Consultants, Inc.			<b>WI Unique Well No.:</b>			<b>DNR Well ID No.:</b>		<b>Well Name:</b>	
			<b>Final Static Water Level:</b> 6 Feet SD			<b>Surface Elevation:</b> _____* <small>(100 ft. Site Datum (SD)* = 750 ft. MSL)</small>			
<b>Local Grid Origin</b> <input type="checkbox"/> Estimated <input checked="" type="checkbox"/> <b>or Boring Location</b> <input type="checkbox"/>								<b>Local Grid Location:</b>	
State Plan _____ N, _____ E				Lat <u>43</u> ° <u>03</u> ' <u>36.9</u> N "				<input type="checkbox"/> N <input type="checkbox"/> E	
<u>NE</u> 1/4 of <u>NW</u> 1/4 of Sec <u>21</u> , T <u>07</u> N, R <u>21</u>				Long <u>88</u> ° <u>01</u> ' <u>19.30</u> W "				____ Feet <input type="checkbox"/> S ____ Feet <input type="checkbox"/> W	
<b>Facility ID:</b> 241836100			<b>County:</b> Milwaukee		<b>County Code:</b> 41		<b>Civil Town/City/or Village:</b> Wauwatosa		
Sample Number	Recovery (%)	Boring Depth (ft)	Soil/Sediment Description	USCS	Graphic Log	Well Diagram	Well Information	PID (ppm)	
NSB11-A	90	0 -	Concrete & gravels	CO					
		1 -	Brown clay, medium stiff, moist	CL				0.1	
		2 -							
	3 -								
NSB11-B	95	4 -						0.1	
		5 -							
		6 -	Moist to wet				▼	0.5	
		7 -							
NSB11-C	100	8 -						0.1	
		9 -							
		10 -	Silty gray fine sand, wet	SM				0.1	
		11 -							
	100	12 -	Silty gray clay, medium stiff, wet	CL			0.1		
		13 -							
		14 -					0		
		15 -							
		16 -	End of Boring				0		
		17 -							
		18 -							

I hereby certify that the information on this form is true and correct to the best of my knowledge.



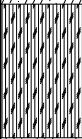

Signature:

  
Mike (Minghua) Wan, PE

Firm:

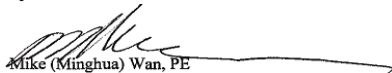
Hydrodynamics Consultants, Inc.

## SOIL BORING LOG INFORMATION

<b>Project Name:</b> Westwood Cleaners, BRRTS # 02-41-552537			<b>License/Permit/Monitoring No.:</b>			<b>Boring/Well Log Number:</b> NSB12			
<b>Boring Drilled By:</b> Yinong Han <b>Firm:</b> Hydrodynamics Consultants, Inc.				<b>Start Date:</b> 9/16/2018		<b>Finish Date:</b> 9/16/2018		<b>Drilling Method:</b> GeoProbe	
<b>WI Unique Well No.:</b>		<b>DNR Well ID No.:</b>		<b>Well Name:</b>		<b>Final Static Water Level:</b> 6 Feet SD		<b>Surface Elevation:</b> _____* <small>(100 ft. Site Datum (SD)* = 750 ft. MSL)</small>	
<b>Local Grid Origin</b> <input type="checkbox"/> Estimated <input checked="" type="checkbox"/> <b>or Boring Location</b> <input type="checkbox"/> State Plan _____ N, _____ E <u>NE</u> 1/4 of <u>NW</u> 1/4 of Sec <u>21</u> , T <u>07</u> N, R <u>21</u>					<b>Lat</b> <u>43° 03' 36.9N</u> "		<b>Local Grid Location:</b> <input type="checkbox"/> N <input type="checkbox"/> E ____ Feet <input type="checkbox"/> S ____ Feet <input type="checkbox"/> W		
<b>Facility ID:</b> 241836100			<b>County:</b> Milwaukee		<b>County Code:</b> 41		<b>Civil Town/City/or Village:</b> Wauwatosa		
Sample Number	Recovery (%)	Boring Depth (ft)	Soil/Sediment Description	USCS	Graphic Log	Well Diagram	Well Information	PID (ppm)	
NSB12-A	89	0 -	Concrete & gravels	CO					
		1 -							
		2 -	Brown clay, medium stiff, moist	CL				0	
NSB12-B	96	3 -							
		4 -						0	
		5 -							
		6 -	Moist to wet				▼	0	
		7 -							
NSB12-C	100	8 -						0	
		9 -							
		10 -	Silty gray fine sand, wet	SM				0	
		11 -							
		100	12 -	Silty gray clay, medium stiff, wet	CL				0
			13 -					0	
			14 -					0	
		15 -							
		16 -	End of Boring					0	
		17 -							
		18 -							

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature:

  
Mike (Minghua) Wan, PE

Firm:

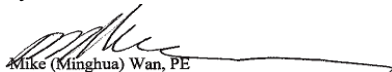
Hydrodynamics Consultants, Inc.

## SOIL BORING LOG INFORMATION

<b>Project Name:</b> Westwood Cleaners, BRRTS # 02-41-552537			<b>License/Permit/Monitoring No.:</b>			<b>Boring/Well Log Number:</b> NSB13/MW7		
<b>Boring Drilled By:</b> Yinong Han <b>Firm:</b> Hydrodynamics Consultants, Inc.				<b>Start Date:</b> 7/28/2020		<b>Finish Date:</b> 7/28/2020		<b>Drilling Method:</b> GeoProbe
<b>WI Unique Well No.:</b>		<b>DNR Well ID No.:</b>		<b>Well Name:</b>		<b>Final Static Water Level:</b> 8 Feet SD		<b>Surface Elevation:</b> _____* <small>(100 ft. Site Datum (SD)* = 750 ft. MSL)</small>
<b>Local Grid Origin</b> <input type="checkbox"/> Estimated <input checked="" type="checkbox"/> <b>or Boring Location</b> <input type="checkbox"/> State Plan _____ N, _____ E <u>NE</u> 1/4 of <u>NW</u> 1/4 of Sec <u>21</u> , T <u>07</u> N, R <u>21</u>					<b>Lat</b> <u>43° 03' 36.9N</u> "		<b>Local Grid Location:</b> <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
<b>Facility ID:</b> 241836100			<b>County:</b> Milwaukee		<b>County Code:</b> 41		<b>Civil Town/City/or Village:</b> Wauwatosa	
Sample Number	Recovery (%)	Boring Depth (ft)	Soil/Sediment Description	USCS	Graphic Log	Well Diagram	Well Information	PID (ppm)
NSB13-A	70	0 -	Concrete & gravels	CO			Concrete (0-1.0')	
		1 -						
		2 -	Silty gray clay, medium stiff, moist	CL			1" PVC Case (0-5.0')	0
		3 -					Bentonite (1-3.0')	
	90	4 -					Fine Sand (3-4.0')	0
		5 -	Silty brown clay, medium stiff, moist					
		6 -						0
		7 -					1" PVC Screen (5-15.0')	
NSB13-B	85	8 -	Wet					0
		9 -						
		10 -	Silty fine gray sand, wet	SM			Sand Pack (4'-16')	0
		11 -						
	85	12 -						0
		13 -						
		14 -	Silty gray clay, stiff, wet	CL				0
		15 -						
NSB13-C		16 -	End of Boring					0
		17 -						
		18 -						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature:

  
Mike (Minghua) Wan, PE

Firm:

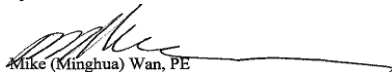
Hydrodynamics Consultants, Inc.

## SOIL BORING LOG INFORMATION

<b>Project Name:</b> Westwood Cleaners, BRRTS # 02-41-552537			<b>License/Permit/Monitoring No.:</b>			<b>Boring/Well Log Number:</b> NSB14/MW8					
<b>Boring Drilled By:</b> Yinong Han <b>Firm:</b> Hydrodynamics Consultants, Inc.				<b>Start Date:</b> 7/28/2020		<b>Finish Date:</b> 7/28/2020		<b>Drilling Method:</b> GeoProbe			
<b>WI Unique Well No.:</b>		<b>DNR Well ID No.:</b>		<b>Well Name:</b>		<b>Final Static Water Level:</b> 8 Feet SD		<b>Surface Elevation:</b> _____* <small>(100 ft. Site Datum (SD)* = 750 ft. MSL)</small>			
<b>Local Grid Origin</b> <input type="checkbox"/> Estimated <input checked="" type="checkbox"/> <b>or Boring Location</b> <input type="checkbox"/> State Plan _____ N, _____ E <u>NE</u> 1/4 of <u>NW</u> 1/4 of Sec <u>21</u> , T <u>07</u> N, R <u>21</u>					<b>Local Grid Location:</b> Lat <u>43</u> ° <u>03</u> ' <u>36.9</u> N" Long <u>88</u> ° <u>01</u> ' <u>19.30</u> W" <input type="checkbox"/> N <input type="checkbox"/> E ____ Feet <input type="checkbox"/> S ____ Feet <input type="checkbox"/> W						
<b>Facility ID:</b> 241836100		<b>County:</b> Milwaukee		<b>County Code:</b> 41		<b>Civil Town/City/or Village:</b> Wauwatosa					
Sample Number	Recovery (%)	Boring Depth (ft)	Soil/Sediment Description	USCS	Graphic Log	Well Diagram	Well Information	PID (ppm)			
NSB14-A	75	0 -	Concrete & gravels	CO			Concrete (0-1.0')	0			
		1 -					1" PVC Case (0-5.0')				
		2 -	Silty gray clay, medium stiff, moist	CL			Bentonite (1-3.0')				
	3 -			Fine Sand (3-4.0')							
	90	4 -									
		5 -									
		6 -	Silty brown clay, medium stiff, moist								
		7 -									
NSB14-B	85	8 -	Wet							1" PVC Screen (5-15.0')	
		9 -								▼	
		10 -	Silty gray sand with gravel, wet	SM						Sand Pack (4'-16')	
		11 -									
	85	12 -									
		13 -									
		14 -	Silty gray clay, stiff, wet	CL							
		15 -									
NSB14-C		16 -	End of Boring								
		17 -									
		18 -									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature:

  
Mike (Minghua) Wan, PE

Firm:

Hydrodynamics Consultants, Inc.

## SOIL BORING LOG INFORMATION

<b>Project Name:</b> Westwood Cleaners, BRRTS # 02-41-552537			<b>License/Permit/Monitoring No.:</b>			<b>Boring/Well Log Number:</b> NSB15/MW9		
<b>Boring Drilled By:</b> Yinong Han <b>Firm:</b> Hydrodynamics Consultants, Inc.				<b>Start Date:</b> 7/28/2020		<b>Finish Date:</b> 7/28/2020		<b>Drilling Method:</b> GeoProbe
<b>WI Unique Well No.:</b>		<b>DNR Well ID No.:</b>		<b>Well Name:</b>		<b>Final Static Water Level:</b> 8 Feet SD		<b>Surface Elevation:</b> _____* <small>(100 ft. Site Datum (SD)* = 750 ft. MSL)</small>
<b>Local Grid Origin</b> <input type="checkbox"/> Estimated <input checked="" type="checkbox"/> <b>or Boring Location</b> <input type="checkbox"/> <b>State Plan</b> _____ N, _____ E <b>NE</b> 1/4 of <b>NW</b> 1/4 of Sec <b>21</b> , <b>T 07</b> N, <b>R 21</b>					<b>Lat</b> <u>43° 03' 36.9N</u> " <b>Long</b> <u>88° 01' 19.30W</u> "		<b>Local Grid Location:</b> <input type="checkbox"/> N <input type="checkbox"/> E ____ Feet <input type="checkbox"/> S ____ Feet <input type="checkbox"/> W	
<b>Facility ID:</b> 241836100		<b>County:</b> Milwaukee		<b>County Code:</b> 41		<b>Civil Town/City/or Village:</b> Wauwatosa		
Sample Number	Recovery (%)	Boring Depth (ft)	Soil/Sediment Description	USCS	Graphic Log	Well Diagram	Well Information	PID (ppm)
NSB15-A	70	0 -	Asphalt & gravels	CO			Concrete (0-1.0')	
		1 -						
		2 -	Silty gray clay, medium stiff, moist	CL			1" PVC Case (0-5.0') Bentonite (1-3.0') Fine Sand (3-4.0')	0
	95	4 -						0
NSB15-B		5 -						
		6 -						0
		7 -					1" PVC Screen (5-15.0')	
	90	8 -	Wet					0
NSB15-C		9 -						
		10 -	Fine gray sand, wet	SM			Sand Pack (4'-16')	0
	85	12 -						0
		13 -	Silty gray clay, stiff, wet	CL				
		14 -						0
		15 -						
	16 -	End of Boring						0
	17 -							
	18 -							

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature:

Mike (Minghua) Wan, PE

Firm:

Hydrodynamics Consultants, Inc.

**APPENDIX IV**  
**MONITORING WELL CONSTRUCTION AND**  
**DEVELOPMENT LOGS**



## MONITORING WELL CONSTRUCTION

<b>Project Name:</b> Westwood Cleaners, BRRTS # 02-41-552537		<b>Local Grid Location:</b> <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S      Feet <input type="checkbox"/> W		<b>Well Name:</b> MW1	<b>Elevation:</b> 100 ft. Site Datum* = 705 ft. MSL
<b>License/Permit/Monitoring No.:</b>		<b>Local Grid Origin</b> <input type="checkbox"/> Estimated <input checked="" type="checkbox"/> or <b>Well Location</b> <input type="checkbox"/> Lat <u>43</u> ° <u>03</u> ' <u>36.9N</u> "    Long <u>88</u> ° <u>01</u> ' <u>19.30W</u> "		<b>Wis. Unique Well No.:</b>	<b>DNR Well ID No.:</b>
<b>Facility ID:</b> 241836100		<b>State Plan</b> _____ N, _____ E		<b>Date Well Installed:</b> 9/16/18	
<b>Type of Well:</b> Well Code <u>11</u> / <u>MW</u>		<b>Section Location of Waste/Source:</b> <u>NE</u> 1/4 of <u>NW</u> 1/4 of Sec <u>21</u> , T <u>07</u> N, R <u>21</u> <input type="checkbox"/> W		<b>Well Installed By: Name (first, last) and Firm:</b> Yinong Han Hydrodynamics Consultants, Inc.	
<b>Distance from Waste/Source:</b> ≈ 75 ft.	<b>Enf. Stds. Apply:</b> <input type="checkbox"/>	<b>Location of Well Relative to Waste/Source:</b> u <input type="checkbox"/> Upgrade    s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient    n <input type="checkbox"/> Not Known	<b>Gov. Lot Number:</b>		

Note: All elevations are site datum\*

<p>A. Land surface, elevation      <u>98.59</u> ft.</p> <p>B. Protective pipe, top elevation      <u>98.49</u> ft.</p> <p>C. Well Casing, top elevation      <u>98.29</u> ft.</p> <p>D. Surface seal, bottom      <u>97.49</u> ft.</p> <p>E. Bentonite seal, top      <u>97.49</u> ft.</p> <p>F. Fine sand, top      <u>95.49</u> ft.</p> <p>G. Filter pack, top      <u>94.49</u> ft.</p> <p>H. Screen joint, top      <u>93.49</u> ft.</p>		<p>1. Cap and lock?      <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe:  a. Inside diameter:      <u>6</u> in.  b. Length:      <u>9</u> in.  c. Material:      Steel <input type="checkbox"/> 0 4                                  <u>HD PVC</u>      Other <input checked="" type="checkbox"/>  d. Additional protection?      <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  If yes, describe: _____</p> <p>3. Surface seal:      Bentonite <input type="checkbox"/> 3 0                                  Concrete <input checked="" type="checkbox"/> 0 1                                  Other <input type="checkbox"/> _____</p> <p>4. Material between well casing and protective pipe:      Bentonite <input type="checkbox"/> 3 0    <u>None</u>      Other <input checked="" type="checkbox"/> _____</p> <p>5. Bentonite seal (Annular space seal):    a. Bentonite granules <input type="checkbox"/> 3 3    b. <input checked="" type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in.      Bentonite chips <input checked="" type="checkbox"/> 3 2    c. <u>Water Added</u>      Other <input checked="" type="checkbox"/> _____</p> <p>6. Annular space seal:    a. Granular/Chipped Bentonite <input type="checkbox"/> 3 3    b. _____ lbs/gal mud weight...Bentonite-sand slurry <input type="checkbox"/> 3 5    c. _____ lbs/gal mud weight.....Bentonite slurry <input type="checkbox"/> 3 1    d. _____ % Bentonite.....Bentonite-cement grout <input type="checkbox"/> 5 0    e. _____ ft³ volume added for any of the above  f. How installed:      Tremie <input type="checkbox"/> 0 1    Tremie pumped <input type="checkbox"/> 0 2    Gravity <input checked="" type="checkbox"/> 0 8</p> <p>7. Fine sand material: Manufacturer, product name &amp; mesh size  a. <u>NSF, Silica Sand/Bluestone - 100 Mesh</u>  b. Volume added: _____ ft³</p> <p>8. Filter pack material: Manufacturer, product name &amp; mesh size  a. <u>NSF, Silica Sand/Bluestone - 20-40 meshes</u>  b. Volume added: _____ ft³</p> <p>9. Well casing:      Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 3                                  Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4                                  Other <input type="checkbox"/> _____</p> <p>10. Screen Material:      <u>PVC</u>  a. Screen type:      Factory Cut <input checked="" type="checkbox"/> 1 1                                  Continuous Slot <input type="checkbox"/> 0 1                                  Other <input type="checkbox"/> _____  b. Manufacturer      <u>Johnson</u>  c. Slot size:      <u>0.01</u> in.  d. Slotted Length:      <u>10</u> ft.</p> <p>11. Backfill material (below filter pack):      None <input type="checkbox"/> 1 4    <u>Silica Sand</u>      Other <input checked="" type="checkbox"/> _____</p>
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12. USCS classification of soil near screen:  
 GP  GM  GC  GW  SW  SP  
 SM  SC  ML  MH  CL  CH  
Bedrock

13. Sieve analysis preformed?       Yes  No

14. Drilling method used:      Rotary  5 0  
  Hollow Stem Auger  4 1  
  GeoProbe      Other  \_\_\_\_\_

15. Drilling fluid used:    Water  0 2      Air  0 1  
  Drilling Mud  0 3      None  9 9

16. Drilling additives used?       Yes  No

17. Source of water (attach analysis, if required):

I. Well bottom      83.49 ft.

J. Filter pack, bottom      82.49 ft.

K. Borehole, bottom      82.49 ft.

L. Borehole, diameter      4.50 in.

M. O.D. well casing      2.25 in.

N. I.D. well casing      2.00 in.

<b>I hereby certify that the information on this form is true and correct to the best of my knowledge.</b>	
<b>Signature:</b>  Mike (Minghua) Wan, PE	<b>Firm:</b> Hydrodynamics Consultants, Inc.

## MONITORING WELL DEVELOPMENT

<b>Project Name:</b> Westwood Cleaners, BRRTS # 02-41-552537	<b>County Name:</b> Milwaukee	<b>Well Name:</b> MW1	
<b>License/Permit/Monitoring No.:</b>	<b>County Code:</b> 41	<b>Wis. Unique Well No.:</b>	<b>DNR Well ID No.:</b>

1. Can this well be purged dry?  Yes  No

2. Well development method

surged with bailer and bailed	<input checked="" type="checkbox"/>	4 1
surged with bailer and pumped	<input type="checkbox"/>	6 1
surged with block and bailed	<input type="checkbox"/>	4 2
surged with block and pumped	<input type="checkbox"/>	6 2
surged with block, bailed and pumped	<input type="checkbox"/>	7 0
compressed air	<input type="checkbox"/>	2 0
bailed only	<input type="checkbox"/>	1 0
pumped only	<input type="checkbox"/>	5 1
pumped slowly	<input type="checkbox"/>	5 0
Other: _____	<input type="checkbox"/>	_____

3. Time spent developing well \_\_\_\_\_ ≈ 30 min.

4. Depth of well (from top of well casing) \_\_\_\_\_ 15 ft.

5. Inside Diameter of well \_\_\_\_\_ 2 in.

6. Volume of water in filter pack and well casing \_\_\_\_\_ gal.

7. Volume of water removed from well \_\_\_\_\_ 4 gal.

8. Volume of water added (if any) \_\_\_\_\_ gal.


9. Source of water added \_\_\_\_\_

10. Analysis performed on water added?  Yes  No  
(If yes, attach results)

	<u>Before Development</u>	<u>After Development</u>
11. Depth of Water (from top of well casing)	8.72 ft.	12.72 ft.
Date	09/19/2018	09/19/2018
Time	10:10 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	10:40 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM
12. Sediment in well bottom	_____ in.	_____ in.
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input type="checkbox"/> 1 5	Clear <input type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5
(Describe)	_____	_____
	_____	_____
	_____	_____
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l

16. Well developed by: Name (first, last) and Firm  
 First Name: Mike Last Name: Wan  
 Firm: Hydrodynamics Consultants, Inc.

17. Additional comments on development:

<b>Name and Address of Facility Contact/Owner/Responsible Party</b>	<b>I hereby certify that the information on this form is true and correct to the best of my knowledge.</b>
First: Mr. Dong Last: Sin Facility/Firm: Westwood Cleaners Street: 8731 West North Avenue City/State/Zip: Wauwatosa, Wisconsin 53226	Signature:  Print Name: Mike (Minghua) Wan, PE Firm: Hydrodynamics Consultants, Inc.

# MONITORING WELL CONSTRUCTION

<b>Project Name:</b> Westwood Cleaners, BRRTS # 02-41-552537		<b>Local Grid Location:</b> <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S Feet <input type="checkbox"/> W		<b>Well Name:</b> MW2	<b>Elevation:</b> 100 ft. Site Datum* = 705 ft. MSL
<b>License/Permit/Monitoring No.:</b>		<b>Local Grid Origin</b> <input type="checkbox"/> Estimated <input checked="" type="checkbox"/> or Well Location <input type="checkbox"/> Lat <u>43</u> ° <u>03</u> ' <u>36.9N</u> " Long <u>88</u> ° <u>01</u> ' <u>19.30W</u> "		<b>Wis. Unique Well No.:</b>	<b>DNR Well ID No.:</b>
<b>Facility ID:</b> 241836100		<b>Section Location of Waste/Source:</b> <input checked="" type="checkbox"/> E <u>NE</u> 1/4 of <u>NW</u> 1/4 of Sec <u>21</u> , T <u>07</u> N, R <u>21</u> <input type="checkbox"/> W		<b>Date Well Installed:</b> 9/16/18	
<b>Type of Well:</b> Well Code <u>11</u> / <u>MW</u>		<b>Location of Well Relative to Waste/Source:</b> u <input type="checkbox"/> Upgrade s <input checked="" type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		<b>Well Installed By: Name (first, last) and Firm:</b> Yinong Han Hydrodynamics Consultants, Inc.	
<b>Distance from Waste/Source:</b> ≈ 25 ft.	<b>Enf. Stds. Apply:</b> <input type="checkbox"/>	<b>Gov. Lot Number:</b>			

Note: All elevations are site datum\*

<p>A. Land surface, elevation <u>99.22</u> ft.</p> <p>B. Protective pipe, top elevation <u>99.12</u> ft.</p> <p>C. Well Casing, top elevation <u>98.92</u> ft.</p> <p>D. Surface seal, bottom <u>98.12</u> ft.</p> <p>E. Bentonite seal, top <u>98.12</u> ft.</p> <p>F. Fine sand, top <u>96.12</u> ft.</p> <p>G. Filter pack, top <u>95.12</u> ft.</p> <p>H. Screen joint, top <u>94.12</u> ft.</p> <p>I. Well bottom <u>84.12</u> ft.</p> <p>J. Filter pack, bottom <u>83.12</u> ft.</p> <p>K. Borehole, bottom <u>83.12</u> ft.</p> <p>L. Borehole, diameter <u>2.00</u> in.</p> <p>M. O.D. well casing <u>1.25</u> in.</p> <p>N. I.D. well casing <u>1.00</u> in.</p>		<p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe:                  a. Inside diameter: <u>6</u> in.                  b. Length: <u>9</u> in.                  c. Material: <u>HD PVC</u> Steel <input type="checkbox"/> 0 4 Other <input checked="" type="checkbox"/>                  d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                  If yes, describe: _____</p> <p>3. Surface seal: <u>Bentonite</u> Bentonite <input type="checkbox"/> 3 0 Concrete <input checked="" type="checkbox"/> 0 1 Other <input type="checkbox"/> <u>None</u> Other <input checked="" type="checkbox"/></p> <p>4. Material between well casing and protective pipe: <u>None</u> Bentonite <input type="checkbox"/> 3 0 Other <input checked="" type="checkbox"/></p> <p>5. Bentonite seal (Annular space seal):                  a. Bentonite granules <input type="checkbox"/> 3 3                  b. <input checked="" type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 3 2                  c. <u>Water Added</u> Other <input checked="" type="checkbox"/></p> <p>6. Annular space seal:                  a. Granular/Chipped Bentonite <input type="checkbox"/> 3 3                  b. _____ lbs/gal mud weight...Bentonite-sand slurry <input type="checkbox"/> 3 5                  c. _____ lbs/gal mud weight.....Bentonite slurry <input type="checkbox"/> 3 1                  d. _____ % Bentonite.....Bentonite-cement grout <input type="checkbox"/> 5 0                  e. _____ ft<sup>3</sup> volume added for any of the above                  f. How installed: Tremie <input type="checkbox"/> 0 1 Tremie pumped <input type="checkbox"/> 0 2 Gravity <input checked="" type="checkbox"/> 0 8</p> <p>7. Fine sand material: Manufacturer, product name &amp; mesh size                  a. <u>NSF, Silica Sand/Bluestone - 100 Mesh</u>                  b. Volume added: _____ ft<sup>3</sup></p> <p>8. Filter pack material: Manufacturer, product name &amp; mesh size                  a. <u>NSF, Silica Sand/Bluestone - 20-40 meshes</u>                  b. Volume added: _____ ft<sup>3</sup></p> <p>9. Well casing: <u>Flush threaded PVC schedule 40</u> <input checked="" type="checkbox"/> 2 3 <u>Flush threaded PVC schedule 80</u> <input type="checkbox"/> 2 4 Other <input type="checkbox"/></p> <p>10. Screen Material: <u>PVC</u>                  a. Screen type: <u>Factory Cut</u> <input checked="" type="checkbox"/> 1 1 <u>Continuous Slot</u> <input type="checkbox"/> 0 1 Other <input type="checkbox"/>                  b. Manufacturer <u>Johnson</u>                  c. Slot size: <u>0.01</u> in.                  d. Slotted Length: <u>10</u> ft.</p> <p>11. Backfill material (below filter pack): <u>Silica Sand</u> None <input type="checkbox"/> 1 4 Other <input checked="" type="checkbox"/></p>
---	--	--

12. USCS classification of soil near screen:  
 GP  GM  GC  GW  SW  SP  
 SM  SC  ML  MH  CL  CH  
 Bedrock

13. Sieve analysis preformed?  Yes  No

14. Drilling method used:  
 Rotary  5 0  
 Hollow Stem Auger  4 1  
GeoProbe Other

15. Drilling fluid used: Water  0 2 Air  0 1  
 Drilling Mud  0 3 None  9 9

16. Drilling additives used?  Yes  No

17. Source of water (attach analysis, if required):

**I hereby certify that the information on this form is true and correct to the best of my knowledge.**

Signature: Mike (Minghua) Wan, PE

Firm: Hydrodynamics Consultants, Inc.

## MONITORING WELL DEVELOPMENT

<b>Project Name:</b> Westwood Cleaners, BRRTS # 02-41-552537	<b>County Name:</b> Milwaukee	<b>Well Name:</b> MW2	
<b>License/Permit/Monitoring No.:</b>	<b>County Code:</b> 41	<b>Wis. Unique Well No.:</b>	<b>DNR Well ID No.:</b>

1. Can this well be purged dry?  Yes  No

2. Well development method

surged with bailer and bailed	<input checked="" type="checkbox"/>	4 1
surged with bailer and pumped	<input type="checkbox"/>	6 1
surged with block and bailed	<input type="checkbox"/>	4 2
surged with block and pumped	<input type="checkbox"/>	6 2
surged with block, bailed and pumped	<input type="checkbox"/>	7 0
compressed air	<input type="checkbox"/>	2 0
bailed only	<input type="checkbox"/>	1 0
pumped only	<input type="checkbox"/>	5 1
pumped slowly	<input type="checkbox"/>	5 0
Other: _____	<input type="checkbox"/>	_____

3. Time spent developing well \_\_\_\_\_ ≈ 30 min.

4. Depth of well (from top of well casing) \_\_\_\_\_ 15 ft.

5. Inside Diameter of well \_\_\_\_\_ 1 in.

6. Volume of water in filter pack and well casing \_\_\_\_\_ gal.

7. Volume of water removed from well \_\_\_\_\_ 0.5 gal.

8. Volume of water added (if any) \_\_\_\_\_ gal.

9. Source of water added \_\_\_\_\_

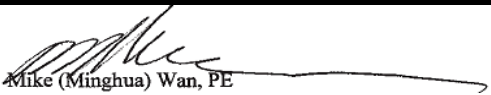
10. Analysis performed on water added?  Yes  No  
(If yes, attach results)

	<u>Before Development</u>	<u>After Development</u>
11. Depth of Water (from top of well casing)	8.97 ft.	12.97 ft.
Date	09/19/2018	09/19/2018
Time	10:40 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	11:10 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM
12. Sediment in well bottom	_____ in.	_____ in.
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input type="checkbox"/> 1 5	Clear <input type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5
	(Describe) _____	(Describe) _____
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l

16. Well developed by: Name (first, last) and Firm  
 First Name: Mike Last Name: Wan  
 Firm: Hydrodynamics Consultants, Inc.

17. Additional comments on development:

The well was basically dried.

<b>Name and Address of Facility Contact/Owner/Responsible Party</b>	<b>I hereby certify that the information on this form is true and correct to the best of my knowledge.</b>
First: Mr. Dong Last: Sin Facility/Firm: Westwood Cleaners Street: 8731 West North Avenue City/State/Zip: Wauwatosa, Wisconsin 53226	Signature:  Print Name: Mike (Minghua) Wan, PE Firm: Hydrodynamics Consultants, Inc.

# MONITORING WELL CONSTRUCTION

<b>Project Name:</b> Westwood Cleaners, BRRTS # 02-41-552537		<b>Local Grid Location:</b> <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S Feet <input type="checkbox"/> W		<b>Well Name:</b> MW3	<b>Elevation:</b> 100 ft. Site Datum* = 705 ft. MSL
<b>License/Permit/Monitoring No.:</b>		<b>Local Grid Origin</b> <input type="checkbox"/> Estimated <input checked="" type="checkbox"/> or Well Location <input type="checkbox"/> Lat <u>43</u> ° <u>03</u> ' <u>36.9N</u> " Long <u>88</u> ° <u>01</u> ' <u>19.30W</u> "		<b>Wis. Unique Well No.:</b>	<b>DNR Well ID No.:</b>
<b>Facility ID:</b> 241836100		<b>State Plan</b> _____ N, _____ E		<b>Date Well Installed:</b> 9/16/18	
<b>Type of Well:</b> Well Code <u>11</u> / <u>MW</u>		<b>Section Location of Waste/Source:</b> <u>NE</u> 1/4 of <u>NW</u> 1/4 of Sec <u>21</u> , T <u>07</u> N, R <u>21</u> <input type="checkbox"/> E <input type="checkbox"/> W		<b>Well Installed By: Name (first, last) and Firm:</b> Yinong Han Hydrodynamics Consultants, Inc.	
<b>Distance from Waste/Source:</b> ≈ 70 ft.	<b>Enf. Stds. Apply:</b> <input type="checkbox"/>	<b>Location of Well Relative to Waste/Source:</b> u <input checked="" type="checkbox"/> Upgrade    s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient    n <input type="checkbox"/> Not Known		<b>Gov. Lot Number:</b>	

Note: All elevations are site datum\*

<p>A. Land surface, elevation <u>100.86</u> ft.</p> <p>B. Protective pipe, top elevation <u>100.76</u> ft.</p> <p>C. Well Casing, top elevation <u>100.56</u> ft.</p> <p>D. Surface seal, bottom <u>99.76</u> ft.</p> <p>E. Bentonite seal, top <u>99.76</u> ft.</p> <p>F. Fine sand, top <u>97.76</u> ft.</p> <p>G. Filter pack, top <u>96.76</u> ft.</p> <p>H. Screen joint, top <u>95.76</u> ft.</p>		<p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe:                  a. Inside diameter: <u>6</u> in.                  b. Length: <u>9</u> in.                  c. Material: <u>HD PVC</u>                  Steel <input type="checkbox"/> 0 4                  Other <input checked="" type="checkbox"/>                  d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                  If yes, describe: _____</p> <p>3. Surface seal: <u>Bentonite</u> <input type="checkbox"/> 3 0                  Concrete <input checked="" type="checkbox"/> 0 1                  Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe: <u>None</u> <input type="checkbox"/> 3 0                  Other <input checked="" type="checkbox"/></p> <p>5. Bentonite seal (Annular space seal):                  a. Bentonite granules <input type="checkbox"/> 3 3                  b. <input checked="" type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 3 2                  c. <u>Water Added</u> <input type="checkbox"/> Other <input checked="" type="checkbox"/></p> <p>6. Annular space seal:                  a. Granular/Chipped Bentonite <input type="checkbox"/> 3 3                  b. _____ lbs/gal mud weight...Bentonite-sand slurry <input type="checkbox"/> 3 5                  c. _____ lbs/gal mud weight.....Bentonite slurry <input type="checkbox"/> 3 1                  d. _____ % Bentonite.....Bentonite-cement grout <input type="checkbox"/> 5 0                  e. _____ ft³ volume added for any of the above                  f. How installed: Tremie <input type="checkbox"/> 0 1                  Tremie pumped <input type="checkbox"/> 0 2                  Gravity <input checked="" type="checkbox"/> 0 8</p> <p>7. Fine sand material: Manufacturer, product name &amp; mesh size                  a. <u>NSF, Silica Sand/Bluestone - 100 Mesh</u>                  b. Volume added: _____ ft³</p> <p>8. Filter pack material: Manufacturer, product name &amp; mesh size                  a. <u>NSF, Silica Sand/Bluestone - 20-40 meshes</u>                  b. Volume added: _____ ft³</p> <p>9. Well casing: <u>Flush threaded PVC schedule 40</u> <input checked="" type="checkbox"/> 2 3                  Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4                  Other <input type="checkbox"/></p> <p>10. Screen Material: <u>PVC</u>                  a. Screen type: <u>Factory Cut</u> <input checked="" type="checkbox"/> 1 1                  Continuous Slot <input type="checkbox"/> 0 1                  Other <input type="checkbox"/>                  b. Manufacturer <u>Johnson</u>                  c. Slot size: <u>0.01</u> in.                  d. Slotted Length: <u>10</u> ft.</p> <p>11. Backfill material (below filter pack): <u>Silica Sand</u> <input type="checkbox"/> 1 4                  Other <input checked="" type="checkbox"/></p>
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12. USCS classification of soil near screen:  
 GP  GM  GC  GW  SW  SP  
 SM  SC  ML  MH  CL  CH  
 Bedrock

13. Sieve analysis preformed?  Yes  No

14. Drilling method used: Rotary  5 0  
 Hollow Stem Auger  4 1  
GeoProbe  Other

15. Drilling fluid used: Water  0 2 Air  0 1  
 Drilling Mud  0 3 None  9 9

16. Drilling additives used?  Yes  No

17. Source of water (attach analysis, if required):

I. Well bottom	<u>84.76</u> ft.
J. Filter pack, bottom	<u>84.76</u> ft.
K. Borehole, bottom	<u>84.76</u> ft.
L. Borehole, diameter	<u>2.00</u> in.
M. O.D. well casing	<u>1.25</u> in.
N. I.D. well casing	<u>1.00</u> in.

<b>I hereby certify that the information on this form is true and correct to the best of my knowledge.</b>	
Signature:	Firm: <u>Hydrodynamics Consultants, Inc.</u>

# MONITORING WELL DEVELOPMENT

<b>Project Name:</b> Westwood Cleaners, BRRTS # 02-41-552537	<b>County Name:</b> Milwaukee	<b>Well Name:</b> MW3	
<b>License/Permit/Monitoring No.:</b>	<b>County Code:</b> 41	<b>Wis. Unique Well No.:</b>	<b>DNR Well ID No.:</b>

1. Can this well be purged dry?  Yes  No

2. Well development method
- surged with bailer and bailed  4 1
  - surged with bailer and pumped  6 1
  - surged with block and bailed  4 2
  - surged with block and pumped  6 2
  - surged with block, bailed and pumped  7 0
  - compressed air  2 0
  - bailed only  1 0
  - pumped only  5 1
  - pumped slowly  5 0
  - Other:  \_\_\_\_\_

3. Time spent developing well \_\_\_\_\_ ≈ 30 min.

4. Depth of well (from top of well casing) \_\_\_\_\_ 15 ft.

5. Inside Diameter of well \_\_\_\_\_ 1 in.

6. Volume of water in filter pack and well casing \_\_\_\_\_ gal.

7. Volume of water removed from well \_\_\_\_\_ 0.5 gal.

8. Volume of water added (if any) \_\_\_\_\_ gal.

9. Source of water added \_\_\_\_\_


10. Analysis performed on water added?  Yes  No  
(If yes, attach results)

	<u>Before Development</u>	<u>After Development</u>
11. Depth of Water (from top of well casing)	10.23 ft.	14.23 ft.
Date	09/19/2018	09/19/2018
Time	10:55 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	11:25 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM
12. Sediment in well bottom	_____ in.	_____ in.
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input type="checkbox"/> 1 5	Clear <input type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5
(Describe)	_____	_____
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l

16. Well developed by: Name (first, last) and Firm  
 First Name: Mike Last Name: Wan  
 Firm: Hydrodynamics Consultants, Inc.

17. Additional comments on development:

The well was basically dried.

<b>Name and Address of Facility Contact/Owner/Responsible Party</b>	<b>I hereby certify that the information on this form is true and correct to the best of my knowledge.</b>
First: Mr. Dong Last: Sin Facility/Firm: Westwood Cleaners Street: 8731 West North Avenue City/State/Zip: Wauwatosa, Wisconsin 53226	Signature:  Print Name: Mike (Minghua) Wan, PE Firm: Hydrodynamics Consultants, Inc.

# MONITORING WELL CONSTRUCTION

<b>Project Name:</b> Westwood Cleaners, BRRTS # 02-41-552537		<b>Local Grid Location:</b> <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S Feet <input type="checkbox"/> W		<b>Well Name:</b> MW4	<b>Elevation:</b> 100 ft. Site Datum* = 705 ft. MSL
<b>License/Permit/Monitoring No.:</b>		<b>Local Grid Origin</b> <input type="checkbox"/> Estimated <input checked="" type="checkbox"/> or Well Location <input type="checkbox"/> Lat <u>43</u> ° <u>03</u> ' <u>36.9N</u> " Long <u>88</u> ° <u>01</u> ' <u>19.30W</u> "		<b>Wis. Unique Well No.:</b>	<b>DNR Well ID No.:</b>
<b>Facility ID:</b> 241836100		<b>State Plan</b> _____ N, _____ E		<b>Date Well Installed:</b> 9/16/18	
<b>Type of Well:</b> Well Code <u>11</u> / <u>MW</u>		<b>Section Location of Waste/Source:</b> <u>NE</u> 1/4 of <u>NW</u> 1/4 of Sec <u>21</u> , T <u>07</u> N, R <u>21</u> <input type="checkbox"/> E <input type="checkbox"/> W		<b>Well Installed By: Name (first, last) and Firm:</b> Yinong Han Hydrodynamics Consultants, Inc.	
<b>Distance from Waste/Source:</b> ≈ 85 ft.	<b>Enf. Stds. Apply:</b> <input type="checkbox"/>	<b>Location of Well Relative to Waste/Source:</b> u <input type="checkbox"/> Upgrade    s <input checked="" type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient    n <input type="checkbox"/> Not Known		<b>Gov. Lot Number:</b>	

Note: All elevations are site datum\*

<p>A. Land surface, elevation <u>98.98</u> ft.</p> <p>B. Protective pipe, top elevation <u>98.88</u> ft.</p> <p>C. Well Casing, top elevation <u>98.68</u> ft.</p> <p>D. Surface seal, bottom <u>97.88</u> ft.</p> <p>E. Bentonite seal, top <u>97.88</u> ft.</p> <p>F. Fine sand, top <u>95.88</u> ft.</p> <p>G. Filter pack, top <u>94.88</u> ft.</p> <p>H. Screen joint, top <u>93.88</u> ft.</p>		<p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe:                  a. Inside diameter: <u>6</u> in.                  b. Length: <u>9</u> in.                  c. Material: <u>HD PVC</u>                  Steel <input type="checkbox"/> 0 4                  Other <input checked="" type="checkbox"/>                  d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                  If yes, describe: _____</p> <p>3. Surface seal: <u>Bentonite</u> <input type="checkbox"/> 3 0                  Concrete <input checked="" type="checkbox"/> 0 1                  Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe: <u>None</u> <input type="checkbox"/> 3 0                  Other <input checked="" type="checkbox"/></p> <p>5. Bentonite seal (Annular space seal):                  a. Bentonite granules <input type="checkbox"/> 3 3                  b. <input checked="" type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 3 2                  c. <u>Water Added</u> <input type="checkbox"/> Other <input checked="" type="checkbox"/></p> <p>6. Annular space seal:                  a. Granular/Chipped Bentonite <input type="checkbox"/> 3 3                  b. _____ lbs/gal mud weight...Bentonite-sand slurry <input type="checkbox"/> 3 5                  c. _____ lbs/gal mud weight.....Bentonite slurry <input type="checkbox"/> 3 1                  d. _____ % Bentonite.....Bentonite-cement grout <input type="checkbox"/> 5 0                  e. _____ ft³ volume added for any of the above                  f. How installed: Tremie <input type="checkbox"/> 0 1                  Tremie pumped <input type="checkbox"/> 0 2                  Gravity <input checked="" type="checkbox"/> 0 8</p> <p>7. Fine sand material: Manufacturer, product name &amp; mesh size                  a. <u>NSF, Silica Sand/Bluestone - 100 Mesh</u>                  b. Volume added: _____ ft³</p> <p>8. Filter pack material: Manufacturer, product name &amp; mesh size                  a. <u>NSF, Silica Sand/Bluestone - 20-40 meshes</u>                  b. Volume added: _____ ft³</p> <p>9. Well casing: <u>Flush threaded PVC schedule 40</u> <input checked="" type="checkbox"/> 2 3                  Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4                  Other <input type="checkbox"/></p> <p>10. Screen Material: <u>PVC</u>                  a. Screen type: <u>Factory Cut</u> <input checked="" type="checkbox"/> 1 1                  Continuous Slot <input type="checkbox"/> 0 1                  Other <input type="checkbox"/>                  b. Manufacturer <u>Johnson</u>                  c. Slot size: <u>0.01</u> in.                  d. Slotted Length: <u>10</u> ft.</p> <p>11. Backfill material (below filter pack): <u>Silica Sand</u> <input type="checkbox"/> 1 4                  Other <input checked="" type="checkbox"/></p>
<p>12. USCS classification of soil near screen:  <input type="checkbox"/> GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP  <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input checked="" type="checkbox"/> CL <input type="checkbox"/> CH                  Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis preformed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 5 0                  Hollow Stem Auger <input type="checkbox"/> 4 1                  GeoProbe <input type="checkbox"/> Other <input checked="" type="checkbox"/></p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1                  Drilling Mud <input type="checkbox"/> 0 3 None <input checked="" type="checkbox"/> 9 9</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>17. Source of water (attach analysis, if required):</p>		
<p>I. Well bottom <u>83.88</u> ft.</p> <p>J. Filter pack, bottom <u>82.88</u> ft.</p> <p>K. Borehole, bottom <u>82.88</u> ft.</p> <p>L. Borehole, diameter <u>2.00</u> in.</p> <p>M. O.D. well casing <u>1.25</u> in.</p> <p>N. I.D. well casing <u>1.00</u> in.</p>		

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Mike (Minghua) Wan, PE	Firm: Hydrodynamics Consultants, Inc.
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## MONITORING WELL DEVELOPMENT

<b>Project Name:</b> Westwood Cleaners, BRRTS # 02-41-552537	<b>County Name:</b> Milwaukee	<b>Well Name:</b> MW4	
<b>License/Permit/Monitoring No.:</b>	<b>County Code:</b> 41	<b>Wis. Unique Well No.:</b>	<b>DNR Well ID No.:</b>

1. Can this well be purged dry?  Yes  No

2. Well development method

surged with bailer and bailed	<input checked="" type="checkbox"/>	4 1
surged with bailer and pumped	<input type="checkbox"/>	6 1
surged with block and bailed	<input type="checkbox"/>	4 2
surged with block and pumped	<input type="checkbox"/>	6 2
surged with block, bailed and pumped	<input type="checkbox"/>	7 0
compressed air	<input type="checkbox"/>	2 0
bailed only	<input type="checkbox"/>	1 0
pumped only	<input type="checkbox"/>	5 1
pumped slowly	<input type="checkbox"/>	5 0
Other: _____	<input type="checkbox"/>	_____

3. Time spent developing well \_\_\_\_\_ ≈ 30 min.

4. Depth of well (from top of well casing) \_\_\_\_\_ 15 ft.

5. Inside Diameter of well \_\_\_\_\_ 1 in.

6. Volume of water in filter pack and well casing \_\_\_\_\_ gal.

7. Volume of water removed from well \_\_\_\_\_ 0.5 gal.

8. Volume of water added (if any) \_\_\_\_\_ gal.

9. Source of water added \_\_\_\_\_

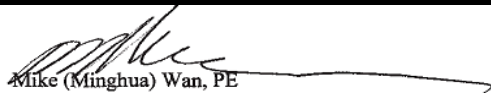
10. Analysis performed on water added?  Yes  No  
(If yes, attach results)

	<u>Before Development</u>	<u>After Development</u>
11. Depth of Water (from top of well casing)	8.44 ft.	12.44 ft.
Date	09/19/2018	09/19/2018
Time	11:30 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	12:00 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM
12. Sediment in well bottom	_____ in.	_____ in.
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input type="checkbox"/> 1 5	Clear <input type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5
	(Describe) _____	(Describe) _____
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l

16. Well developed by: Name (first, last) and Firm  
 First Name: Mike Last Name: Wan  
 Firm: Hydrodynamics Consultants, Inc.

17. Additional comments on development:

The well was basically dried.

<b>Name and Address of Facility Contact/Owner/Responsible Party</b>	<b>I hereby certify that the information on this form is true and correct to the best of my knowledge.</b>
First: Mr. Dong Last: Sin Facility/Firm: Westwood Cleaners Street: 8731 West North Avenue City/State/Zip: Wauwatosa, Wisconsin 53226	Signature:  Print Name: Mike (Minghua) Wan, PE Firm: Hydrodynamics Consultants, Inc.



## MONITORING WELL CONSTRUCTION

<b>Project Name:</b> Westwood Cleaners, BRRTS # 02-41-552537		<b>Local Grid Location:</b> Feet <input type="checkbox"/> N      Feet <input type="checkbox"/> E <input type="checkbox"/> S      Feet <input type="checkbox"/> W		<b>Well Name:</b> MW5	<b>Elevation:</b> 100 ft. Site Datum* = 705 ft. MSL
<b>License/Permit/Monitoring No.:</b>		<b>Local Grid Origin</b> <input type="checkbox"/> Estimated <input checked="" type="checkbox"/> or Well Location <input type="checkbox"/> Lat <u>43</u> ° <u>03</u> ' <u>36.9N</u> "    Long <u>88</u> ° <u>01</u> ' <u>19.30W</u> "		<b>Wis. Unique Well No.:</b>	<b>DNR Well ID No.:</b>
<b>Facility ID:</b> 241836100		<b>State Plan</b> _____ N, _____ E		<b>Date Well Installed:</b> 9/16/18	
<b>Type of Well:</b> Well Code <u>11</u> / <u>MW</u>		<b>Section Location of Waste/Source:</b> _____ <input checked="" type="checkbox"/> E _____ <u>NE</u> 1/4 of <u>NW</u> 1/4 of Sec <u>21</u> , T <u>07</u> N, R <u>21</u> _____ <input type="checkbox"/> W		<b>Well Installed By: Name (first, last) and Firm:</b> Yinong Han Hydrodynamics Consultants, Inc.	
<b>Distance from Waste/Source:</b> ≈ 5 ft.	<b>Enf. Stds. Apply:</b> <input type="checkbox"/>	<b>Location of Well Relative to Waste/Source:</b> u <input type="checkbox"/> Upgrade    s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient    n <input type="checkbox"/> Not Known		<b>Gov. Lot Number:</b> _____	

Note: All elevations are site datum\*

A. Land surface, elevation

B. Protective pipe, top elevation

C. Well Casing, top elevation

D. Surface seal, bottom

E. Bentonite seal, top

F. Fine sand, top

G. Filter pack, top

H. Screen joint, top

12. USCS classification of soil near screen:

GP    GM    GC    GW    SW    SP  
 SM    SC    ML    MH    CL    CH  
 Bedrock

13. Sieve analysis performed?       Yes    No

14. Drilling method used:

Rotary  5 0  
     Hollow Stem Auger  4 1  
     GeoProbe \_\_\_\_\_ Other

15. Drilling fluid used:    Water  0 2    Air  0 1  
                                Drilling Mud  0 3    None  9 9

16. Drilling additives used?       Yes    No

17. Source of water (attach analysis, if required):

I. Well bottom

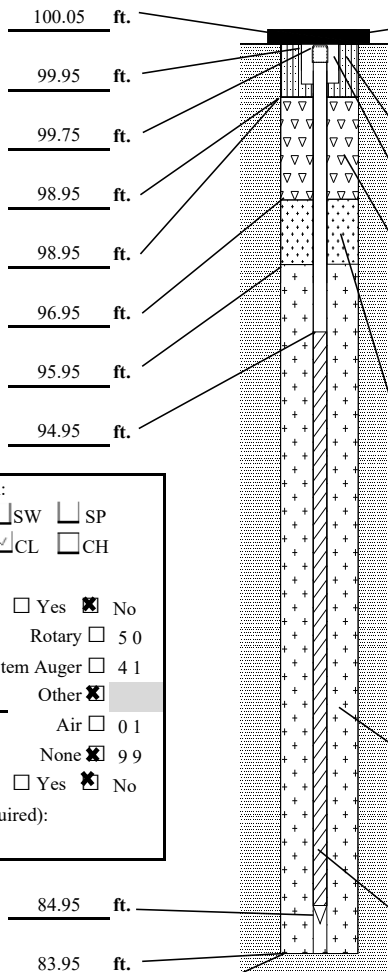
J. Filter pack, bottom

K. Borehole, bottom

L. Borehole, diameter

M. O.D. well casing

N. I.D. well casing



1. Cap and lock?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2. Protective cover pipe:	
a. Inside diameter:	6 in.
b. Length:	9 in.
c. Material:	Steel <input type="checkbox"/> 0 4 Other <input checked="" type="checkbox"/>
d. Additional protection?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, describe:	
3. Surface seal:	Bentonite <input type="checkbox"/> 3 0 Concrete <input checked="" type="checkbox"/> 0 1 Other <input type="checkbox"/>
4. Material between well casing and protective pipe:	Bentonite <input type="checkbox"/> 3 0 None <input checked="" type="checkbox"/> Other <input type="checkbox"/>
5. Bentonite seal (Annular space seal):	
a. Bentonite granules	<input type="checkbox"/> 3 3
b. <input checked="" type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in.    Bentonite chips	<input checked="" type="checkbox"/> 3 2
c. Water Added	Other <input checked="" type="checkbox"/>
6. Annular space seal:	
a. Granular/Chipped Bentonite	<input type="checkbox"/> 3 3
b. _____ lbs/gal mud weight...Bentonite-sand slurry	<input type="checkbox"/> 3 5
c. _____ lbs/gal mud weight.....Bentonite slurry	<input type="checkbox"/> 3 1
d. _____ % Bentonite.....Bentonite-cement grout	<input type="checkbox"/> 5 0
e. _____ ft <sup>3</sup> volume added for any of the above	
f. How installed:	Tremie <input type="checkbox"/> 0 1 Tremie pumped <input type="checkbox"/> 0 2 Gravity <input checked="" type="checkbox"/> 0 8
7. Fine sand material: Manufacturer, product name & mesh size	
a. NSF, Silica Sand/Bluestone - 100 Mesh	<input type="checkbox"/>
b. Volume added: _____ ft <sup>3</sup>	<input type="checkbox"/>
8. Filter pack material: Manufacturer, product name & mesh size	
a. NSF, Silica Sand/Bluestone - 20-40 meshes	<input type="checkbox"/>
b. Volume added: _____ ft <sup>3</sup>	<input type="checkbox"/>
9. Well casing:	Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4 Other <input type="checkbox"/>
10. Screen Material: PVC	
a. Screen type:	Factory Cut <input checked="" type="checkbox"/> 1 1 Continuous Slot <input type="checkbox"/> 0 1 Other <input type="checkbox"/>
b. Manufacturer: Johnson	<input type="checkbox"/>
c. Slot size:	0.01 in.
d. Slotted Length:	10 ft.
11. Backfill material (below filter pack):	None <input type="checkbox"/> 1 4 Silica Sand <input checked="" type="checkbox"/>

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature:  Mike (Minghua) Wan, PE	Firm: Hydrodynamics Consultants, Inc.
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## MONITORING WELL DEVELOPMENT

<b>Project Name:</b> Westwood Cleaners, BRRTS # 02-41-552537	<b>County Name:</b> Milwaukee	<b>Well Name:</b> MW5	
<b>License/Permit/Monitoring No.:</b>	<b>County Code:</b> 41	<b>Wis. Unique Well No.:</b>	<b>DNR Well ID No.:</b>

1. Can this well be purged dry?  Yes  No

2. Well development method

surged with bailer and bailed	<input checked="" type="checkbox"/>	4 1
surged with bailer and pumped	<input type="checkbox"/>	6 1
surged with block and bailed	<input type="checkbox"/>	4 2
surged with block and pumped	<input type="checkbox"/>	6 2
surged with block, bailed and pumped	<input type="checkbox"/>	7 0
compressed air	<input type="checkbox"/>	2 0
bailed only	<input type="checkbox"/>	1 0
pumped only	<input type="checkbox"/>	5 1
pumped slowly	<input type="checkbox"/>	5 0
Other: _____	<input type="checkbox"/>	_____

3. Time spent developing well \_\_\_\_\_ ≈ 30 min.

4. Depth of well (from top of well casing) \_\_\_\_\_ 15 ft.

5. Inside Diameter of well \_\_\_\_\_ 1 in.

6. Volume of water in filter pack and well casing \_\_\_\_\_ gal.

7. Volume of water removed from well \_\_\_\_\_ 0.5 gal.

8. Volume of water added (if any) \_\_\_\_\_ gal.

9. Source of water added \_\_\_\_\_


10. Analysis performed on water added?  Yes  No  
(If yes, attach results)

	<u>Before Development</u>	<u>After Development</u>
11. Depth of Water (from top of well casing)	9.61 ft.	13.61 ft.
Date	09/19/2018	09/19/2018
Time	12:05 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	12:35 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM
12. Sediment in well bottom	_____ in.	_____ in.
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input type="checkbox"/> 1 5	Clear <input type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5
(Describe)	_____	_____
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l

16. Well developed by: Name (first, last) and Firm  
 First Name: Mike Last Name: Wan  
 Firm: Hydrodynamics Consultants, Inc.

17. Additional comments on development:

The well was basically dried.

<b>Name and Address of Facility Contact/Owner/Responsible Party</b>	<b>I hereby certify that the information on this form is true and correct to the best of my knowledge.</b>
First: Mr. Dong Last: Sin Facility/Firm: Westwood Cleaners Street: 8731 West North Avenue City/State/Zip: Wauwatosa, Wisconsin 53226	Signature:  Print Name: Mike (Minghua) Wan, PE Firm: Hydrodynamics Consultants, Inc.

## MONITORING WELL CONSTRUCTION

<b>Project Name:</b> Westwood Cleaners, BRRTS # 02-41-552537		<b>Local Grid Location:</b> <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S Feet <input type="checkbox"/> W		<b>Well Name:</b> MW6	<b>Elevation:</b> 100 ft. Site Datum* = 705 ft. MSL
<b>License/Permit/Monitoring No.:</b>		<b>Local Grid Origin</b> <input type="checkbox"/> Estimated <input checked="" type="checkbox"/> or Well Location <input type="checkbox"/> Lat <u>43</u> ° <u>03</u> ' <u>36.9N</u> " Long <u>88</u> ° <u>01</u> ' <u>19.30W</u> "		<b>Wis. Unique Well No.:</b>	<b>DNR Well ID No.:</b>
<b>Facility ID:</b> 241836100		<b>State Plan</b> _____ N, _____ E		<b>Date Well Installed:</b> 9/16/18	
<b>Type of Well:</b> Well Code <u>11</u> / <u>MW</u>		<b>Section Location of Waste/Source:</b> <u>NE</u> 1/4 of <u>NW</u> 1/4 of Sec <u>21</u> , T <u>07</u> N, R <u>21</u> <input type="checkbox"/> E <input type="checkbox"/> W		<b>Well Installed By: Name (first, last) and Firm:</b> Yinong Han Hydrodynamics Consultants, Inc.	
<b>Distance from Waste/Source:</b> ≈ 20 ft.	<b>Enf. Stds. Apply:</b> <input type="checkbox"/>	<b>Location of Well Relative to Waste/Source:</b> u <input checked="" type="checkbox"/> Upgrade s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		<b>Gov. Lot Number:</b>	

Note: All elevations are site datum\*

<p>A. Land surface, elevation <u>100.05</u> ft.</p> <p>B. Protective pipe, top elevation <u>99.95</u> ft.</p> <p>C. Well Casing, top elevation <u>99.75</u> ft.</p> <p>D. Surface seal, bottom <u>98.95</u> ft.</p> <p>E. Bentonite seal, top <u>98.95</u> ft.</p> <p>F. Fine sand, top <u>96.95</u> ft.</p> <p>G. Filter pack, top <u>95.95</u> ft.</p> <p>H. Screen joint, top <u>94.95</u> ft.</p>		<p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe:                  a. Inside diameter: <u>6</u> in.                  b. Length: <u>9</u> in.                  c. Material: <u>HD PVC</u>                  Steel <input type="checkbox"/> 0 4                  Other <input checked="" type="checkbox"/>                  d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                  If yes, describe: _____</p> <p>3. Surface seal: <u>Bentonite</u> <input type="checkbox"/> 3 0                  Concrete <input checked="" type="checkbox"/> 0 1                  Other <input type="checkbox"/>  <u>None</u> <input checked="" type="checkbox"/></p> <p>4. Material between well casing and protective pipe: <u>None</u> <input checked="" type="checkbox"/>                  Bentonite <input type="checkbox"/> 3 0                  Other <input type="checkbox"/></p> <p>5. Bentonite seal (Annular space seal):                  a. Bentonite granules <input type="checkbox"/> 3 3                  b. <input checked="" type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 3 2                  c. <u>Water Added</u> Other <input checked="" type="checkbox"/></p> <p>6. Annular space seal:                  a. Granular/Chipped Bentonite <input type="checkbox"/> 3 3                  b. _____ lbs/gal mud weight...Bentonite-sand slurry <input type="checkbox"/> 3 5                  c. _____ lbs/gal mud weight.....Bentonite slurry <input type="checkbox"/> 3 1                  d. _____ % Bentonite.....Bentonite-cement grout <input type="checkbox"/> 5 0                  e. _____ ft³ volume added for any of the above                  f. How installed: Tremie <input type="checkbox"/> 0 1                  Tremie pumped <input type="checkbox"/> 0 2                  Gravity <input checked="" type="checkbox"/> 0 8</p> <p>7. Fine sand material: Manufacturer, product name &amp; mesh size                  a. <u>NSF, Silica Sand/Bluestone - 100 Mesh</u>                  b. Volume added: _____ ft³</p> <p>8. Filter pack material: Manufacturer, product name &amp; mesh size                  a. <u>NSF, Silica Sand/Bluestone - 20-40 meshes</u>                  b. Volume added: _____ ft³</p> <p>9. Well casing: <u>Flush threaded PVC schedule 40</u> <input checked="" type="checkbox"/> 2 3                  Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4                  Other <input type="checkbox"/></p> <p>10. Screen Material: <u>PVC</u>                  a. Screen type: <u>Factory Cut</u> <input checked="" type="checkbox"/> 1 1                  Continuous Slot <input type="checkbox"/> 0 1                  Other <input type="checkbox"/>                  b. Manufacturer <u>Johnson</u>                  c. Slot size: <u>0.01</u> in.                  d. Slotted Length: <u>10</u> ft.</p> <p>11. Backfill material (below filter pack): <u>Silica Sand</u> <input type="checkbox"/> 1 4                  Other <input checked="" type="checkbox"/></p>
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12. USCS classification of soil near screen:  
 GP  GM  GC  GW  SW  SP  
 SM  SC  ML  MH  CL  CH  
 Bedrock

13. Sieve analysis performed?  Yes  No

14. Drilling method used: Rotary  5 0  
 Hollow Stem Auger  4 1  
 GeoProbe  Other

15. Drilling fluid used: Water  0 2 Air  0 1  
 Drilling Mud  0 3 None  9 9

16. Drilling additives used?  Yes  No

17. Source of water (attach analysis, if required):

I. Well bottom	<u>84.95</u> ft.	
J. Filter pack, bottom	<u>83.95</u> ft.	
K. Borehole, bottom	<u>83.95</u> ft.	
L. Borehole, diameter	<u>2.00</u> in.	
M. O.D. well casing	<u>1.25</u> in.	
N. I.D. well casing	<u>1.00</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature:	Firm: Hydrodynamics Consultants, Inc.
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## MONITORING WELL DEVELOPMENT

<b>Project Name:</b> Westwood Cleaners, BRRTS # 02-41-552537	<b>County Name:</b> Milwaukee	<b>Well Name:</b> MW6	
<b>License/Permit/Monitoring No.:</b>	<b>County Code:</b> 41	<b>Wis. Unique Well No.:</b>	<b>DNR Well ID No.:</b>

1. Can this well be purged dry?  Yes  No

2. Well development method

surged with bailer and bailed	<input checked="" type="checkbox"/>	4 1
surged with bailer and pumped	<input type="checkbox"/>	6 1
surged with block and bailed	<input type="checkbox"/>	4 2
surged with block and pumped	<input type="checkbox"/>	6 2
surged with block, bailed and pumped	<input type="checkbox"/>	7 0
compressed air	<input type="checkbox"/>	2 0
bailed only	<input type="checkbox"/>	1 0
pumped only	<input type="checkbox"/>	5 1
pumped slowly	<input type="checkbox"/>	5 0
Other: _____	<input type="checkbox"/>	_____

3. Time spent developing well \_\_\_\_\_ ≈ 30 min.

4. Depth of well (from top of well casing) \_\_\_\_\_ 15 ft.

5. Inside Diameter of well \_\_\_\_\_ 1 in.

6. Volume of water in filter pack and well casing \_\_\_\_\_ gal.

7. Volume of water removed from well \_\_\_\_\_ 0.5 gal.

8. Volume of water added (if any) \_\_\_\_\_ gal.

9. Source of water added \_\_\_\_\_

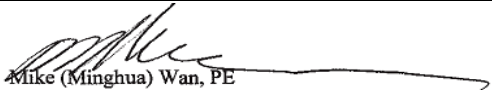
10. Analysis performed on water added?  Yes  No  
(If yes, attach results)

	<u>Before Development</u>	<u>After Development</u>
11. Depth of Water (from top of well casing)	9.76 ft.	13.76 ft.
Date	09/19/2018	09/19/2018
Time	12:50 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	1:20 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM
12. Sediment in well bottom	_____ in.	_____ in.
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input type="checkbox"/> 1 5	Clear <input type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5
(Describe)	_____	_____
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l

16. Well developed by: Name (first, last) and Firm  
 First Name: Mike Last Name: Wan  
 Firm: Hydrodynamics Consultants, Inc.

17. Additional comments on development:

The well was basically dried.

<b>Name and Address of Facility Contact/Owner/Responsible Party</b>	<b>I hereby certify that the information on this form is true and correct to the best of my knowledge.</b>
First: Mr. Dong Last: Sin Facility/Firm: Westwood Cleaners Street: 8731 West North Avenue City/State/Zip: Wauwatosa, Wisconsin 53226	Signature:  Print Name: Mike (Minghua) Wan, PE Firm: Hydrodynamics Consultants, Inc.

# MONITORING WELL CONSTRUCTION

Project Name: Westwood Cleaners, BRRTS # 02-41-552537		Local Grid Location: <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S Feet <input type="checkbox"/> W		Well Name: MW7	Elevation: 100 ft. Site Datum* = 705 ft. MSL
License/Permit/Monitoring No.:		Local Grid Origin <input type="checkbox"/> Estimated <input checked="" type="checkbox"/> or Well Location <input type="checkbox"/> Lat <u>43</u> ° <u>03</u> ' <u>36.9N</u> " Long <u>88</u> ° <u>01</u> ' <u>19.30W</u> "		Wis. Unique Well No.:	DNR Well ID No.:
Facility ID: 241836100		State Plan _____ N, _____ E		Date Well Installed: 7/28/20	
Type of Well: Well Code <u>11</u> / <u>MW</u>		Section Location of Waste/Source: <u>NE</u> 1/4 of <u>NW</u> 1/4 of Sec <u>21</u> , T <u>07</u> N, R <u>21</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm: Yinong Han Hydrodynamics Consultants, Inc.	
Distance from Waste/Source: ≈ 20 ft.	Enf. Stds. Apply: <input type="checkbox"/>	Location of Well Relative to Waste/Source: u <input checked="" type="checkbox"/> Upgrade s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number:		

Note: All elevations are site datum\*

<p>A. Land surface, elevation <u>98.95</u> ft.</p> <p>B. Protective pipe, top elevation <u>98.85</u> ft.</p> <p>C. Well Casing, top elevation <u>98.65</u> ft.</p> <p>D. Surface seal, bottom <u>97.85</u> ft.</p> <p>E. Bentonite seal, top <u>97.85</u> ft.</p> <p>F. Fine sand, top <u>95.85</u> ft.</p> <p>G. Filter pack, top <u>94.85</u> ft.</p> <p>H. Screen joint, top <u>93.85</u> ft.</p>		<p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: <u>6</u> in. b. Length: <u>9</u> in. c. Material: <u>HD PVC</u> Steel <input type="checkbox"/> 0 4 Other <input checked="" type="checkbox"/> d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____</p> <p>3. Surface seal: Bentonite <input type="checkbox"/> 3 0 Concrete <input checked="" type="checkbox"/> 0 1 Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 3 0 None <input checked="" type="checkbox"/> Other <input type="checkbox"/></p> <p>5. Bentonite seal (Annular space seal): a. Bentonite granules <input type="checkbox"/> 3 3 b. <input checked="" type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 3 2 c. <u>Water Added</u> Other <input checked="" type="checkbox"/></p> <p>6. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 3 3 b. _____ lbs/gal mud weight...Bentonite-sand slurry <input type="checkbox"/> 3 5 c. _____ lbs/gal mud weight.....Bentonite slurry <input type="checkbox"/> 3 1 d. _____ % Bentonite.....Bentonite-cement grout <input type="checkbox"/> 5 0 e. _____ ft<sup>3</sup> volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0 1 Tremie pumped <input type="checkbox"/> 0 2 Gravity <input checked="" type="checkbox"/> 0 8</p> <p>7. Fine sand material: Manufacturer, product name &amp; mesh size a. <u>NSF, Silica Sand/Bluestone - 100 Mesh</u> b. Volume added: _____ ft<sup>3</sup></p> <p>8. Filter pack material: Manufacturer, product name &amp; mesh size a. <u>NSF, Silica Sand/Bluestone - 20-40 meshes</u> b. Volume added: _____ ft<sup>3</sup></p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4 Other <input type="checkbox"/></p> <p>10. Screen Material: <u>PVC</u> a. Screen type: Factory Cut <input checked="" type="checkbox"/> 1 1 Continuous Slot <input type="checkbox"/> 0 1 Other <input type="checkbox"/> b. Manufacturer <u>Johnson</u> c. Slot size: <u>0.01</u> in. d. Slotted Length: <u>10</u> ft.</p> <p>11. Backfill material (below filter pack): <u>Silica Sand</u> None <input type="checkbox"/> 1 4 Other <input checked="" type="checkbox"/></p>
<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p>12. USCS classification of soil near screen:  <input type="checkbox"/> GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP  <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input checked="" type="checkbox"/> CL <input type="checkbox"/> CH                      Bedrock <input type="checkbox"/></p> </div> <p>13. Sieve analysis preformed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 5 0 Hollow Stem Auger <input type="checkbox"/> 4 1 <u>GeoProbe</u> Other <input checked="" type="checkbox"/></p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1 Drilling Mud <input type="checkbox"/> 0 3 None <input checked="" type="checkbox"/> 9 9</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>17. Source of water (attach analysis, if required):</p>	<p>I. Well bottom <u>83.85</u> ft.</p> <p>J. Filter pack, bottom <u>82.85</u> ft.</p> <p>K. Borehole, bottom <u>82.85</u> ft.</p> <p>L. Borehole, diameter <u>2.00</u> in.</p> <p>M. O.D. well casing <u>1.25</u> in.</p> <p>N. I.D. well casing <u>1.00</u> in.</p>	

I hereby certify that the information on this form is true and correct to the best of my knowledge.	
Signature:	Firm: <u>Hydrodynamics Consultants, Inc.</u>

## MONITORING WELL DEVELOPMENT

<b>Project Name:</b> Westwood Cleaners, BRRTS # 02-41-552537	<b>County Name:</b> Milwaukee	<b>Well Name:</b> MW7	
<b>License/Permit/Monitoring No.:</b>	<b>County Code:</b> 41	<b>Wis. Unique Well No.:</b>	<b>DNR Well ID No.:</b>

1. Can this well be purged dry?  Yes  No

2. Well development method

surged with bailer and bailed	<input checked="" type="checkbox"/>	4 1
surged with bailer and pumped	<input type="checkbox"/>	6 1
surged with block and bailed	<input type="checkbox"/>	4 2
surged with block and pumped	<input type="checkbox"/>	6 2
surged with block, bailed and pumped	<input type="checkbox"/>	7 0
compressed air	<input type="checkbox"/>	2 0
bailed only	<input type="checkbox"/>	1 0
pumped only	<input type="checkbox"/>	5 1
pumped slowly	<input type="checkbox"/>	5 0
Other: _____	<input type="checkbox"/>	_____

3. Time spent developing well \_\_\_\_\_ ≈ 30 min.

4. Depth of well (from top of well casing) \_\_\_\_\_ 15 ft.

5. Inside Diameter of well \_\_\_\_\_ 1 in.

6. Volume of water in filter pack and well casing \_\_\_\_\_ gal.

7. Volume of water removed from well \_\_\_\_\_ 0.5 gal.

8. Volume of water added (if any) \_\_\_\_\_ gal.

9. Source of water added \_\_\_\_\_

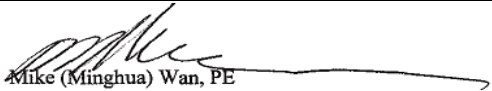
10. Analysis performed on water added?  Yes  No  
(If yes, attach results)

	<u>Before Development</u>	<u>After Development</u>
11. Depth of Water (from top of well casing)	9.72 ft.	13.72 ft.
Date	07/28/2020	07/28/2020
Time	1:30 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	2:00 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM
12. Sediment in well bottom	_____ in.	_____ in.
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input type="checkbox"/> 1 5 (Describe) _____	Clear <input type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe) _____
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l

16. Well developed by: Name (first, last) and Firm  
 First Name: Mike Last Name: Wan  
 Firm: Hydrodynamics Consultants, Inc.

17. Additional comments on development:

The well was basically dried.

<b>Name and Address of Facility Contact/Owner/Responsible Party</b>	<b>I hereby certify that the information on this form is true and correct to the best of my knowledge.</b>
First: Mr. Dong Last: Sin Facility/Firm: Westwood Cleaners Street: 8731 West North Avenue City/State/Zip: Wauwatosa, Wisconsin 53226	Signature:  Print Name: Mike (Minghua) Wan, PE Firm: Hydrodynamics Consultants, Inc.

# MONITORING WELL CONSTRUCTION

<b>Project Name:</b> Westwood Cleaners, BRRTS # 02-41-552537		<b>Local Grid Location:</b> <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S Feet <input type="checkbox"/> W		<b>Well Name:</b> MW8	<b>Elevation:</b> 100 ft. Site Datum* = 705 ft. MSL
<b>License/Permit/Monitoring No.:</b>		<b>Local Grid Origin</b> <input type="checkbox"/> Estimated <input checked="" type="checkbox"/> or Well Location <input type="checkbox"/> Lat <u>43</u> ° <u>03</u> ' <u>36.9N</u> " Long <u>88</u> ° <u>01</u> ' <u>19.30W</u> "		<b>Wis. Unique Well No.:</b>	<b>DNR Well ID No.:</b>
<b>Facility ID:</b> 241836100		<b>State Plan</b> _____ N, _____ E		<b>Date Well Installed:</b> 7/28/20	
<b>Type of Well:</b> Well Code <u>11</u> / <u>MW</u>		<b>Section Location of Waste/Source:</b> _____ <input checked="" type="checkbox"/> E _____ <u>NE</u> 1/4 of <u>NW</u> 1/4 of Sec <u>21</u> , T <u>07</u> N, R <u>21</u> <input type="checkbox"/> W		<b>Well Installed By: Name (first, last) and Firm:</b> Yinong Han Hydrodynamics Consultants, Inc.	
<b>Distance from Waste/Source:</b> ≈ 20 ft.	<b>Enf. Stds. Apply:</b> <input type="checkbox"/>	<b>Location of Well Relative to Waste/Source:</b> u <input checked="" type="checkbox"/> Upgrade s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		<b>Gov. Lot Number:</b> _____	

Note: All elevations are site datum\*

<p>A. Land surface, elevation <u>98.58</u> ft.</p> <p>B. Protective pipe, top elevation <u>98.48</u> ft.</p> <p>C. Well Casing, top elevation <u>98.28</u> ft.</p> <p>D. Surface seal, bottom <u>97.48</u> ft.</p> <p>E. Bentonite seal, top <u>97.48</u> ft.</p> <p>F. Fine sand, top <u>95.48</u> ft.</p> <p>G. Filter pack, top <u>94.48</u> ft.</p> <p>H. Screen joint, top <u>93.48</u> ft.</p>		<p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe:                  a. Inside diameter: <u>6</u> in.                  b. Length: <u>9</u> in.                  c. Material: _____ Steel <input type="checkbox"/> 0 4                  HD PVC Other <input checked="" type="checkbox"/>                  d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                  If yes, describe: _____</p> <p>3. Surface seal: _____ Bentonite <input type="checkbox"/> 3 0                  Concrete <input checked="" type="checkbox"/> 0 1                  Other <input type="checkbox"/> _____</p> <p>4. Material between well casing and protective pipe: _____ Bentonite <input type="checkbox"/> 3 0                  None Other <input checked="" type="checkbox"/> _____</p> <p>5. Bentonite seal (Annular space seal):                  a. Bentonite granules <input type="checkbox"/> 3 3                  b. <input checked="" type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 3 2                  c. _____ Water Added Other <input checked="" type="checkbox"/> _____</p> <p>6. Annular space seal:                  a. Granular/Chipped Bentonite <input type="checkbox"/> 3 3                  b. _____ lbs/gal mud weight...Bentonite-sand slurry <input type="checkbox"/> 3 5                  c. _____ lbs/gal mud weight.....Bentonite slurry <input type="checkbox"/> 3 1                  d. _____ % Bentonite.....Bentonite-cement grout <input type="checkbox"/> 5 0                  e. _____ ft³ volume added for any of the above                  f. How installed: _____ Tremie <input type="checkbox"/> 0 1                  _____ Tremie pumped <input type="checkbox"/> 0 2                  _____ Gravity <input checked="" type="checkbox"/> 0 8</p> <p>7. Fine sand material: Manufacturer, product name &amp; mesh size                  a. <u>NSF, Silica Sand/Bluestone - 100 Mesh</u>                  b. Volume added: _____ ft³</p> <p>8. Filter pack material: Manufacturer, product name &amp; mesh size                  a. <u>NSF, Silica Sand/Bluestone - 20-40 meshes</u>                  b. Volume added: _____ ft³</p> <p>9. Well casing: _____ Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 3                  _____ Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4                  _____ Other <input type="checkbox"/> _____</p> <p>10. Screen Material: _____ PVC                  a. Screen type: _____ Factory Cut <input checked="" type="checkbox"/> 1 1                  _____ Continuous Slot <input type="checkbox"/> 0 1                  _____ Other <input type="checkbox"/> _____                  b. Manufacturer <u>Johnson</u>                  c. Slot size: _____ 0.01 in.                  d. Slotted Length: _____ 10 ft.</p> <p>11. Backfill material (below filter pack): _____ None <input type="checkbox"/> 1 4                  _____ Silica Sand Other <input checked="" type="checkbox"/> _____</p>
<p>12. USCS classification of soil near screen:  <input type="checkbox"/> GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP  <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input checked="" type="checkbox"/> CL <input type="checkbox"/> CH                  Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis preformed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: _____ Rotary <input type="checkbox"/> 5 0                  _____ Hollow Stem Auger <input type="checkbox"/> 4 1                  _____ GeoProbe Other <input checked="" type="checkbox"/> _____</p> <p>15. Drilling fluid used: _____ Water <input type="checkbox"/> 0 2 _____ Air <input type="checkbox"/> 0 1                  _____ Drilling Mud <input type="checkbox"/> 0 3 _____ None <input checked="" type="checkbox"/> 9 9</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>17. Source of water (attach analysis, if required): _____</p>	<p>I. Well bottom <u>83.48</u> ft.</p> <p>J. Filter pack, bottom <u>82.48</u> ft.</p> <p>K. Borehole, bottom <u>82.48</u> ft.</p> <p>L. Borehole, diameter <u>2.00</u> in.</p> <p>M. O.D. well casing <u>1.25</u> in.</p> <p>N. I.D. well casing <u>1.00</u> in.</p>	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

<b>Signature:</b> 	<b>Firm:</b> Hydrodynamics Consultants, Inc.
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## MONITORING WELL DEVELOPMENT

<b>Project Name:</b> Westwood Cleaners, BRRTS # 02-41-552537	<b>County Name:</b> Milwaukee	<b>Well Name:</b> MW8	
<b>License/Permit/Monitoring No.:</b>	<b>County Code:</b> 41	<b>Wis. Unique Well No.:</b>	<b>DNR Well ID No.:</b>

1. Can this well be purged dry?  Yes  No

2. Well development method

surged with bailer and bailed	<input checked="" type="checkbox"/>	4 1
surged with bailer and pumped	<input type="checkbox"/>	6 1
surged with block and bailed	<input type="checkbox"/>	4 2
surged with block and pumped	<input type="checkbox"/>	6 2
surged with block, bailed and pumped	<input type="checkbox"/>	7 0
compressed air	<input type="checkbox"/>	2 0
bailed only	<input type="checkbox"/>	1 0
pumped only	<input type="checkbox"/>	5 1
pumped slowly	<input type="checkbox"/>	5 0
Other: _____	<input type="checkbox"/>	_____

3. Time spent developing well \_\_\_\_\_ ≈ 30 min.

4. Depth of well (from top of well casing) \_\_\_\_\_ 15 ft.

5. Inside Diameter of well \_\_\_\_\_ 1 in.

6. Volume of water in filter pack and well casing \_\_\_\_\_ gal.

7. Volume of water removed from well \_\_\_\_\_ 0.5 gal.

8. Volume of water added (if any) \_\_\_\_\_ gal.

9. Source of water added \_\_\_\_\_

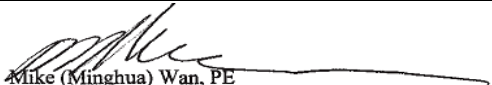
10. Analysis performed on water added?  Yes  No  
(If yes, attach results)

	<u>Before Development</u>	<u>After Development</u>
11. Depth of Water (from top of well casing)	9.52 ft.	13.52 ft.
Date	07/28/2020	07/28/2020
Time	3:00 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	3:30 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM
12. Sediment in well bottom	_____ in.	_____ in.
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input type="checkbox"/> 1 5	Clear <input type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5
(Describe)	_____	_____
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l

16. Well developed by: Name (first, last) and Firm  
 First Name: Mike Last Name: Wan  
 Firm: Hydrodynamics Consultants, Inc.

17. Additional comments on development:

The well was basically dried.

<b>Name and Address of Facility Contact/Owner/Responsible Party</b>	<b>I hereby certify that the information on this form is true and correct to the best of my knowledge.</b>
First: Mr. Dong Last: Sin Facility/Firm: Westwood Cleaners Street: 8731 West North Avenue City/State/Zip: Wauwatosa, Wisconsin 53226	Signature:  Print Name: Mike (Minghua) Wan, PE Firm: Hydrodynamics Consultants, Inc.



# MONITORING WELL CONSTRUCTION

<b>Project Name:</b> Westwood Cleaners, BRRTS # 02-41-552537		<b>Local Grid Location:</b> <div style="display: flex; justify-content: space-around;"> <span><input type="checkbox"/> N</span> <span><input type="checkbox"/> E</span> </div> <div style="display: flex; justify-content: space-around;"> <span>Feet <input type="checkbox"/> S</span> <span>Feet <input type="checkbox"/> W</span> </div>		<b>Well Name:</b> MW9	<b>Elevation:</b> 100 ft. Site Datum* = 705 ft. MSL
<b>License/Permit/Monitoring No.:</b>		<b>Local Grid Origin</b> <input type="checkbox"/> Estimated <input checked="" type="checkbox"/> or Well Location <input type="checkbox"/> Lat <u>43</u> ° <u>03</u> ' <u>36.9N</u> " Long <u>88</u> ° <u>01</u> ' <u>19.30W</u> "		<b>Wis. Unique Well No.:</b>	<b>DNR Well ID No.:</b>
<b>Facility ID:</b> 241836100		<b>State Plan</b> _____ N, _____ E		<b>Date Well Installed:</b> 7/28/20	
<b>Type of Well:</b> Well Code <u>11</u> / <u>MW</u>		<b>Section Location of Waste/Source:</b> <u>NE</u> 1/4 of <u>NW</u> 1/4 of Sec <u>21</u> , T <u>07</u> N, R <u>21</u> <input type="checkbox"/> W		<b>Well Installed By: Name (first, last) and Firm:</b> Yinong Han Hydrodynamics Consultants, Inc.	
<b>Distance from Waste/Source:</b> ≈ 20 ft.	<b>Enf. Stds. Apply:</b> <input type="checkbox"/>	<b>Location of Well Relative to Waste/Source:</b> u <input checked="" type="checkbox"/> Upgrade    s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient    n <input type="checkbox"/> Not Known	<b>Gov. Lot Number:</b>		

Note: All elevations are site datum\*

A. Land surface, elevation	98.3 ft.		1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Protective pipe, top elevation	98.2 ft.		2. Protective cover pipe: a. Inside diameter: <u>6</u> in. b. Length: <u>9</u> in. c. Material: <u>HD PVC</u> Steel <input type="checkbox"/> 0 4 Other <input checked="" type="checkbox"/>
C. Well Casing, top elevation	98 ft.		d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom	97.2 ft.		3. Surface seal: <u>Bentonite</u> <input type="checkbox"/> 3 0 Concrete <input checked="" type="checkbox"/> 0 1 Other <input type="checkbox"/>
E. Bentonite seal, top	97.2 ft.		4. Material between well casing and protective pipe: <u>None</u> <input type="checkbox"/> 3 0 Other <input checked="" type="checkbox"/>
F. Fine sand, top	95.2 ft.		5. Bentonite seal (Annular space seal): a. Bentonite granules <input type="checkbox"/> 3 3 b. <input checked="" type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 3 2 c. <u>Water Added</u> <input type="checkbox"/> Other <input checked="" type="checkbox"/>
G. Filter pack, top	94.2 ft.		6. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 3 3 b. _____ lbs/gal mud weight...Bentonite-sand slurry <input type="checkbox"/> 3 5 c. _____ lbs/gal mud weight.....Bentonite slurry <input type="checkbox"/> 3 1 d. _____ % Bentonite.....Bentonite-cement grout <input type="checkbox"/> 5 0 e. _____ ft³ volume added for any of the above
H. Screen joint, top	93.2 ft.		f. How installed: Tremie <input type="checkbox"/> 0 1 Tremie pumped <input type="checkbox"/> 0 2 Gravity <input checked="" type="checkbox"/> 0 8
12. USCS classification of soil near screen: <input type="checkbox"/> GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input checked="" type="checkbox"/> CL <input type="checkbox"/> CH Bedrock <input type="checkbox"/>			7. Fine sand material: Manufacturer, product name & mesh size a. <u>NSF, Silica Sand/Bluestone - 100 Mesh</u> b. Volume added: _____ ft³
13. Sieve analysis preformed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			8. Filter pack material: Manufacturer, product name & mesh size a. <u>NSF, Silica Sand/Bluestone - 20-40 meshes</u> b. Volume added: _____ ft³
14. Drilling method used: Rotary <input type="checkbox"/> 5 0 Hollow Stem Auger <input type="checkbox"/> 4 1 GeoProbe _____ Other <input checked="" type="checkbox"/>			9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4 Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1 Drilling Mud <input type="checkbox"/> 0 3 None <input checked="" type="checkbox"/> 9 9		10. Screen Material: <u>PVC</u> a. Screen type: Factory Cut <input checked="" type="checkbox"/> 1 1 Continuous Slot <input type="checkbox"/> 0 1 Other <input type="checkbox"/>	
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		b. Manufacturer <u>Johnson</u> c. Slot size: <u>0.01</u> in. d. Slotted Length: <u>10</u> ft.	
17. Source of water (attach analysis, if required):		11. Backfill material (below filter pack): <u>Silica Sand</u> <input type="checkbox"/> 1 4 Other <input checked="" type="checkbox"/>	
I. Well bottom	83.2 ft.		
J. Filter pack, bottom	82.2 ft.		
K. Borehole, bottom	82.2 ft.		
L. Borehole, diameter	2.00 in.		
M. O.D. well casing	1.25 in.		
N. I.D. well casing	1.00 in.		

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature:	Firm: <span style="float: right;">Hydrodynamics Consultants, Inc.</span>
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## MONITORING WELL DEVELOPMENT

<b>Project Name:</b> Westwood Cleaners, BRRTS # 02-41-552537	<b>County Name:</b> Milwaukee	<b>Well Name:</b> MW9	
<b>License/Permit/Monitoring No.:</b>	<b>County Code:</b> 41	<b>Wis. Unique Well No.:</b>	<b>DNR Well ID No.:</b>

1. Can this well be purged dry?  Yes  No

2. Well development method

surged with bailer and bailed	<input checked="" type="checkbox"/>	4 1
surged with bailer and pumped	<input type="checkbox"/>	6 1
surged with block and bailed	<input type="checkbox"/>	4 2
surged with block and pumped	<input type="checkbox"/>	6 2
surged with block, bailed and pumped	<input type="checkbox"/>	7 0
compressed air	<input type="checkbox"/>	2 0
bailed only	<input type="checkbox"/>	1 0
pumped only	<input type="checkbox"/>	5 1
pumped slowly	<input type="checkbox"/>	5 0
Other: _____	<input type="checkbox"/>	_____

3. Time spent developing well \_\_\_\_\_ ≈ 30 min.

4. Depth of well (from top of well casing) \_\_\_\_\_ 15 ft.

5. Inside Diameter of well \_\_\_\_\_ 1 in.

6. Volume of water in filter pack and well casing \_\_\_\_\_ gal.

7. Volume of water removed from well \_\_\_\_\_ 0.5 gal.

8. Volume of water added (if any) \_\_\_\_\_ gal.

9. Source of water added \_\_\_\_\_

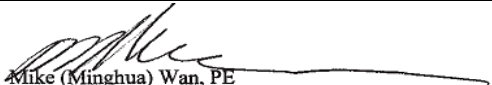
10. Analysis performed on water added?  Yes  No  
(If yes, attach results)

	<u>Before Development</u>	<u>After Development</u>
11. Depth of Water (from top of well casing)	9.59 ft.	13.59 ft.
Date	07/28/2020	07/28/2020
Time	4:00 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	4:30 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM
12. Sediment in well bottom	_____ in.	_____ in.
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input type="checkbox"/> 1 5	Clear <input type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5
(Describe)	_____	_____
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l

16. Well developed by: Name (first, last) and Firm  
 First Name: Mike Last Name: Wan  
 Firm: Hydrodynamics Consultants, Inc.

17. Additional comments on development:

The well was basically dried.

<b>Name and Address of Facility Contact/Owner/Responsible Party</b>	<b>I hereby certify that the information on this form is true and correct to the best of my knowledge.</b>
First: Mr. Dong Last: Sin Facility/Firm: Westwood Cleaners Street: 8731 West North Avenue City/State/Zip: Wauwatosa, Wisconsin 53226	Signature:  Print Name: Mike (Minghua) Wan, PE Firm: Hydrodynamics Consultants, Inc.

**APPENDIX V**  
**WELL/BOREHOLE ABANDONMENT REPORTS**

**Notice:** Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

**Verification Only of Fill and Seal**

**Route to DNR Bureau:**

- Drinking Water       Watershed/Wastewater       Remediation/Redevelopment  
 Waste Management       Other: \_\_\_\_\_

**1. Well Location Information**      **2. Facility / Owner Information**

County <b>Milwaukee</b>		WI Unique Well # of Removed Well _____	Hicap # _____
Latitude / Longitude (see instructions) 43° 03' 36.9" N 88° 01' 19.30W" W		Format Code <input type="checkbox"/> DD <input checked="" type="checkbox"/> DDM	Method Code <input type="checkbox"/> GPS008 <input checked="" type="checkbox"/> SCR002 <input type="checkbox"/> OTH001
¼ / ¼ NE or Gov't Lot #	¼ NW	Section <b>21</b>	Township <b>07 N</b>
Well Street Address 8731 West North Avenue		Range <b>21</b>	<input checked="" type="checkbox"/> E <input type="checkbox"/> W
Well City, Village or Town <b>Wauwatosa</b>		Well ZIP Code <b>53226</b>	
Subdivision Name		Lot #	
Reason for Removal from Service Sampling Complete	WI Unique Well # of Replacement Well _____		

Facility Name <b>Westwood Cleaners</b>		
Facility ID (FID or PWS) <b>241836100</b>		
License/Permit/Monitoring # <b>BRRTS # 02-41-552537 / NSB7</b>		
Original Well Owner <b>Mr. Dong Sin</b>		
Present Well Owner <b>Mr. Dong Sin</b>		
Mailing Address of Present Owner <b>8731 West North Avenue</b>		
City of Present Owner <b>Wauwatosa</b>	State <b>WI</b>	ZIP Code <b>53226</b>

**3. Filled & Sealed Well / Drillhole / Borehole Information**

<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) <b>9/16/2018</b>
<input type="checkbox"/> Water Well	
<input checked="" type="checkbox"/> Borehole / Drillhole	If a Well Construction Report is available, please attach.
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <b>Geoprobe (Direct Push)</b>	
Formation Type: <input type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft.) <b>16</b>	Casing Diameter (in.)
Lower Drillhole Diameter (in.)	Casing Depth (ft.)
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)?	Depth to Water (feet) <b>6</b>

**4. Pump, Liner, Screen, Casing & Sealing Material**

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity		<input type="checkbox"/> Conductor Pipe-Pumped	
<input type="checkbox"/> Screened & Poured (Bentonite Chips)		<input checked="" type="checkbox"/> Other (Explain): <b>Gravity</b>	
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Concrete	
<input checked="" type="checkbox"/> Sand-Cement (Concrete) Grout		<input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	

**5. Material Used to Fill Well / Drillhole**

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Cement	Surface	6in		
Bentonite	6in	16ft		

**6. Comments**

All boreholes were filled with bentonite and sealed at the surface to match existing conditions.

**7. Supervision of Work**      **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing <b>Hydrodynamics Consultants, Inc.</b>	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) <b>9/16/2018</b>	Date Received	Noted By
Street or Route <b>5403 Patton Dr. Unit 215</b>		Telephone Number <b>( 630 )</b>	Comments	
City <b>Lisle</b>	State <b>IL</b>	ZIP Code <b>60532</b>	Signature of Person Doing Work <i>Mike Wan</i>	Date Signed <b>11/9/2018</b>

**Notice:** Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

**Verification Only of Fill and Seal**

**Route to DNR Bureau:**

- Drinking Water       Watershed/Wastewater       Remediation/Redevelopment  
 Waste Management       Other: \_\_\_\_\_

**1. Well Location Information**      **2. Facility / Owner Information**

County <b>Milwaukee</b>		WI Unique Well # of Removed Well _____	Hicap # _____
Latitude / Longitude (see instructions) 43° 03' 36.9" N 88° 01' 19.30W" W		Format Code <input type="checkbox"/> DD <input checked="" type="checkbox"/> DDM	Method Code <input type="checkbox"/> GPS008 <input checked="" type="checkbox"/> SCR002 <input type="checkbox"/> OTH001
¼ / ¼ NE or Gov't Lot #	¼ NW	Section <b>21</b>	Township <b>07 N</b>
Well Street Address 8731 West North Avenue		Range <b>21</b>	<input checked="" type="checkbox"/> E <input type="checkbox"/> W
Well City, Village or Town <b>Wauwatosa</b>		Well ZIP Code 53226	
Subdivision Name		Lot #	
Reason for Removal from Service Sampling Complete	WI Unique Well # of Replacement Well _____		

Facility Name <b>Westwood Cleaners</b>		
Facility ID (FID or PWS) 241836100		
License/Permit/Monitoring # BRRTS # 02-41-552537 / NSB8		
Original Well Owner Mr. Dong Sin		
Present Well Owner Mr. Dong Sin		
Mailing Address of Present Owner 8731 West North Avenue		
City of Present Owner Wauwatosa	State WI	ZIP Code 53226

**3. Filled & Sealed Well / Drillhole / Borehole Information**

<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) <b>9/16/2018</b>
<input type="checkbox"/> Water Well	
<input checked="" type="checkbox"/> Borehole / Drillhole	If a Well Construction Report is available, please attach.
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <b>Geoprobe (Direct Push)</b>	
Formation Type: <input type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft.) <b>16</b>	Casing Diameter (in.)
Lower Drillhole Diameter (in.)	Casing Depth (ft.)
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)?	Depth to Water (feet) <b>8</b>

**4. Pump, Liner, Screen, Casing & Sealing Material**

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity		<input type="checkbox"/> Conductor Pipe-Pumped	
<input type="checkbox"/> Screened & Poured (Bentonite Chips)		<input checked="" type="checkbox"/> Other (Explain): <b>Gravity</b>	
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Concrete	
<input checked="" type="checkbox"/> Sand-Cement (Concrete) Grout		<input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	

**5. Material Used to Fill Well / Drillhole**

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Asphalt	Surface	4in		
Bentonite	4in	16ft		

**6. Comments**

All boreholes were filled with bentonite and sealed at the surface to match existing conditions.

**7. Supervision of Work**      **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing Hydrodynamics Consultants, Inc.	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 9/16/2018	Date Received	Noted By
Street or Route 5403 Patton Dr. Unit 215		Telephone Number (630 )	Comments	
City Lisle	State IL	ZIP Code 60532	Signature of Person Doing Work <i>Mike Wan</i>	Date Signed 11/9/2018

**Notice:** Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

<input type="checkbox"/> <b>Verification Only of Fill and Seal</b>	<b>Route to DNR Bureau:</b> <input type="checkbox"/> Drinking Water <input type="checkbox"/> Watershed/Wastewater <input checked="" type="checkbox"/> Remediation/Redevelopment <input type="checkbox"/> Waste Management <input type="checkbox"/> Other: _____
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1. Well Location Information	2. Facility / Owner Information
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County <b>Milwaukee</b>	WI Unique Well # of Removed Well _____	Hicap # _____	Facility Name <b>Westwood Cleaners</b>		
Latitude / Longitude (see instructions) 43° 03' 36.9" N		Format Code <input type="checkbox"/> DD <input checked="" type="checkbox"/> DDM	Method Code <input type="checkbox"/> GPS008 <input checked="" type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		Facility ID (FID or PWS) <b>241836100</b>
88° 01' 19.30W" W		Section <b>21</b>	Township <b>07 N</b>	Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W	License/Permit/Monitoring # <b>BRRTS # 02-41-552537 / NSB9</b>
¼ / ¼ NE or Gov't Lot #	¼ NW	Well Street Address <b>8731 West North Avenue</b>			Original Well Owner <b>Mr. Dong Sin</b>
Well City, Village or Town <b>Wauwatosa</b>		Well ZIP Code <b>53226</b>			Present Well Owner <b>Mr. Dong Sin</b>
Subdivision Name		Lot #			Mailing Address of Present Owner <b>8731 West North Avenue</b>
Reason for Removal from Service <b>Sampling Complete</b>		WI Unique Well # of Replacement Well _____			City of Present Owner <b>Wauwatosa</b>
State		ZIP Code			<b>WI 53226</b>

3. Filled & Sealed Well / Drillhole / Borehole Information	4. Pump, Liner, Screen, Casing & Sealing Material
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<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole	Original Construction Date (mm/dd/yyyy) <b>9/16/2018</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Pump and piping removed?	
If a Well Construction Report is available, please attach.		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Liner(s) removed?	
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <b>Geoprobe (Direst Push)</b>		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Liner(s) perforated?	
Formation Type: <input type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Screen removed?	
Total Well Depth From Ground Surface (ft.) <b>16</b>	Casing Diameter (in.)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Casing left in place?	
Lower Drillhole Diameter (in.)	Casing Depth (ft.)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Was casing cut off below surface?	
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	Depth to Water (feet) <b>8</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Did sealing material rise to surface?	
If yes, to what depth (feet)?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Did material settle after 24 hours?	
		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A If yes, was hole retopped?	
		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A If bentonite chips were used, were they hydrated with water from a known safe source?	
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <b>Gravity</b>			
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips			
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry			

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Asphalt	Surface	4in		
Bentonite	4in	16ft		

6. Comments
-------------

All boreholes were filled with bentonite and sealed at the surface to match existing conditions.

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <b>Hydrodynamics Consultants, Inc.</b>	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) <b>9/16/2018</b>	Date Received	Noted By	
Street or Route <b>5403 Patton Dr. Unit 215</b>			Telephone Number <b>( 630 )</b>		Comments
City <b>Lisle</b>	State <b>IL</b>	ZIP Code <b>60532</b>	Signature of Person Doing Work <i>Mike Wan</i>		Date Signed <b>11/9/2018</b>

**Notice:** Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

**Verification Only of Fill and Seal**

**Route to DNR Bureau:**

- Drinking Water       Watershed/Wastewater       Remediation/Redevelopment  
 Waste Management       Other: \_\_\_\_\_

**1. Well Location Information**      **2. Facility / Owner Information**

County <b>Milwaukee</b>		WI Unique Well # of Removed Well _____	Hicap # _____
Latitude / Longitude (see instructions) 43° 03' 36.9" N		Format Code <input type="checkbox"/> DD <input checked="" type="checkbox"/> DDM	Method Code <input type="checkbox"/> GPS008 <input checked="" type="checkbox"/> SCR002 <input type="checkbox"/> OTH001
88° 01' 19.30W" W		Section <b>21</b>	Township <b>07 N</b>
¼ / ¼ NE	¼ NW	Range <b>21</b>	<input checked="" type="checkbox"/> E <input type="checkbox"/> W
Well Street Address 8731 West North Avenue		Well ZIP Code 53226	
Well City, Village or Town Wauwatosa		Lot #	
Subdivision Name		Reason for Removal from Service Sampling Complete	
Well Street Address		WI Unique Well # of Replacement Well _____	

Facility Name Westwood Cleaners		
Facility ID (FID or PWS) 241836100		
License/Permit/Monitoring # BRRTS # 02-41-552537 / NSB10		
Original Well Owner Mr. Dong Sin		
Present Well Owner Mr. Dong Sin		
Mailing Address of Present Owner 8731 West North Avenue		
City of Present Owner Wauwatosa	State WI	ZIP Code 53226

**3. Filled & Sealed Well / Drillhole / Borehole Information**

<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) <b>9/16/2018</b>
<input type="checkbox"/> Water Well	If a Well Construction Report is available, please attach.
<input checked="" type="checkbox"/> Borehole / Drillhole	
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <b>Geoprobe (Direct Push)</b>	
Formation Type: <input type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft.) <b>16</b>	Casing Diameter (in.)
Lower Drillhole Diameter (in.)	Casing Depth (ft.)
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)?	Depth to Water (feet) <b>6</b>

**4. Pump, Liner, Screen, Casing & Sealing Material**

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity		<input type="checkbox"/> Conductor Pipe-Pumped	
<input type="checkbox"/> Screened & Poured (Bentonite Chips)		<input checked="" type="checkbox"/> Other (Explain): <b>Gravity</b>	
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Concrete	
<input checked="" type="checkbox"/> Sand-Cement (Concrete) Grout		<input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	

**5. Material Used to Fill Well / Drillhole**

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Cement	Surface	6in		
Bentonite	6in	16ft		

**6. Comments**

All boreholes were filled with bentonite and sealed at the surface to match existing conditions.

**7. Supervision of Work**      **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing Hydrodynamics Consultants, Inc.	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 9/16/2018	Date Received	Noted By
Street or Route 5403 Patton Dr. Unit 215		Telephone Number (630 )	Comments	
City Lisle	State IL	ZIP Code 60532	Signature of Person Doing Work <i>Mike Wan</i>	Date Signed 11/9/2018

**Notice:** Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

**Verification Only of Fill and Seal**

**Route to DNR Bureau:**

- Drinking Water       Watershed/Wastewater       Remediation/Redevelopment  
 Waste Management       Other: \_\_\_\_\_

**1. Well Location Information**      **2. Facility / Owner Information**

County <b>Milwaukee</b>		WI Unique Well # of Removed Well _____	Hicap # _____
Latitude / Longitude (see instructions) 43° 03' 36.9" N 88° 01' 19.30W" W		Format Code <input type="checkbox"/> DD <input checked="" type="checkbox"/> DDM	Method Code <input type="checkbox"/> GPS008 <input checked="" type="checkbox"/> SCR002 <input type="checkbox"/> OTH001
¼ / ¼ NE or Gov't Lot #	¼ NW	Section <b>21</b>	Township <b>07 N</b>
Well Street Address 8731 West North Avenue		Range <b>21</b>	<input checked="" type="checkbox"/> E <input type="checkbox"/> W
Well City, Village or Town <b>Wauwatosa</b>		Well ZIP Code <b>53226</b>	
Subdivision Name		Lot #	
Reason for Removal from Service Sampling Complete	WI Unique Well # of Replacement Well _____		

Facility Name <b>Westwood Cleaners</b>		
Facility ID (FID or PWS) <b>241836100</b>		
License/Permit/Monitoring # <b>BRRTS # 02-41-552537 / NSB11</b>		
Original Well Owner <b>Mr. Dong Sin</b>		
Present Well Owner <b>Mr. Dong Sin</b>		
Mailing Address of Present Owner <b>8731 West North Avenue</b>		
City of Present Owner <b>Wauwatosa</b>	State <b>WI</b>	ZIP Code <b>53226</b>

**3. Filled & Sealed Well / Drillhole / Borehole Information**

<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) <b>9/16/2018</b>
<input type="checkbox"/> Water Well	
<input checked="" type="checkbox"/> Borehole / Drillhole	If a Well Construction Report is available, please attach.
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <b>Geoprobe (Direst Push)</b>	
Formation Type: <input type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft.) <b>16</b>	Casing Diameter (in.)
Lower Drillhole Diameter (in.)	Casing Depth (ft.)
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)?	Depth to Water (feet) <b>6</b>

**4. Pump, Liner, Screen, Casing & Sealing Material**

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity		<input type="checkbox"/> Conductor Pipe-Pumped	
<input type="checkbox"/> Screened & Poured (Bentonite Chips)		<input checked="" type="checkbox"/> Other (Explain): <b>Gravity</b>	
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Concrete	
<input checked="" type="checkbox"/> Sand-Cement (Concrete) Grout		<input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	

**5. Material Used to Fill Well / Drillhole**

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Cement	Surface	6in		
Bentonite	6in	16ft		

**6. Comments**

All boreholes were filled with bentonite and sealed at the surface to match existing conditions.

**7. Supervision of Work**      **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing <b>Hydrodynamics Consultants, Inc.</b>	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) <b>9/16/2018</b>	Date Received	Noted By
Street or Route <b>5403 Patton Dr. Unit 215</b>		Telephone Number <b>( 630 )</b>	Comments	
City <b>Lisle</b>	State <b>IL</b>	ZIP Code <b>60532</b>	Signature of Person Doing Work <i>Mike Wan</i>	Date Signed <b>11/9/2018</b>



**Notice:** Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

<input type="checkbox"/> <b>Verification Only of Fill and Seal</b>	<b>Route to DNR Bureau:</b> <input type="checkbox"/> Drinking Water <input type="checkbox"/> Watershed/Wastewater <input checked="" type="checkbox"/> Remediation/Redevelopment <input type="checkbox"/> Waste Management <input type="checkbox"/> Other: _____
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1. Well Location Information	2. Facility / Owner Information
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County <b>Milwaukee</b>	WI Unique Well # of Removed Well _____	Hicap # _____	Facility Name <b>Westwood Cleaners</b>		
Latitude / Longitude (see instructions) 43° 03' 36.9" N		Format Code <input type="checkbox"/> DD <input checked="" type="checkbox"/> DDM	Facility ID (FID or PWS) 241836100		
88° 01' 19.30W" W		Method Code <input type="checkbox"/> GPS008 <input checked="" type="checkbox"/> SCR002 <input type="checkbox"/> OTH001	License/Permit/Monitoring # BRRTS # 02-41-552537 / NSB12		
¼ / ¼ NE	¼ NW	Section <b>21</b>	Township <b>07 N</b>	Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Original Well Owner <b>Mr. Dong Sin</b>
or Gov't Lot #		Well Street Address 8731 West North Avenue			Present Well Owner <b>Mr. Dong Sin</b>
Well City, Village or Town <b>Wauwatosa</b>			Mailing Address of Present Owner 8731 West North Avenue		
Subdivision Name			Well ZIP Code 53226	City of Present Owner <b>Wauwatosa</b>	State <b>WI</b>
			Lot #	ZIP Code 53226	

3. Filled & Sealed Well / Drillhole / Borehole Information	4. Pump, Liner, Screen, Casing & Sealing Material
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Reason for Removal from Service Sampling Complete	WI Unique Well # of Replacement Well _____	<input type="checkbox"/> Pump and piping removed?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Liner(s) removed?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Liner(s) perforated?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Screen removed?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Casing left in place?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Was casing cut off below surface?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Did sealing material rise to surface?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Did material settle after 24 hours?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A If yes, was hole retopped?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> If bentonite chips were used, were they hydrated with water from a known safe source?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Original Construction Date (mm/dd/yyyy) <b>9/16/2018</b> If a Well Construction Report is available, please attach.	
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <b>Geoprobe (Direct Push)</b>			
Formation Type: <input type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock			
Total Well Depth From Ground Surface (ft.) <b>16</b>	Casing Diameter (in.)	Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <b>Gravity</b>	
Lower Drillhole Diameter (in.)	Casing Depth (ft.)	Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips	
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	For Monitoring Wells and Monitoring Well Boreholes Only: <input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry		
If yes, to what depth (feet)?	Depth to Water (feet) <b>6</b>		

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Cement	Surface	6in		
Bentonite	6in	16ft		

6. Comments
-------------

All boreholes were filled with bentonite and sealed at the surface to match existing conditions.

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing Hydrodynamics Consultants, Inc.	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 9/16/2018	Date Received	Noted By	
Street or Route 5403 Patton Dr. Unit 215	Telephone Number (630 )		Comments		
City Lisle	State IL	ZIP Code 60532	Signature of Person Doing Work <i>Mike Wan</i>		Date Signed 11/9/2018

**APPENDIX VI**  
**SAMPLE CHAIN-OF-CUSTODY AND**  
**LABORATORY ANALYTICAL RESULTS**



# Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

September 29, 2018

Hydrodynamics Consultant, Inc.  
5403 Patton Drive  
Lisle, IL 60532

Telephone: (630) 724-0098  
Fax: (800) 881-2051

Analytical Report for STAT Work Order: 18090542 Revision 0

RE: Westwood Cleaners, 8731 West North Ave., Wauwatosa, WI 53226

Dear Dr. Yong Yu:

STAT Analysis received 36 samples for the referenced project on 9/17/2018 4:28:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements specified in WI DNR Chapter NR 149 (Certification Number 399099910). Analyses were performed in accordance with methods as referenced on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. A listing of accredited methods/parameters can also be provided.

For sample results requiring adjustment for dilutions, the detection and reporting limits are adjusted for the corresponding dilution factor. Analytical results expressed on a dry weight basis have units of mg/Kg-dry or  $\mu\text{g}/\text{Kg-dry}$  on the analytical report. Corresponding reporting limits are adjusted for dry weight.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,

Craig Chawla  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

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**Client:** Hydrodynamics Consultant, Inc.**Project:** Westwood Cleaners, 8731 West North Ave., Wauwatos**Work Order Sample Summary****Work Order:** 18090542 Revision 0

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<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
18090542-001A	NSB1-A		9/16/2018 9:38:00 AM	9/17/2018
18090542-001B	NSB1-A		9/16/2018 9:38:00 AM	9/17/2018
18090542-002A	NSB1-B		9/16/2018 9:53:00 AM	9/17/2018
18090542-002B	NSB1-B		9/16/2018 9:53:00 AM	9/17/2018
18090542-003A	NSB1-C		9/16/2018 10:09:00 AM	9/17/2018
18090542-003B	NSB1-C		9/16/2018 10:09:00 AM	9/17/2018
18090542-004A	NSB2-A		9/16/2018 10:26:00 AM	9/17/2018
18090542-004B	NSB2-A		9/16/2018 10:26:00 AM	9/17/2018
18090542-005A	NSB2-B		9/16/2018 10:43:00 AM	9/17/2018
18090542-005B	NSB2-B		9/16/2018 10:43:00 AM	9/17/2018
18090542-006A	NSB2-C		9/16/2018 10:59:00 AM	9/17/2018
18090542-006B	NSB2-C		9/16/2018 10:59:00 AM	9/17/2018
18090542-007A	NSB3-A		9/16/2018 11:15:00 AM	9/17/2018
18090542-007B	NSB3-A		9/16/2018 11:15:00 AM	9/17/2018
18090542-008A	NSB3-B		9/16/2018 11:31:00 AM	9/17/2018
18090542-008B	NSB3-B		9/16/2018 11:31:00 AM	9/17/2018
18090542-009A	NSB3-C		9/16/2018 11:47:00 AM	9/17/2018
18090542-009B	NSB3-C		9/16/2018 11:47:00 AM	9/17/2018
18090542-010A	NSB4-A		9/16/2018 12:05:00 PM	9/17/2018
18090542-010B	NSB4-A		9/16/2018 12:05:00 PM	9/17/2018
18090542-011A	NSB4-B		9/16/2018 12:21:00 PM	9/17/2018
18090542-011B	NSB4-B		9/16/2018 12:21:00 PM	9/17/2018
18090542-012A	NSB4-C		9/16/2018 12:38:00 PM	9/17/2018
18090542-012B	NSB4-C		9/16/2018 12:38:00 PM	9/17/2018
18090542-013A	NSB5-A		9/16/2018 12:55:00 PM	9/17/2018
18090542-013B	NSB5-A		9/16/2018 12:55:00 PM	9/17/2018
18090542-014A	NSB5-B		9/16/2018 1:10:00 PM	9/17/2018
18090542-014B	NSB5-B		9/16/2018 1:10:00 PM	9/17/2018
18090542-015A	NSB5-C		9/16/2018 1:26:00 PM	9/17/2018
18090542-015B	NSB5-C		9/16/2018 1:26:00 PM	9/17/2018
18090542-016A	NSB6-A		9/16/2018 1:45:00 PM	9/17/2018
18090542-016B	NSB6-A		9/16/2018 1:45:00 PM	9/17/2018
18090542-017A	NSB6-B		9/16/2018 2:01:00 PM	9/17/2018
18090542-017B	NSB6-B		9/16/2018 2:01:00 PM	9/17/2018
18090542-018A	NSB6-C		9/16/2018 2:18:00 PM	9/17/2018
18090542-018B	NSB6-C		9/16/2018 2:18:00 PM	9/17/2018
18090542-019A	NSB7-A		9/16/2018 2:35:00 PM	9/17/2018
18090542-019B	NSB7-A		9/16/2018 2:35:00 PM	9/17/2018

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**Client:** Hydrodynamics Consultant, Inc.

**Project:** Westwood Cleaners, 8731 West North Ave., Wauwatosa

**Work Order Sample Summary**

**Work Order:** 18090542 Revision 0

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Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
18090542-020A	NSB7-B		9/16/2018 2:50:00 PM	9/17/2018
18090542-020B	NSB7-B		9/16/2018 2:50:00 PM	9/17/2018
18090542-021A	NSB7-C		9/16/2018 3:06:00 PM	9/17/2018
18090542-021B	NSB7-C		9/16/2018 3:06:00 PM	9/17/2018
18090542-022A	NSB8-A		9/16/2018 3:25:00 PM	9/17/2018
18090542-022B	NSB8-A		9/16/2018 3:25:00 PM	9/17/2018
18090542-023A	NSB8-B		9/16/2018 3:40:00 PM	9/17/2018
18090542-023B	NSB8-B		9/16/2018 3:40:00 PM	9/17/2018
18090542-024A	NSB8-C		9/16/2018 3:56:00 PM	9/17/2018
18090542-024B	NSB8-C		9/16/2018 3:56:00 PM	9/17/2018
18090542-025A	NSB9-A		9/16/2018 4:15:00 PM	9/17/2018
18090542-025B	NSB9-A		9/16/2018 4:15:00 PM	9/17/2018
18090542-026A	NSB9-B		9/16/2018 4:30:00 PM	9/17/2018
18090542-026B	NSB9-B		9/16/2018 4:30:00 PM	9/17/2018
18090542-027A	NSB9-C		9/16/2018 4:46:00 PM	9/17/2018
18090542-027B	NSB9-C		9/16/2018 4:46:00 PM	9/17/2018
18090542-028A	NSB10-A		9/16/2018 5:03:00 PM	9/17/2018
18090542-028B	NSB10-A		9/16/2018 5:03:00 PM	9/17/2018
18090542-029A	NSB10-B		9/16/2018 5:17:00 PM	9/17/2018
18090542-029B	NSB10-B		9/16/2018 5:17:00 PM	9/17/2018
18090542-030A	NSB10-C		9/16/2018 5:33:00 PM	9/17/2018
18090542-030B	NSB10-C		9/16/2018 5:33:00 PM	9/17/2018
18090542-031A	NSB11-A		9/16/2018 5:50:00 PM	9/17/2018
18090542-031B	NSB11-A		9/16/2018 5:50:00 PM	9/17/2018
18090542-032A	NSB11-B		9/16/2018 6:06:00 PM	9/17/2018
18090542-032B	NSB11-B		9/16/2018 6:06:00 PM	9/17/2018
18090542-033A	NSB11-C		9/16/2018 6:21:00 PM	9/17/2018
18090542-033B	NSB11-C		9/16/2018 6:21:00 PM	9/17/2018
18090542-034A	NSB12-A		9/16/2018 6:38:00 PM	9/17/2018
18090542-034B	NSB12-A		9/16/2018 6:38:00 PM	9/17/2018
18090542-035A	NSB12-B		9/16/2018 6:53:00 PM	9/17/2018
18090542-035B	NSB12-B		9/16/2018 6:53:00 PM	9/17/2018
18090542-036A	NSB12-C		9/16/2018 7:10:00 PM	9/17/2018
18090542-036B	NSB12-C		9/16/2018 7:10:00 PM	9/17/2018

**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 29, 2018

**ANALYTICAL RESULTS**

Date Printed: September 29, 2018

**CLIENT:** Hydrodynamics Consultant, Inc.  
**Work Order:** 18090542 Revision 0  
**Project:** Westwood Cleaners, 8731 West North Ave., Wauwato  
**Lab ID:** 18090542-001

**Client Sample ID:** NSB1-A  
**Collection Date:** 9/16/2018 9:38:00 AM  
**Matrix:** SOIL

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		<b>Prep Date: 9/18/2018</b>		<b>Analyst: MJK</b>	
Acetone	0.039	0.072	0.0023	J	mg/Kg-dry	1	9/19/2018
Benzene	0.0030	0.0048	0.00019	J	mg/Kg-dry	1	9/19/2018
Bromodichloromethane	ND	0.0048	0.00038		mg/Kg-dry	1	9/19/2018
Bromoform	ND	0.0048	0.00038		mg/Kg-dry	1	9/19/2018
Bromomethane	ND	0.0097	0.00048		mg/Kg-dry	1	9/19/2018
2-Butanone	ND	0.072	0.0014		mg/Kg-dry	1	9/19/2018
Carbon disulfide	0.00086	0.048	0.00019	J	mg/Kg-dry	1	9/19/2018
Carbon tetrachloride	ND	0.0048	0.00029		mg/Kg-dry	1	9/19/2018
Chlorobenzene	ND	0.0048	0.00019		mg/Kg-dry	1	9/19/2018
Chloroethane	ND	0.0097	0.00038		mg/Kg-dry	1	9/19/2018
Chloroform	ND	0.0048	0.00019		mg/Kg-dry	1	9/19/2018
Chloromethane	ND	0.0097	0.00029		mg/Kg-dry	1	9/19/2018
Dibromochloromethane	ND	0.0048	0.00038		mg/Kg-dry	1	9/19/2018
1,1-Dichloroethane	ND	0.0048	0.00029		mg/Kg-dry	1	9/19/2018
1,2-Dichloroethane	ND	0.0048	0.00057		mg/Kg-dry	1	9/19/2018
1,1-Dichloroethene	ND	0.0048	0.00029		mg/Kg-dry	1	9/19/2018
cis-1,2-Dichloroethene	ND	0.0048	0.00029		mg/Kg-dry	1	9/19/2018
trans-1,2-Dichloroethene	ND	0.0048	0.00029		mg/Kg-dry	1	9/19/2018
1,2-Dichloropropane	ND	0.0048	0.00038		mg/Kg-dry	1	9/19/2018
cis-1,3-Dichloropropene	ND	0.0019	0.00019		mg/Kg-dry	1	9/19/2018
trans-1,3-Dichloropropene	ND	0.0019	0.00029		mg/Kg-dry	1	9/19/2018
Ethylbenzene	0.0019	0.0048	0.000097	J	mg/Kg-dry	1	9/19/2018
2-Hexanone	ND	0.019	0.00076		mg/Kg-dry	1	9/19/2018
4-Methyl-2-pentanone	ND	0.019	0.00029		mg/Kg-dry	1	9/19/2018
Methylene chloride	0.0010	0.0097	0.00076	J	mg/Kg-dry	1	9/19/2018
Methyl tert-butyl ether	ND	0.0048	0.00019		mg/Kg-dry	1	9/19/2018
Styrene	ND	0.0048	0.00019		mg/Kg-dry	1	9/19/2018
1,1,2,2-Tetrachloroethane	ND	0.0048	0.00019		mg/Kg-dry	1	9/19/2018
Tetrachloroethene	ND	0.0048	0.00029		mg/Kg-dry	1	9/19/2018
Toluene	0.0058	0.0048	0.00019		mg/Kg-dry	1	9/19/2018
1,1,1-Trichloroethane	ND	0.0048	0.00019		mg/Kg-dry	1	9/19/2018
1,1,2-Trichloroethane	ND	0.0048	0.00048		mg/Kg-dry	1	9/19/2018
Trichloroethene	ND	0.0048	0.00019		mg/Kg-dry	1	9/19/2018
Vinyl chloride	ND	0.0048	0.00038		mg/Kg-dry	1	9/19/2018
Xylenes, Total	0.0025	0.014	0.00038	J	mg/Kg-dry	1	9/19/2018
<b>Percent Moisture</b>		<b>D2974</b>		<b>Prep Date: 9/18/2018</b>		<b>Analyst: VA</b>	
Percent Moisture	16.1	0.2	0.1	*	wt%	1	9/19/2018

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below reporting limit  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter  
 RL/MDL - Reporting Limit / Method Detection Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 29, 2018

**ANALYTICAL RESULTS**

Date Printed: September 29, 2018

**CLIENT:** Hydrodynamics Consultant, Inc.  
**Work Order:** 18090542 Revision 0  
**Project:** Westwood Cleaners, 8731 West North Ave., Wauwato  
**Lab ID:** 18090542-002

**Client Sample ID:** NSB1-B  
**Collection Date:** 9/16/2018 9:53:00 AM  
**Matrix:** SOIL

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		<b>Prep Date: 9/18/2018</b>		<b>Analyst: AET</b>	
Acetone	0.017	0.071	0.0022	J	mg/Kg-dry	1	9/19/2018
Benzene	0.00082	0.0047	0.00019	J	mg/Kg-dry	1	9/19/2018
Bromodichloromethane	ND	0.0047	0.00038		mg/Kg-dry	1	9/19/2018
Bromoform	ND	0.0047	0.00038		mg/Kg-dry	1	9/19/2018
Bromomethane	ND	0.0095	0.00047		mg/Kg-dry	1	9/19/2018
2-Butanone	0.0045	0.071	0.0014	J	mg/Kg-dry	1	9/19/2018
Carbon disulfide	0.00072	0.047	0.00019	J	mg/Kg-dry	1	9/19/2018
Carbon tetrachloride	ND	0.0047	0.00028		mg/Kg-dry	1	9/19/2018
Chlorobenzene	ND	0.0047	0.00019		mg/Kg-dry	1	9/19/2018
Chloroethane	ND	0.0095	0.00038		mg/Kg-dry	1	9/19/2018
Chloroform	ND	0.0047	0.00019		mg/Kg-dry	1	9/19/2018
Chloromethane	ND	0.0095	0.00028		mg/Kg-dry	1	9/19/2018
Dibromochloromethane	ND	0.0047	0.00038		mg/Kg-dry	1	9/19/2018
1,1-Dichloroethane	ND	0.0047	0.00028		mg/Kg-dry	1	9/19/2018
1,2-Dichloroethane	ND	0.0047	0.00057		mg/Kg-dry	1	9/19/2018
1,1-Dichloroethene	ND	0.0047	0.00028		mg/Kg-dry	1	9/19/2018
cis-1,2-Dichloroethene	ND	0.0047	0.00028		mg/Kg-dry	1	9/19/2018
trans-1,2-Dichloroethene	ND	0.0047	0.00028		mg/Kg-dry	1	9/19/2018
1,2-Dichloropropane	ND	0.0047	0.00038		mg/Kg-dry	1	9/19/2018
cis-1,3-Dichloropropene	ND	0.0019	0.00019		mg/Kg-dry	1	9/19/2018
trans-1,3-Dichloropropene	ND	0.0019	0.00028		mg/Kg-dry	1	9/19/2018
Ethylbenzene	0.00040	0.0047	0.000095	J	mg/Kg-dry	1	9/19/2018
2-Hexanone	ND	0.019	0.00076		mg/Kg-dry	1	9/19/2018
4-Methyl-2-pentanone	ND	0.019	0.00028		mg/Kg-dry	1	9/19/2018
Methylene chloride	ND	0.0095	0.00076		mg/Kg-dry	1	9/19/2018
Methyl tert-butyl ether	ND	0.0047	0.00019		mg/Kg-dry	1	9/19/2018
Styrene	ND	0.0047	0.00019		mg/Kg-dry	1	9/19/2018
1,1,2,2-Tetrachloroethane	ND	0.0047	0.00019		mg/Kg-dry	1	9/19/2018
Tetrachloroethene	0.00055	0.0047	0.00028	J	mg/Kg-dry	1	9/19/2018
Toluene	0.0012	0.0047	0.00019	J	mg/Kg-dry	1	9/19/2018
1,1,1-Trichloroethane	ND	0.0047	0.00019		mg/Kg-dry	1	9/19/2018
1,1,2-Trichloroethane	ND	0.0047	0.00047		mg/Kg-dry	1	9/19/2018
Trichloroethene	ND	0.0047	0.00019		mg/Kg-dry	1	9/19/2018
Vinyl chloride	ND	0.0047	0.00038		mg/Kg-dry	1	9/19/2018
Xylenes, Total	0.00089	0.014	0.00038	J	mg/Kg-dry	1	9/19/2018
<b>Percent Moisture</b>		<b>D2974</b>		<b>Prep Date: 9/18/2018</b>		<b>Analyst: VA</b>	
Percent Moisture	16.8	0.2	0.1	*	wt%	1	9/19/2018

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below reporting limit  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL/MDL - Reporting Limit / Method Detection Limit for the analysis  
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 E - Value above quantitation range  
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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 29, 2018

**ANALYTICAL RESULTS**

Date Printed: September 29, 2018

**CLIENT:** Hydrodynamics Consultant, Inc.  
**Work Order:** 18090542 Revision 0  
**Project:** Westwood Cleaners, 8731 West North Ave., Wauwato  
**Lab ID:** 18090542-003

**Client Sample ID:** NSB1-C  
**Collection Date:** 9/16/2018 10:09:00 AM  
**Matrix:** SOIL

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS****SW5035/8260B**

Prep Date: 9/18/2018

Analyst: AET

Acetone	0.034	0.069	0.0021	J	mg/Kg-dry	1	9/19/2018
Benzene	0.00067	0.0046	0.00018	J	mg/Kg-dry	1	9/19/2018
Bromodichloromethane	ND	0.0046	0.00037		mg/Kg-dry	1	9/19/2018
Bromoform	ND	0.0046	0.00037		mg/Kg-dry	1	9/19/2018
Bromomethane	ND	0.0092	0.00046		mg/Kg-dry	1	9/19/2018
2-Butanone	ND	0.069	0.0014		mg/Kg-dry	1	9/19/2018
Carbon disulfide	0.00092	0.046	0.00018	J	mg/Kg-dry	1	9/19/2018
Carbon tetrachloride	ND	0.0046	0.00028		mg/Kg-dry	1	9/19/2018
Chlorobenzene	ND	0.0046	0.00018		mg/Kg-dry	1	9/19/2018
Chloroethane	ND	0.0092	0.00037		mg/Kg-dry	1	9/19/2018
Chloroform	ND	0.0046	0.00018		mg/Kg-dry	1	9/19/2018
Chloromethane	ND	0.0092	0.00028		mg/Kg-dry	1	9/19/2018
Dibromochloromethane	ND	0.0046	0.00037		mg/Kg-dry	1	9/19/2018
1,1-Dichloroethane	ND	0.0046	0.00028		mg/Kg-dry	1	9/19/2018
1,2-Dichloroethane	ND	0.0046	0.00055		mg/Kg-dry	1	9/19/2018
1,1-Dichloroethene	ND	0.0046	0.00028		mg/Kg-dry	1	9/19/2018
cis-1,2-Dichloroethene	ND	0.0046	0.00028		mg/Kg-dry	1	9/19/2018
trans-1,2-Dichloroethene	ND	0.0046	0.00028		mg/Kg-dry	1	9/19/2018
1,2-Dichloropropane	ND	0.0046	0.00037		mg/Kg-dry	1	9/19/2018
cis-1,3-Dichloropropene	ND	0.0018	0.00018		mg/Kg-dry	1	9/19/2018
trans-1,3-Dichloropropene	ND	0.0018	0.00028		mg/Kg-dry	1	9/19/2018
Ethylbenzene	0.00031	0.0046	0.000092	J	mg/Kg-dry	1	9/19/2018
2-Hexanone	ND	0.018	0.00074		mg/Kg-dry	1	9/19/2018
4-Methyl-2-pentanone	ND	0.018	0.00028		mg/Kg-dry	1	9/19/2018
Methylene chloride	ND	0.0092	0.00074		mg/Kg-dry	1	9/19/2018
Methyl tert-butyl ether	ND	0.0046	0.00018		mg/Kg-dry	1	9/19/2018
Styrene	ND	0.0046	0.00018		mg/Kg-dry	1	9/19/2018
1,1,2,2-Tetrachloroethane	ND	0.0046	0.00018		mg/Kg-dry	1	9/19/2018
Tetrachloroethene	0.017	0.0046	0.00028		mg/Kg-dry	1	9/19/2018
Toluene	0.00092	0.0046	0.00018	J	mg/Kg-dry	1	9/19/2018
1,1,1-Trichloroethane	ND	0.0046	0.00018		mg/Kg-dry	1	9/19/2018
1,1,2-Trichloroethane	ND	0.0046	0.00046		mg/Kg-dry	1	9/19/2018
Trichloroethene	ND	0.0046	0.00018		mg/Kg-dry	1	9/19/2018
Vinyl chloride	ND	0.0046	0.00037		mg/Kg-dry	1	9/19/2018
Xylenes, Total	0.00048	0.014	0.00037	J	mg/Kg-dry	1	9/19/2018

**Percent Moisture****D2974**

Prep Date: 9/18/2018

Analyst: VA

Percent Moisture	11.8	0.2	0.1	*	wt%	1	9/19/2018
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**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below reporting limit

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL/MDL - Reporting Limit / Method Detection Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded



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Date Reported: September 29, 2018

**ANALYTICAL RESULTS**

Date Printed: September 29, 2018

CLIENT: Hydrodynamics Consultant, Inc.

Client Sample ID: NSB2-A

Work Order: 18090542 Revision 0

Collection Date: 9/16/2018 10:26:00 AM

Project: Westwood Cleaners, 8731 West North Ave., Wauwato

Matrix: SOIL

Lab ID: 18090542-004

**Analyses Result RL MDL Qualifier Units DF Date Analyzed****Volatile Organic Compounds by GC/MS****SW5035/8260B**

Prep Date: 9/18/2018

Analyst: AET

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Acetone	0.012	0.073	0.0022	J	mg/Kg-dry	1	9/19/2018
Benzene	0.00043	0.0048	0.00019	J	mg/Kg-dry	1	9/19/2018
Bromodichloromethane	ND	0.0048	0.00039		mg/Kg-dry	1	9/19/2018
Bromoform	ND	0.0048	0.00039		mg/Kg-dry	1	9/19/2018
Bromomethane	ND	0.0097	0.00048		mg/Kg-dry	1	9/19/2018
2-Butanone	ND	0.073	0.0015		mg/Kg-dry	1	9/19/2018
Carbon disulfide	0.00019	0.048	0.00019	J	mg/Kg-dry	1	9/19/2018
Carbon tetrachloride	ND	0.0048	0.00029		mg/Kg-dry	1	9/19/2018
Chlorobenzene	ND	0.0048	0.00019		mg/Kg-dry	1	9/19/2018
Chloroethane	ND	0.0097	0.00039		mg/Kg-dry	1	9/19/2018
Chloroform	ND	0.0048	0.00019		mg/Kg-dry	1	9/19/2018
Chloromethane	ND	0.0097	0.00029		mg/Kg-dry	1	9/19/2018
Dibromochloromethane	ND	0.0048	0.00039		mg/Kg-dry	1	9/19/2018
1,1-Dichloroethane	ND	0.0048	0.00029		mg/Kg-dry	1	9/19/2018
1,2-Dichloroethane	ND	0.0048	0.00058		mg/Kg-dry	1	9/19/2018
1,1-Dichloroethene	ND	0.0048	0.00029		mg/Kg-dry	1	9/19/2018
cis-1,2-Dichloroethene	ND	0.0048	0.00029		mg/Kg-dry	1	9/19/2018
trans-1,2-Dichloroethene	ND	0.0048	0.00029		mg/Kg-dry	1	9/19/2018
1,2-Dichloropropane	ND	0.0048	0.00039		mg/Kg-dry	1	9/19/2018
cis-1,3-Dichloropropene	ND	0.0019	0.00019		mg/Kg-dry	1	9/19/2018
trans-1,3-Dichloropropene	ND	0.0019	0.00029		mg/Kg-dry	1	9/19/2018
Ethylbenzene	0.00015	0.0048	0.000097	J	mg/Kg-dry	1	9/19/2018
2-Hexanone	ND	0.019	0.00078		mg/Kg-dry	1	9/19/2018
4-Methyl-2-pentanone	ND	0.019	0.00029		mg/Kg-dry	1	9/19/2018
Methylene chloride	ND	0.0097	0.00078		mg/Kg-dry	1	9/19/2018
Methyl tert-butyl ether	ND	0.0048	0.00019		mg/Kg-dry	1	9/19/2018
Styrene	ND	0.0048	0.00019		mg/Kg-dry	1	9/19/2018
1,1,2,2-Tetrachloroethane	ND	0.0048	0.00019		mg/Kg-dry	1	9/19/2018
Tetrachloroethene	ND	0.0048	0.00029		mg/Kg-dry	1	9/19/2018
Toluene	0.00052	0.0048	0.00019	J	mg/Kg-dry	1	9/19/2018
1,1,1-Trichloroethane	ND	0.0048	0.00019		mg/Kg-dry	1	9/19/2018
1,1,2-Trichloroethane	ND	0.0048	0.00048		mg/Kg-dry	1	9/19/2018
Trichloroethene	ND	0.0048	0.00019		mg/Kg-dry	1	9/19/2018
Vinyl chloride	ND	0.0048	0.00039		mg/Kg-dry	1	9/19/2018
Xylenes, Total	ND	0.015	0.00039		mg/Kg-dry	1	9/19/2018

**Percent Moisture****D2974**

Prep Date: 9/18/2018

Analyst: VA

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Percent Moisture	14.9	0.2	0.1	*	wt%	1	9/19/2018

**Qualifiers:**

ND - Not Detected at the Reporting Limit

RL/MDL - Reporting Limit / Method Detection Limit for the analysis

J - Analyte detected below reporting limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 29, 2018

**ANALYTICAL RESULTS**

Date Printed: September 29, 2018

**CLIENT:** Hydrodynamics Consultant, Inc.  
**Work Order:** 18090542 Revision 0  
**Project:** Westwood Cleaners, 8731 West North Ave., Wauwato  
**Lab ID:** 18090542-005

**Client Sample ID:** NSB2-B  
**Collection Date:** 9/16/2018 10:43:00 AM  
**Matrix:** SOIL

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
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Volatile Organic Compounds by GC/MS	SW5035/8260B			Prep Date: 9/18/2018		Analyst: AET	
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Acetone	0.016	0.058	0.0018	J	mg/Kg-dry	1	9/19/2018
Benzene	0.00077	0.0038	0.00015	J	mg/Kg-dry	1	9/19/2018
Bromodichloromethane	ND	0.0038	0.00031		mg/Kg-dry	1	9/19/2018
Bromoform	ND	0.0038	0.00031		mg/Kg-dry	1	9/19/2018
Bromomethane	ND	0.0077	0.00038		mg/Kg-dry	1	9/19/2018
2-Butanone	0.0037	0.058	0.0012	J	mg/Kg-dry	1	9/19/2018
Carbon disulfide	0.00032	0.038	0.00015	J	mg/Kg-dry	1	9/19/2018
Carbon tetrachloride	ND	0.0038	0.00023		mg/Kg-dry	1	9/19/2018
Chlorobenzene	ND	0.0038	0.00015		mg/Kg-dry	1	9/19/2018
Chloroethane	ND	0.0077	0.00031		mg/Kg-dry	1	9/19/2018
Chloroform	ND	0.0038	0.00015		mg/Kg-dry	1	9/19/2018
Chloromethane	ND	0.0077	0.00023		mg/Kg-dry	1	9/19/2018
Dibromochloromethane	ND	0.0038	0.00031		mg/Kg-dry	1	9/19/2018
1,1-Dichloroethane	ND	0.0038	0.00023		mg/Kg-dry	1	9/19/2018
1,2-Dichloroethane	ND	0.0038	0.00046		mg/Kg-dry	1	9/19/2018
1,1-Dichloroethene	ND	0.0038	0.00023		mg/Kg-dry	1	9/19/2018
cis-1,2-Dichloroethene	ND	0.0038	0.00023		mg/Kg-dry	1	9/19/2018
trans-1,2-Dichloroethene	ND	0.0038	0.00023		mg/Kg-dry	1	9/19/2018
1,2-Dichloropropane	ND	0.0038	0.00031		mg/Kg-dry	1	9/19/2018
cis-1,3-Dichloropropene	ND	0.0015	0.00015		mg/Kg-dry	1	9/19/2018
trans-1,3-Dichloropropene	ND	0.0015	0.00023		mg/Kg-dry	1	9/19/2018
Ethylbenzene	0.00018	0.0038	0.000077	J	mg/Kg-dry	1	9/19/2018
2-Hexanone	ND	0.015	0.00061		mg/Kg-dry	1	9/19/2018
4-Methyl-2-pentanone	ND	0.015	0.00023		mg/Kg-dry	1	9/19/2018
Methylene chloride	ND	0.0077	0.00061		mg/Kg-dry	1	9/19/2018
Methyl tert-butyl ether	ND	0.0038	0.00015		mg/Kg-dry	1	9/19/2018
Styrene	ND	0.0038	0.00015		mg/Kg-dry	1	9/19/2018
1,1,2,2-Tetrachloroethane	ND	0.0038	0.00015		mg/Kg-dry	1	9/19/2018
Tetrachloroethene	0.00047	0.0038	0.00023	J	mg/Kg-dry	1	9/19/2018
Toluene	0.00063	0.0038	0.00015	J	mg/Kg-dry	1	9/19/2018
1,1,1-Trichloroethane	ND	0.0038	0.00015		mg/Kg-dry	1	9/19/2018
1,1,2-Trichloroethane	ND	0.0038	0.00038		mg/Kg-dry	1	9/19/2018
Trichloroethene	ND	0.0038	0.00015		mg/Kg-dry	1	9/19/2018
Vinyl chloride	ND	0.0038	0.00031		mg/Kg-dry	1	9/19/2018
Xylenes, Total	ND	0.012	0.00031		mg/Kg-dry	1	9/19/2018

Percent Moisture	D2974			Prep Date: 9/18/2018		Analyst: VA	
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Percent Moisture	10.2	0.2	0.1	*	wt%	1	9/19/2018
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**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below reporting limit  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL/MDL - Reporting Limit / Method Detection Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 29, 2018

**ANALYTICAL RESULTS**

Date Printed: September 29, 2018

**CLIENT:** Hydrodynamics Consultant, Inc.  
**Work Order:** 18090542 Revision 0  
**Project:** Westwood Cleaners, 8731 West North Ave., Wauwato  
**Lab ID:** 18090542-006

**Client Sample ID:** NSB2-C  
**Collection Date:** 9/16/2018 10:59:00 AM  
**Matrix:** SOIL

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		<b>Prep Date: 9/18/2018</b>		<b>Analyst: AET</b>	
Acetone	0.013	0.062	0.0019	J	mg/Kg-dry	1	9/19/2018
Benzene	0.0052	0.0042	0.00017		mg/Kg-dry	1	9/19/2018
Bromodichloromethane	ND	0.0042	0.00033		mg/Kg-dry	1	9/19/2018
Bromoform	ND	0.0042	0.00033		mg/Kg-dry	1	9/19/2018
Bromomethane	ND	0.0083	0.00042		mg/Kg-dry	1	9/19/2018
2-Butanone	0.0028	0.062	0.0012	J	mg/Kg-dry	1	9/19/2018
Carbon disulfide	0.00064	0.042	0.00017	J	mg/Kg-dry	1	9/19/2018
Carbon tetrachloride	ND	0.0042	0.00025		mg/Kg-dry	1	9/19/2018
Chlorobenzene	ND	0.0042	0.00017		mg/Kg-dry	1	9/19/2018
Chloroethane	ND	0.0083	0.00033		mg/Kg-dry	1	9/19/2018
Chloroform	ND	0.0042	0.00017		mg/Kg-dry	1	9/19/2018
Chloromethane	ND	0.0083	0.00025		mg/Kg-dry	1	9/19/2018
Dibromochloromethane	ND	0.0042	0.00033		mg/Kg-dry	1	9/19/2018
1,1-Dichloroethane	ND	0.0042	0.00025		mg/Kg-dry	1	9/19/2018
1,2-Dichloroethane	ND	0.0042	0.0005		mg/Kg-dry	1	9/19/2018
1,1-Dichloroethene	ND	0.0042	0.00025		mg/Kg-dry	1	9/19/2018
cis-1,2-Dichloroethene	ND	0.0042	0.00025		mg/Kg-dry	1	9/19/2018
trans-1,2-Dichloroethene	ND	0.0042	0.00025		mg/Kg-dry	1	9/19/2018
1,2-Dichloropropane	ND	0.0042	0.00033		mg/Kg-dry	1	9/19/2018
cis-1,3-Dichloropropene	ND	0.0017	0.00017		mg/Kg-dry	1	9/19/2018
trans-1,3-Dichloropropene	ND	0.0017	0.00025		mg/Kg-dry	1	9/19/2018
Ethylbenzene	0.0024	0.0042	0.000083	J	mg/Kg-dry	1	9/19/2018
2-Hexanone	ND	0.017	0.00067		mg/Kg-dry	1	9/19/2018
4-Methyl-2-pentanone	ND	0.017	0.00025		mg/Kg-dry	1	9/19/2018
Methylene chloride	ND	0.0083	0.00067		mg/Kg-dry	1	9/19/2018
Methyl tert-butyl ether	ND	0.0042	0.00017		mg/Kg-dry	1	9/19/2018
Styrene	ND	0.0042	0.00017		mg/Kg-dry	1	9/19/2018
1,1,2,2-Tetrachloroethane	ND	0.0042	0.00017		mg/Kg-dry	1	9/19/2018
Tetrachloroethene	0.038	0.0042	0.00025		mg/Kg-dry	1	9/19/2018
Toluene	0.0087	0.0042	0.00017		mg/Kg-dry	1	9/19/2018
1,1,1-Trichloroethane	ND	0.0042	0.00017		mg/Kg-dry	1	9/19/2018
1,1,2-Trichloroethane	ND	0.0042	0.00042		mg/Kg-dry	1	9/19/2018
Trichloroethene	ND	0.0042	0.00017		mg/Kg-dry	1	9/19/2018
Vinyl chloride	ND	0.0042	0.00033		mg/Kg-dry	1	9/19/2018
Xylenes, Total	0.0047	0.012	0.00033	J	mg/Kg-dry	1	9/19/2018
<b>Percent Moisture</b>		<b>D2974</b>		<b>Prep Date: 9/18/2018</b>		<b>Analyst: VA</b>	
Percent Moisture	14.2	0.2	0.1	*	wt%	1	9/19/2018

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below reporting limit  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL/MDL - Reporting Limit / Method Detection Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 29, 2018

**ANALYTICAL RESULTS**

Date Printed: September 29, 2018

CLIENT: Hydrodynamics Consultant, Inc.

Client Sample ID: NSB3-A

Work Order: 18090542 Revision 0

Collection Date: 9/16/2018 11:15:00 AM

Project: Westwood Cleaners, 8731 West North Ave., Wauwato

Matrix: SOIL

Lab ID: 18090542-007

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS****SW5035/8260B**

Prep Date: 9/18/2018

Analyst: AET

Acetone	0.031	0.083	0.0025	J	mg/Kg-dry	1	9/19/2018
Benzene	0.00045	0.0055	0.00022	J	mg/Kg-dry	1	9/19/2018
Bromodichloromethane	ND	0.0055	0.00044		mg/Kg-dry	1	9/19/2018
Bromoform	ND	0.0055	0.00044		mg/Kg-dry	1	9/19/2018
Bromomethane	ND	0.011	0.00055		mg/Kg-dry	1	9/19/2018
2-Butanone	0.0053	0.083	0.0017	J	mg/Kg-dry	1	9/19/2018
Carbon disulfide	0.00077	0.055	0.00022	J	mg/Kg-dry	1	9/19/2018
Carbon tetrachloride	ND	0.0055	0.00033		mg/Kg-dry	1	9/19/2018
Chlorobenzene	ND	0.0055	0.00022		mg/Kg-dry	1	9/19/2018
Chloroethane	ND	0.011	0.00044		mg/Kg-dry	1	9/19/2018
Chloroform	ND	0.0055	0.00022		mg/Kg-dry	1	9/19/2018
Chloromethane	ND	0.011	0.00033		mg/Kg-dry	1	9/19/2018
Dibromochloromethane	ND	0.0055	0.00044		mg/Kg-dry	1	9/19/2018
1,1-Dichloroethane	ND	0.0055	0.00033		mg/Kg-dry	1	9/19/2018
1,2-Dichloroethane	ND	0.0055	0.00066		mg/Kg-dry	1	9/19/2018
1,1-Dichloroethene	ND	0.0055	0.00033		mg/Kg-dry	1	9/19/2018
cis-1,2-Dichloroethene	ND	0.0055	0.00033		mg/Kg-dry	1	9/19/2018
trans-1,2-Dichloroethene	ND	0.0055	0.00033		mg/Kg-dry	1	9/19/2018
1,2-Dichloropropane	ND	0.0055	0.00044		mg/Kg-dry	1	9/19/2018
cis-1,3-Dichloropropene	ND	0.0022	0.00022		mg/Kg-dry	1	9/19/2018
trans-1,3-Dichloropropene	ND	0.0022	0.00033		mg/Kg-dry	1	9/19/2018
Ethylbenzene	0.00030	0.0055	0.00011	J	mg/Kg-dry	1	9/19/2018
2-Hexanone	ND	0.022	0.00088		mg/Kg-dry	1	9/19/2018
4-Methyl-2-pentanone	ND	0.022	0.00033		mg/Kg-dry	1	9/19/2018
Methylene chloride	ND	0.011	0.00088		mg/Kg-dry	1	9/19/2018
Methyl tert-butyl ether	ND	0.0055	0.00022		mg/Kg-dry	1	9/19/2018
Styrene	ND	0.0055	0.00022		mg/Kg-dry	1	9/19/2018
1,1,2,2-Tetrachloroethane	ND	0.0055	0.00022		mg/Kg-dry	1	9/19/2018
Tetrachloroethene	0.0017	0.0055	0.00033	J	mg/Kg-dry	1	9/19/2018
Toluene	0.00076	0.0055	0.00022	J	mg/Kg-dry	1	9/19/2018
1,1,1-Trichloroethane	ND	0.0055	0.00022		mg/Kg-dry	1	9/19/2018
1,1,2-Trichloroethane	ND	0.0055	0.00055		mg/Kg-dry	1	9/19/2018
Trichloroethene	ND	0.0055	0.00022		mg/Kg-dry	1	9/19/2018
Vinyl chloride	ND	0.0055	0.00044		mg/Kg-dry	1	9/19/2018
Xylenes, Total	0.00049	0.017	0.00044	J	mg/Kg-dry	1	9/19/2018

**Percent Moisture****D2974**

Prep Date: 9/18/2018

Analyst: VA

Percent Moisture	7.5	0.2	0.1	*	wt%	1	9/19/2018
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**Qualifiers:**

ND - Not Detected at the Reporting Limit

RL/MDL - Reporting Limit / Method Detection Limit for the analysis

J - Analyte detected below reporting limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 29, 2018

**ANALYTICAL RESULTS**

Date Printed: September 29, 2018

**CLIENT:** Hydrodynamics Consultant, Inc.  
**Work Order:** 18090542 Revision 0  
**Project:** Westwood Cleaners, 8731 West North Ave., Wauwato  
**Lab ID:** 18090542-008

**Client Sample ID:** NSB3-B  
**Collection Date:** 9/16/2018 11:31:00 AM  
**Matrix:** SOIL

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		<b>Prep Date: 9/18/2018</b>		<b>Analyst: ERP</b>	
Acetone	0.0065	0.063	0.0019	J	mg/Kg-dry	1	9/19/2018
Benzene	0.0012	0.0042	0.00017	J	mg/Kg-dry	1	9/19/2018
Bromodichloromethane	ND	0.0042	0.00034		mg/Kg-dry	1	9/19/2018
Bromoform	ND	0.0042	0.00034		mg/Kg-dry	1	9/19/2018
Bromomethane	ND	0.0084	0.00042		mg/Kg-dry	1	9/19/2018
2-Butanone	ND	0.063	0.0013		mg/Kg-dry	1	9/19/2018
Carbon disulfide	0.00035	0.042	0.00017	J	mg/Kg-dry	1	9/19/2018
Carbon tetrachloride	ND	0.0042	0.00025		mg/Kg-dry	1	9/19/2018
Chlorobenzene	ND	0.0042	0.00017		mg/Kg-dry	1	9/19/2018
Chloroethane	ND	0.0084	0.00034		mg/Kg-dry	1	9/19/2018
Chloroform	ND	0.0042	0.00017		mg/Kg-dry	1	9/19/2018
Chloromethane	ND	0.0084	0.00025		mg/Kg-dry	1	9/19/2018
Dibromochloromethane	ND	0.0042	0.00034		mg/Kg-dry	1	9/19/2018
1,1-Dichloroethane	ND	0.0042	0.00025		mg/Kg-dry	1	9/19/2018
1,2-Dichloroethane	ND	0.0042	0.00051		mg/Kg-dry	1	9/19/2018
1,1-Dichloroethene	ND	0.0042	0.00025		mg/Kg-dry	1	9/19/2018
cis-1,2-Dichloroethene	ND	0.0042	0.00025		mg/Kg-dry	1	9/19/2018
trans-1,2-Dichloroethene	ND	0.0042	0.00025		mg/Kg-dry	1	9/19/2018
1,2-Dichloropropane	ND	0.0042	0.00034		mg/Kg-dry	1	9/19/2018
cis-1,3-Dichloropropene	ND	0.0017	0.00017		mg/Kg-dry	1	9/19/2018
trans-1,3-Dichloropropene	ND	0.0017	0.00025		mg/Kg-dry	1	9/19/2018
Ethylbenzene	0.00067	0.0042	0.000084	J	mg/Kg-dry	1	9/19/2018
2-Hexanone	ND	0.017	0.00067		mg/Kg-dry	1	9/19/2018
4-Methyl-2-pentanone	ND	0.017	0.00025		mg/Kg-dry	1	9/19/2018
Methylene chloride	ND	0.0084	0.00067		mg/Kg-dry	1	9/19/2018
Methyl tert-butyl ether	ND	0.0042	0.00017		mg/Kg-dry	1	9/19/2018
Styrene	ND	0.0042	0.00017		mg/Kg-dry	1	9/19/2018
1,1,2,2-Tetrachloroethane	ND	0.0042	0.00017		mg/Kg-dry	1	9/19/2018
Tetrachloroethene	0.00089	0.0042	0.00025	J	mg/Kg-dry	1	9/19/2018
Toluene	0.0020	0.0042	0.00017	J	mg/Kg-dry	1	9/19/2018
1,1,1-Trichloroethane	ND	0.0042	0.00017		mg/Kg-dry	1	9/19/2018
1,1,2-Trichloroethane	ND	0.0042	0.00042		mg/Kg-dry	1	9/19/2018
Trichloroethene	ND	0.0042	0.00017		mg/Kg-dry	1	9/19/2018
Vinyl chloride	ND	0.0042	0.00034		mg/Kg-dry	1	9/19/2018
Xylenes, Total	0.0013	0.013	0.00034	J	mg/Kg-dry	1	9/19/2018
<b>Percent Moisture</b>		<b>D2974</b>		<b>Prep Date: 9/18/2018</b>		<b>Analyst: VA</b>	
Percent Moisture	16.8	0.2	0.1	*	wt%	1	9/19/2018

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below reporting limit  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL/MDL - Reporting Limit / Method Detection Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 29, 2018

**ANALYTICAL RESULTS**

Date Printed: September 29, 2018

CLIENT: Hydrodynamics Consultant, Inc.

Work Order: 18090542 Revision 0

Project: Westwood Cleaners, 8731 West North Ave., Wauwato

Lab ID: 18090542-009

Client Sample ID: NSB3-C

Collection Date: 9/16/2018 11:47:00 AM

Matrix: SOIL

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: 9/18/2018		Analyst: AET	
Acetone	0.011	0.062	0.0019	J	mg/Kg-dry	1	9/19/2018
Benzene	0.0024	0.0041	0.00016	J	mg/Kg-dry	1	9/19/2018
Bromodichloromethane	ND	0.0041	0.00033		mg/Kg-dry	1	9/19/2018
Bromoform	ND	0.0041	0.00033		mg/Kg-dry	1	9/19/2018
Bromomethane	ND	0.0082	0.00041		mg/Kg-dry	1	9/19/2018
2-Butanone	0.0032	0.062	0.0012	J	mg/Kg-dry	1	9/19/2018
Carbon disulfide	0.00035	0.041	0.00016	J	mg/Kg-dry	1	9/19/2018
Carbon tetrachloride	ND	0.0041	0.00025		mg/Kg-dry	1	9/19/2018
Chlorobenzene	ND	0.0041	0.00016		mg/Kg-dry	1	9/19/2018
Chloroethane	ND	0.0082	0.00033		mg/Kg-dry	1	9/19/2018
Chloroform	ND	0.0041	0.00016		mg/Kg-dry	1	9/19/2018
Chloromethane	ND	0.0082	0.00025		mg/Kg-dry	1	9/19/2018
Dibromochloromethane	ND	0.0041	0.00033		mg/Kg-dry	1	9/19/2018
1,1-Dichloroethane	ND	0.0041	0.00025		mg/Kg-dry	1	9/19/2018
1,2-Dichloroethane	ND	0.0041	0.00049		mg/Kg-dry	1	9/19/2018
1,1-Dichloroethene	ND	0.0041	0.00025		mg/Kg-dry	1	9/19/2018
cis-1,2-Dichloroethene	ND	0.0041	0.00025		mg/Kg-dry	1	9/19/2018
trans-1,2-Dichloroethene	ND	0.0041	0.00025		mg/Kg-dry	1	9/19/2018
1,2-Dichloropropane	ND	0.0041	0.00033		mg/Kg-dry	1	9/19/2018
cis-1,3-Dichloropropene	ND	0.0016	0.00016		mg/Kg-dry	1	9/19/2018
trans-1,3-Dichloropropene	ND	0.0016	0.00025		mg/Kg-dry	1	9/19/2018
Ethylbenzene	0.00070	0.0041	0.000082	J	mg/Kg-dry	1	9/19/2018
2-Hexanone	ND	0.016	0.00066		mg/Kg-dry	1	9/19/2018
4-Methyl-2-pentanone	ND	0.016	0.00025		mg/Kg-dry	1	9/19/2018
Methylene chloride	ND	0.0082	0.00066		mg/Kg-dry	1	9/19/2018
Methyl tert-butyl ether	ND	0.0041	0.00016		mg/Kg-dry	1	9/19/2018
Styrene	ND	0.0041	0.00016		mg/Kg-dry	1	9/19/2018
1,1,2,2-Tetrachloroethane	ND	0.0041	0.00016		mg/Kg-dry	1	9/19/2018
Tetrachloroethene	0.00097	0.0041	0.00025	J	mg/Kg-dry	1	9/19/2018
Toluene	0.0032	0.0041	0.00016	J	mg/Kg-dry	1	9/19/2018
1,1,1-Trichloroethane	ND	0.0041	0.00016		mg/Kg-dry	1	9/19/2018
1,1,2-Trichloroethane	ND	0.0041	0.00041		mg/Kg-dry	1	9/19/2018
Trichloroethene	ND	0.0041	0.00016		mg/Kg-dry	1	9/19/2018
Vinyl chloride	ND	0.0041	0.00033		mg/Kg-dry	1	9/19/2018
Xylenes, Total	0.0013	0.012	0.00033	J	mg/Kg-dry	1	9/19/2018
<b>Percent Moisture</b>		<b>D2974</b>		Prep Date: 9/18/2018		Analyst: VA	
Percent Moisture	14.2	0.2	0.1	*	wt%	1	9/19/2018

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below reporting limit

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL/MDL - Reporting Limit / Method Detection Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 29, 2018

**ANALYTICAL RESULTS**

Date Printed: September 29, 2018

**CLIENT:** Hydrodynamics Consultant, Inc.  
**Work Order:** 18090542 Revision 0  
**Project:** Westwood Cleaners, 8731 West North Ave., Wauwato  
**Lab ID:** 18090542-010

**Client Sample ID:** NSB4-A  
**Collection Date:** 9/16/2018 12:05:00 PM  
**Matrix:** SOIL

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		<b>Prep Date: 9/18/2018</b>		<b>Analyst: AET</b>	
Acetone	0.093	0.074	0.0023		mg/Kg-dry	1	9/19/2018
Benzene	ND	0.0049	0.0002		mg/Kg-dry	1	9/19/2018
Bromodichloromethane	ND	0.0049	0.00039		mg/Kg-dry	1	9/19/2018
Bromoform	ND	0.0049	0.00039		mg/Kg-dry	1	9/19/2018
Bromomethane	ND	0.0098	0.00049		mg/Kg-dry	1	9/19/2018
2-Butanone	0.0069	0.074	0.0015	J	mg/Kg-dry	1	9/19/2018
Carbon disulfide	0.00035	0.049	0.0002	J	mg/Kg-dry	1	9/19/2018
Carbon tetrachloride	ND	0.0049	0.00029		mg/Kg-dry	1	9/19/2018
Chlorobenzene	ND	0.0049	0.0002		mg/Kg-dry	1	9/19/2018
Chloroethane	ND	0.0098	0.00039		mg/Kg-dry	1	9/19/2018
Chloroform	ND	0.0049	0.0002		mg/Kg-dry	1	9/19/2018
Chloromethane	ND	0.0098	0.00029		mg/Kg-dry	1	9/19/2018
Dibromochloromethane	ND	0.0049	0.00039		mg/Kg-dry	1	9/19/2018
1,1-Dichloroethane	ND	0.0049	0.00029		mg/Kg-dry	1	9/19/2018
1,2-Dichloroethane	ND	0.0049	0.00059		mg/Kg-dry	1	9/19/2018
1,1-Dichloroethene	ND	0.0049	0.00029		mg/Kg-dry	1	9/19/2018
cis-1,2-Dichloroethene	ND	0.0049	0.00029		mg/Kg-dry	1	9/19/2018
trans-1,2-Dichloroethene	ND	0.0049	0.00029		mg/Kg-dry	1	9/19/2018
1,2-Dichloropropane	ND	0.0049	0.00039		mg/Kg-dry	1	9/19/2018
cis-1,3-Dichloropropene	ND	0.0020	0.0002		mg/Kg-dry	1	9/19/2018
trans-1,3-Dichloropropene	ND	0.0020	0.00029		mg/Kg-dry	1	9/19/2018
Ethylbenzene	0.00015	0.0049	0.000098	J	mg/Kg-dry	1	9/19/2018
2-Hexanone	ND	0.020	0.00079		mg/Kg-dry	1	9/19/2018
4-Methyl-2-pentanone	ND	0.020	0.00029		mg/Kg-dry	1	9/19/2018
Methylene chloride	ND	0.0098	0.00079		mg/Kg-dry	1	9/19/2018
Methyl tert-butyl ether	ND	0.0049	0.0002		mg/Kg-dry	1	9/19/2018
Styrene	ND	0.0049	0.0002		mg/Kg-dry	1	9/19/2018
1,1,2,2-Tetrachloroethane	ND	0.0049	0.0002		mg/Kg-dry	1	9/19/2018
Tetrachloroethene	0.0026	0.0049	0.00029	J	mg/Kg-dry	1	9/19/2018
Toluene	0.00033	0.0049	0.0002	J	mg/Kg-dry	1	9/19/2018
1,1,1-Trichloroethane	ND	0.0049	0.0002		mg/Kg-dry	1	9/19/2018
1,1,2-Trichloroethane	ND	0.0049	0.00049		mg/Kg-dry	1	9/19/2018
Trichloroethene	ND	0.0049	0.0002		mg/Kg-dry	1	9/19/2018
Vinyl chloride	ND	0.0049	0.00039		mg/Kg-dry	1	9/19/2018
Xylenes, Total	ND	0.015	0.00039		mg/Kg-dry	1	9/19/2018
<b>Organic Matter / Carbon</b>		<b>D2974</b>		<b>Prep Date: 9/19/2018</b>		<b>Analyst: VA</b>	
Organic Matter	2.99	0.01		*	wt%	1	9/20/2018

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL/MDL - Reporting Limit / Method Detection Limit for the analysis
	J - Analyte detected below reporting limit	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Date Reported: September 29, 2018

**ANALYTICAL RESULTS**

Date Printed: September 29, 2018

**CLIENT:** Hydrodynamics Consultant, Inc.  
**Work Order:** 18090542 Revision 0  
**Project:** Westwood Cleaners, 8731 West North Ave., Wauwato  
**Lab ID:** 18090542-010

**Client Sample ID:** NSB4-A  
**Collection Date:** 9/16/2018 12:05:00 PM  
**Matrix:** SOIL

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
<b>Percent Moisture</b>	<b>D2974</b>						Prep Date: 9/18/2018 Analyst: VA
Percent Moisture	18.1	0.2	0.1	*	wt%	1	9/19/2018

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below reporting limit

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL/MDL - Reporting Limit / Method Detection Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded



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Date Reported: September 29, 2018

**ANALYTICAL RESULTS**

Date Printed: September 29, 2018

**CLIENT:** Hydrodynamics Consultant, Inc.  
**Work Order:** 18090542 Revision 0  
**Project:** Westwood Cleaners, 8731 West North Ave., Wauwato  
**Lab ID:** 18090542-011

**Client Sample ID:** NSB4-B  
**Collection Date:** 9/16/2018 12:21:00 PM  
**Matrix:** SOIL

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		<b>Prep Date: 9/18/2018</b>		<b>Analyst: ERP</b>	
Acetone	0.016	0.069	0.0021	J	mg/Kg-dry	1	9/19/2018
Benzene	0.00050	0.0046	0.00018	J	mg/Kg-dry	1	9/19/2018
Bromodichloromethane	ND	0.0046	0.00037		mg/Kg-dry	1	9/19/2018
Bromoform	ND	0.0046	0.00037		mg/Kg-dry	1	9/19/2018
Bromomethane	ND	0.0091	0.00046		mg/Kg-dry	1	9/19/2018
2-Butanone	ND	0.069	0.0014		mg/Kg-dry	1	9/19/2018
Carbon disulfide	0.00032	0.046	0.00018	J	mg/Kg-dry	1	9/19/2018
Carbon tetrachloride	ND	0.0046	0.00027		mg/Kg-dry	1	9/19/2018
Chlorobenzene	ND	0.0046	0.00018		mg/Kg-dry	1	9/19/2018
Chloroethane	ND	0.0091	0.00037		mg/Kg-dry	1	9/19/2018
Chloroform	ND	0.0046	0.00018		mg/Kg-dry	1	9/19/2018
Chloromethane	ND	0.0091	0.00027		mg/Kg-dry	1	9/19/2018
Dibromochloromethane	ND	0.0046	0.00037		mg/Kg-dry	1	9/19/2018
1,1-Dichloroethane	ND	0.0046	0.00027		mg/Kg-dry	1	9/19/2018
1,2-Dichloroethane	ND	0.0046	0.00055		mg/Kg-dry	1	9/19/2018
1,1-Dichloroethene	ND	0.0046	0.00027		mg/Kg-dry	1	9/19/2018
cis-1,2-Dichloroethene	ND	0.0046	0.00027		mg/Kg-dry	1	9/19/2018
trans-1,2-Dichloroethene	ND	0.0046	0.00027		mg/Kg-dry	1	9/19/2018
1,2-Dichloropropane	ND	0.0046	0.00037		mg/Kg-dry	1	9/19/2018
cis-1,3-Dichloropropene	ND	0.0018	0.00018		mg/Kg-dry	1	9/19/2018
trans-1,3-Dichloropropene	ND	0.0018	0.00027		mg/Kg-dry	1	9/19/2018
Ethylbenzene	0.00014	0.0046	0.000091	J	mg/Kg-dry	1	9/19/2018
2-Hexanone	ND	0.018	0.00073		mg/Kg-dry	1	9/19/2018
4-Methyl-2-pentanone	ND	0.018	0.00027		mg/Kg-dry	1	9/19/2018
Methylene chloride	0.0038	0.0091	0.00073	J	mg/Kg-dry	1	9/19/2018
Methyl tert-butyl ether	ND	0.0046	0.00018		mg/Kg-dry	1	9/19/2018
Styrene	ND	0.0046	0.00018		mg/Kg-dry	1	9/19/2018
1,1,2,2-Tetrachloroethane	ND	0.0046	0.00018		mg/Kg-dry	1	9/19/2018
Tetrachloroethene	ND	0.0046	0.00027		mg/Kg-dry	1	9/19/2018
Toluene	0.00035	0.0046	0.00018	J	mg/Kg-dry	1	9/19/2018
1,1,1-Trichloroethane	ND	0.0046	0.00018		mg/Kg-dry	1	9/19/2018
1,1,2-Trichloroethane	ND	0.0046	0.00046		mg/Kg-dry	1	9/19/2018
Trichloroethene	ND	0.0046	0.00018		mg/Kg-dry	1	9/19/2018
Vinyl chloride	ND	0.0046	0.00037		mg/Kg-dry	1	9/19/2018
Xylenes, Total	ND	0.014	0.00037		mg/Kg-dry	1	9/19/2018
<b>Organic Matter / Carbon</b>		<b>D2974</b>		<b>Prep Date: 9/19/2018</b>		<b>Analyst: VA</b>	
Organic Matter	4.62	0.01		*	wt%	1	9/20/2018

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below reporting limit  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL/MDL - Reporting Limit / Method Detection Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 29, 2018

**ANALYTICAL RESULTS**

Date Printed: September 29, 2018

**CLIENT:** Hydrodynamics Consultant, Inc.  
**Work Order:** 18090542 Revision 0  
**Project:** Westwood Cleaners, 8731 West North Ave., Wauwato  
**Lab ID:** 18090542-011

**Client Sample ID:** NSB4-B  
**Collection Date:** 9/16/2018 12:21:00 PM  
**Matrix:** SOIL

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
<b>Percent Moisture</b>	<b>D2974</b>						Prep Date: 9/18/2018 Analyst: VA
Percent Moisture	16.3	0.2	0.1	*	wt%	1	9/19/2018

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below reporting limit

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL/MDL - Reporting Limit / Method Detection Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Date Reported: September 29, 2018

**ANALYTICAL RESULTS**

Date Printed: September 29, 2018

**CLIENT:** Hydrodynamics Consultant, Inc.  
**Work Order:** 18090542 Revision 0  
**Project:** Westwood Cleaners, 8731 West North Ave., Wauwato  
**Lab ID:** 18090542-012

**Client Sample ID:** NSB4-C  
**Collection Date:** 9/16/2018 12:38:00 PM  
**Matrix:** SOIL

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		<b>Prep Date: 9/18/2018</b>		<b>Analyst: ERP</b>	
Acetone	0.0077	0.060	0.0018	J	mg/Kg-dry	1	9/19/2018
Benzene	0.00031	0.0040	0.00016	J	mg/Kg-dry	1	9/19/2018
Bromodichloromethane	ND	0.0040	0.00032		mg/Kg-dry	1	9/19/2018
Bromoform	ND	0.0040	0.00032		mg/Kg-dry	1	9/19/2018
Bromomethane	ND	0.0080	0.0004		mg/Kg-dry	1	9/19/2018
2-Butanone	ND	0.060	0.0012		mg/Kg-dry	1	9/19/2018
Carbon disulfide	0.00021	0.040	0.00016	J	mg/Kg-dry	1	9/19/2018
Carbon tetrachloride	ND	0.0040	0.00024		mg/Kg-dry	1	9/19/2018
Chlorobenzene	ND	0.0040	0.00016		mg/Kg-dry	1	9/19/2018
Chloroethane	ND	0.0080	0.00032		mg/Kg-dry	1	9/19/2018
Chloroform	ND	0.0040	0.00016		mg/Kg-dry	1	9/19/2018
Chloromethane	ND	0.0080	0.00024		mg/Kg-dry	1	9/19/2018
Dibromochloromethane	ND	0.0040	0.00032		mg/Kg-dry	1	9/19/2018
1,1-Dichloroethane	ND	0.0040	0.00024		mg/Kg-dry	1	9/19/2018
1,2-Dichloroethane	ND	0.0040	0.00048		mg/Kg-dry	1	9/19/2018
1,1-Dichloroethene	ND	0.0040	0.00024		mg/Kg-dry	1	9/19/2018
cis-1,2-Dichloroethene	ND	0.0040	0.00024		mg/Kg-dry	1	9/19/2018
trans-1,2-Dichloroethene	ND	0.0040	0.00024		mg/Kg-dry	1	9/19/2018
1,2-Dichloropropane	ND	0.0040	0.00032		mg/Kg-dry	1	9/19/2018
cis-1,3-Dichloropropene	ND	0.0016	0.00016		mg/Kg-dry	1	9/19/2018
trans-1,3-Dichloropropene	ND	0.0016	0.00024		mg/Kg-dry	1	9/19/2018
Ethylbenzene	0.00019	0.0040	0.00008	J	mg/Kg-dry	1	9/19/2018
2-Hexanone	ND	0.016	0.00064		mg/Kg-dry	1	9/19/2018
4-Methyl-2-pentanone	ND	0.016	0.00024		mg/Kg-dry	1	9/19/2018
Methylene chloride	ND	0.0080	0.00064		mg/Kg-dry	1	9/19/2018
Methyl tert-butyl ether	ND	0.0040	0.00016		mg/Kg-dry	1	9/19/2018
Styrene	ND	0.0040	0.00016		mg/Kg-dry	1	9/19/2018
1,1,2,2-Tetrachloroethane	ND	0.0040	0.00016		mg/Kg-dry	1	9/19/2018
Tetrachloroethene	ND	0.0040	0.00024		mg/Kg-dry	1	9/19/2018
Toluene	0.00043	0.0040	0.00016	J	mg/Kg-dry	1	9/19/2018
1,1,1-Trichloroethane	ND	0.0040	0.00016		mg/Kg-dry	1	9/19/2018
1,1,2-Trichloroethane	ND	0.0040	0.0004		mg/Kg-dry	1	9/19/2018
Trichloroethene	ND	0.0040	0.00016		mg/Kg-dry	1	9/19/2018
Vinyl chloride	ND	0.0040	0.00032		mg/Kg-dry	1	9/19/2018
Xylenes, Total	ND	0.012	0.00032		mg/Kg-dry	1	9/19/2018
<b>Percent Moisture</b>		<b>D2974</b>		<b>Prep Date: 9/18/2018</b>		<b>Analyst: VA</b>	
Percent Moisture	8.7	0.2	0.1	*	wt%	1	9/19/2018

**Qualifiers:** ND - Not Detected at the Reporting Limit  
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 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL/MDL - Reporting Limit / Method Detection Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
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Date Reported: September 29, 2018

Date Printed: September 29, 2018

**ANALYTICAL RESULTS**

CLIENT: Hydrodynamics Consultant, Inc.

Work Order: 18090542 Revision 0

Project: Westwood Cleaners, 8731 West North Ave., Wauwato

Lab ID: 18090542-013

Client Sample ID: NSB5-A

Collection Date: 9/16/2018 12:55:00 PM

Matrix: SOIL

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS****SW5035/8260B**

Prep Date: 9/18/2018

Analyst: MJK

Acetone	0.017	0.068	0.0021	J	mg/Kg-dry	1	9/19/2018
Benzene	0.0039	0.0045	0.00018	J	mg/Kg-dry	1	9/19/2018
Bromodichloromethane	ND	0.0045	0.00036		mg/Kg-dry	1	9/19/2018
Bromoform	ND	0.0045	0.00036		mg/Kg-dry	1	9/19/2018
Bromomethane	ND	0.0091	0.00045		mg/Kg-dry	1	9/19/2018
2-Butanone	ND	0.068	0.0014		mg/Kg-dry	1	9/19/2018
Carbon disulfide	0.00028	0.045	0.00018	J	mg/Kg-dry	1	9/19/2018
Carbon tetrachloride	ND	0.0045	0.00027		mg/Kg-dry	1	9/19/2018
Chlorobenzene	ND	0.0045	0.00018		mg/Kg-dry	1	9/19/2018
Chloroethane	ND	0.0091	0.00036		mg/Kg-dry	1	9/19/2018
Chloroform	ND	0.0045	0.00018		mg/Kg-dry	1	9/19/2018
Chloromethane	ND	0.0091	0.00027		mg/Kg-dry	1	9/19/2018
Dibromochloromethane	ND	0.0045	0.00036		mg/Kg-dry	1	9/19/2018
1,1-Dichloroethane	ND	0.0045	0.00027		mg/Kg-dry	1	9/19/2018
1,2-Dichloroethane	ND	0.0045	0.00055		mg/Kg-dry	1	9/19/2018
1,1-Dichloroethene	ND	0.0045	0.00027		mg/Kg-dry	1	9/19/2018
cis-1,2-Dichloroethene	ND	0.0045	0.00027		mg/Kg-dry	1	9/19/2018
trans-1,2-Dichloroethene	ND	0.0045	0.00027		mg/Kg-dry	1	9/19/2018
1,2-Dichloropropane	ND	0.0045	0.00036		mg/Kg-dry	1	9/19/2018
cis-1,3-Dichloropropene	ND	0.0018	0.00018		mg/Kg-dry	1	9/19/2018
trans-1,3-Dichloropropene	ND	0.0018	0.00027		mg/Kg-dry	1	9/19/2018
Ethylbenzene	0.0018	0.0045	0.000091	J	mg/Kg-dry	1	9/19/2018
2-Hexanone	ND	0.018	0.00073		mg/Kg-dry	1	9/19/2018
4-Methyl-2-pentanone	ND	0.018	0.00027		mg/Kg-dry	1	9/19/2018
Methylene chloride	0.00088	0.0091	0.00073	J	mg/Kg-dry	1	9/19/2018
Methyl tert-butyl ether	ND	0.0045	0.00018		mg/Kg-dry	1	9/19/2018
Styrene	ND	0.0045	0.00018		mg/Kg-dry	1	9/19/2018
1,1,2,2-Tetrachloroethane	ND	0.0045	0.00018		mg/Kg-dry	1	9/19/2018
Tetrachloroethene	0.21	0.0045	0.00027		mg/Kg-dry	1	9/19/2018
Toluene	0.0067	0.0045	0.00018		mg/Kg-dry	1	9/19/2018
1,1,1-Trichloroethane	ND	0.0045	0.00018		mg/Kg-dry	1	9/19/2018
1,1,2-Trichloroethane	ND	0.0045	0.00045		mg/Kg-dry	1	9/19/2018
Trichloroethene	ND	0.0045	0.00018		mg/Kg-dry	1	9/19/2018
Vinyl chloride	ND	0.0045	0.00036		mg/Kg-dry	1	9/19/2018
Xylenes, Total	0.0042	0.014	0.00036	J	mg/Kg-dry	1	9/19/2018

**Percent Moisture****D2974**

Prep Date: 9/18/2018

Analyst: VA

Percent Moisture	15.5	0.2	0.1	*	wt%	1	9/19/2018
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**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below reporting limit

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL/MDL - Reporting Limit / Method Detection Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 29, 2018

**ANALYTICAL RESULTS**

Date Printed: September 29, 2018

**CLIENT:** Hydrodynamics Consultant, Inc.  
**Work Order:** 18090542 Revision 0  
**Project:** Westwood Cleaners, 8731 West North Ave., Wauwato  
**Lab ID:** 18090542-014

**Client Sample ID:** NSB5-B  
**Collection Date:** 9/16/2018 1:10:00 PM  
**Matrix:** SOIL

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		<b>Prep Date: 9/18/2018</b>		<b>Analyst: ERP</b>	
Acetone	ND	4.0	0.12		mg/Kg-dry	50	9/20/2018
Benzene	ND	0.27	0.011		mg/Kg-dry	50	9/20/2018
Bromodichloromethane	ND	0.27	0.022		mg/Kg-dry	50	9/20/2018
Bromoform	ND	0.27	0.022		mg/Kg-dry	50	9/20/2018
Bromomethane	ND	0.54	0.027		mg/Kg-dry	50	9/20/2018
2-Butanone	ND	4.0	0.081		mg/Kg-dry	50	9/20/2018
Carbon disulfide	ND	2.7	0.011		mg/Kg-dry	50	9/20/2018
Carbon tetrachloride	ND	0.27	0.016		mg/Kg-dry	50	9/20/2018
Chlorobenzene	ND	0.27	0.011		mg/Kg-dry	50	9/20/2018
Chloroethane	ND	0.54	0.022		mg/Kg-dry	50	9/20/2018
Chloroform	ND	0.27	0.011		mg/Kg-dry	50	9/20/2018
Chloromethane	ND	0.54	0.016		mg/Kg-dry	50	9/20/2018
Dibromochloromethane	ND	0.27	0.022		mg/Kg-dry	50	9/20/2018
1,1-Dichloroethane	ND	0.27	0.016		mg/Kg-dry	50	9/20/2018
1,2-Dichloroethane	ND	0.27	0.032		mg/Kg-dry	50	9/20/2018
1,1-Dichloroethene	ND	0.27	0.016		mg/Kg-dry	50	9/20/2018
cis-1,2-Dichloroethene	ND	0.27	0.016		mg/Kg-dry	50	9/20/2018
trans-1,2-Dichloroethene	ND	0.27	0.016		mg/Kg-dry	50	9/20/2018
1,2-Dichloropropane	ND	0.27	0.022		mg/Kg-dry	50	9/20/2018
cis-1,3-Dichloropropene	ND	0.11	0.011		mg/Kg-dry	50	9/20/2018
trans-1,3-Dichloropropene	ND	0.11	0.016		mg/Kg-dry	50	9/20/2018
Ethylbenzene	ND	0.27	0.0054		mg/Kg-dry	50	9/20/2018
2-Hexanone	ND	1.1	0.043		mg/Kg-dry	50	9/20/2018
4-Methyl-2-pentanone	ND	1.1	0.016		mg/Kg-dry	50	9/20/2018
Methylene chloride	ND	0.54	0.043		mg/Kg-dry	50	9/20/2018
Methyl tert-butyl ether	ND	0.27	0.011		mg/Kg-dry	50	9/20/2018
Styrene	ND	0.27	0.011		mg/Kg-dry	50	9/20/2018
1,1,2,2-Tetrachloroethane	ND	0.27	0.011		mg/Kg-dry	50	9/20/2018
Tetrachloroethene	2.1	0.27	0.016		mg/Kg-dry	50	9/20/2018
Toluene	ND	0.27	0.011		mg/Kg-dry	50	9/20/2018
1,1,1-Trichloroethane	ND	0.27	0.011		mg/Kg-dry	50	9/20/2018
1,1,2-Trichloroethane	ND	0.27	0.027		mg/Kg-dry	50	9/20/2018
Trichloroethene	0.053	0.27	0.011	J	mg/Kg-dry	50	9/20/2018
Vinyl chloride	ND	0.27	0.022		mg/Kg-dry	50	9/20/2018
Xylenes, Total	ND	0.81	0.022		mg/Kg-dry	50	9/20/2018
<b>Percent Moisture</b>		<b>D2974</b>		<b>Prep Date: 9/18/2018</b>		<b>Analyst: VA</b>	
Percent Moisture	21.5	0.2	0.1	*	wt%	1	9/19/2018

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below reporting limit  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL/MDL - Reporting Limit / Method Detection Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 29, 2018

**ANALYTICAL RESULTS**

Date Printed: September 29, 2018

**CLIENT:** Hydrodynamics Consultant, Inc.  
**Work Order:** 18090542 Revision 0  
**Project:** Westwood Cleaners, 8731 West North Ave., Wauwato  
**Lab ID:** 18090542-015

**Client Sample ID:** NSB5-C  
**Collection Date:** 9/16/2018 1:26:00 PM  
**Matrix:** SOIL

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		<b>Prep Date: 9/18/2018</b>		<b>Analyst: MJK</b>	
Acetone	0.014	0.063	0.0019	J	mg/Kg-dry	1	9/19/2018
Benzene	ND	0.0042	0.00017		mg/Kg-dry	1	9/19/2018
Bromodichloromethane	ND	0.0042	0.00034		mg/Kg-dry	1	9/19/2018
Bromoform	ND	0.0042	0.00034		mg/Kg-dry	1	9/19/2018
Bromomethane	ND	0.0084	0.00042		mg/Kg-dry	1	9/19/2018
2-Butanone	ND	0.063	0.0013		mg/Kg-dry	1	9/19/2018
Carbon disulfide	ND	0.042	0.00017		mg/Kg-dry	1	9/19/2018
Carbon tetrachloride	ND	0.0042	0.00025		mg/Kg-dry	1	9/19/2018
Chlorobenzene	ND	0.0042	0.00017		mg/Kg-dry	1	9/19/2018
Chloroethane	ND	0.0084	0.00034		mg/Kg-dry	1	9/19/2018
Chloroform	ND	0.0042	0.00017		mg/Kg-dry	1	9/19/2018
Chloromethane	ND	0.0084	0.00025		mg/Kg-dry	1	9/19/2018
Dibromochloromethane	ND	0.0042	0.00034		mg/Kg-dry	1	9/19/2018
1,1-Dichloroethane	ND	0.0042	0.00025		mg/Kg-dry	1	9/19/2018
1,2-Dichloroethane	ND	0.0042	0.00051		mg/Kg-dry	1	9/19/2018
1,1-Dichloroethene	ND	0.0042	0.00025		mg/Kg-dry	1	9/19/2018
cis-1,2-Dichloroethene	ND	0.0042	0.00025		mg/Kg-dry	1	9/19/2018
trans-1,2-Dichloroethene	ND	0.0042	0.00025		mg/Kg-dry	1	9/19/2018
1,2-Dichloropropane	ND	0.0042	0.00034		mg/Kg-dry	1	9/19/2018
cis-1,3-Dichloropropene	ND	0.0017	0.00017		mg/Kg-dry	1	9/19/2018
trans-1,3-Dichloropropene	ND	0.0017	0.00025		mg/Kg-dry	1	9/19/2018
Ethylbenzene	ND	0.0042	0.000084		mg/Kg-dry	1	9/19/2018
2-Hexanone	ND	0.017	0.00067		mg/Kg-dry	1	9/19/2018
4-Methyl-2-pentanone	ND	0.017	0.00025		mg/Kg-dry	1	9/19/2018
Methylene chloride	ND	0.0084	0.00067		mg/Kg-dry	1	9/19/2018
Methyl tert-butyl ether	ND	0.0042	0.00017		mg/Kg-dry	1	9/19/2018
Styrene	ND	0.0042	0.00017		mg/Kg-dry	1	9/19/2018
1,1,2,2-Tetrachloroethane	ND	0.0042	0.00017		mg/Kg-dry	1	9/19/2018
Tetrachloroethene	ND	0.0042	0.00025		mg/Kg-dry	1	9/19/2018
Toluene	ND	0.0042	0.00017		mg/Kg-dry	1	9/19/2018
1,1,1-Trichloroethane	ND	0.0042	0.00017		mg/Kg-dry	1	9/19/2018
1,1,2-Trichloroethane	ND	0.0042	0.00042		mg/Kg-dry	1	9/19/2018
Trichloroethene	ND	0.0042	0.00017		mg/Kg-dry	1	9/19/2018
Vinyl chloride	ND	0.0042	0.00034		mg/Kg-dry	1	9/19/2018
Xylenes, Total	ND	0.013	0.00034		mg/Kg-dry	1	9/19/2018
<b>Percent Moisture</b>		<b>D2974</b>		<b>Prep Date: 9/18/2018</b>		<b>Analyst: VA</b>	
Percent Moisture	16.9	0.2	0.1	*	wt%	1	9/19/2018

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below reporting limit

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL/MDL - Reporting Limit / Method Detection Limit for the analysis

S - Spike Recovery outside accepted recovery limits

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E - Value above quantitation range

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 29, 2018

**ANALYTICAL RESULTS**

Date Printed: September 29, 2018

**CLIENT:** Hydrodynamics Consultant, Inc.  
**Work Order:** 18090542 Revision 0  
**Project:** Westwood Cleaners, 8731 West North Ave., Wauwato  
**Lab ID:** 18090542-016

**Client Sample ID:** NSB6-A  
**Collection Date:** 9/16/2018 1:45:00 PM  
**Matrix:** SOIL

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		<b>Prep Date: 9/18/2018</b>		<b>Analyst: ERP</b>	
Acetone	ND	4.3	0.13		mg/Kg-dry	50	9/20/2018
Benzene	ND	0.29	0.011		mg/Kg-dry	50	9/20/2018
Bromodichloromethane	ND	0.29	0.023		mg/Kg-dry	50	9/20/2018
Bromoform	ND	0.29	0.023		mg/Kg-dry	50	9/20/2018
Bromomethane	ND	0.57	0.029		mg/Kg-dry	50	9/20/2018
2-Butanone	ND	4.3	0.086		mg/Kg-dry	50	9/20/2018
Carbon disulfide	0.011	2.9	0.011	J	mg/Kg-dry	50	9/20/2018
Carbon tetrachloride	ND	0.29	0.017		mg/Kg-dry	50	9/20/2018
Chlorobenzene	ND	0.29	0.011		mg/Kg-dry	50	9/20/2018
Chloroethane	ND	0.57	0.023		mg/Kg-dry	50	9/20/2018
Chloroform	ND	0.29	0.011		mg/Kg-dry	50	9/20/2018
Chloromethane	ND	0.57	0.017		mg/Kg-dry	50	9/20/2018
Dibromochloromethane	ND	0.29	0.023		mg/Kg-dry	50	9/20/2018
1,1-Dichloroethane	ND	0.29	0.017		mg/Kg-dry	50	9/20/2018
1,2-Dichloroethane	ND	0.29	0.034		mg/Kg-dry	50	9/20/2018
1,1-Dichloroethene	ND	0.29	0.017		mg/Kg-dry	50	9/20/2018
cis-1,2-Dichloroethene	ND	0.29	0.017		mg/Kg-dry	50	9/20/2018
trans-1,2-Dichloroethene	ND	0.29	0.017		mg/Kg-dry	50	9/20/2018
1,2-Dichloropropane	ND	0.29	0.023		mg/Kg-dry	50	9/20/2018
cis-1,3-Dichloropropene	ND	0.11	0.011		mg/Kg-dry	50	9/20/2018
trans-1,3-Dichloropropene	ND	0.11	0.017		mg/Kg-dry	50	9/20/2018
Ethylbenzene	ND	0.29	0.0057		mg/Kg-dry	50	9/20/2018
2-Hexanone	ND	1.1	0.046		mg/Kg-dry	50	9/20/2018
4-Methyl-2-pentanone	ND	1.1	0.017		mg/Kg-dry	50	9/20/2018
Methylene chloride	ND	0.57	0.046		mg/Kg-dry	50	9/20/2018
Methyl tert-butyl ether	ND	0.29	0.011		mg/Kg-dry	50	9/20/2018
Styrene	ND	0.29	0.011		mg/Kg-dry	50	9/20/2018
1,1,2,2-Tetrachloroethane	ND	0.29	0.011		mg/Kg-dry	50	9/20/2018
Tetrachloroethene	6.3	0.29	0.017		mg/Kg-dry	50	9/20/2018
Toluene	ND	0.29	0.011		mg/Kg-dry	50	9/20/2018
1,1,1-Trichloroethane	ND	0.29	0.011		mg/Kg-dry	50	9/20/2018
1,1,2-Trichloroethane	ND	0.29	0.029		mg/Kg-dry	50	9/20/2018
Trichloroethene	0.75	0.29	0.011		mg/Kg-dry	50	9/20/2018
Vinyl chloride	ND	0.29	0.023		mg/Kg-dry	50	9/20/2018
Xylenes, Total	ND	0.86	0.023		mg/Kg-dry	50	9/20/2018
<b>Percent Moisture</b>		<b>D2974</b>		<b>Prep Date: 9/18/2018</b>		<b>Analyst: VA</b>	
Percent Moisture	19.1	0.2	0.1	*	wt%	1	9/19/2018

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below reporting limit  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL/MDL - Reporting Limit / Method Detection Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Date Reported: September 29, 2018

**ANALYTICAL RESULTS**

Date Printed: September 29, 2018

CLIENT: Hydrodynamics Consultant, Inc.

Client Sample ID: NSB6-B

Work Order: 18090542 Revision 0

Collection Date: 9/16/2018 2:01:00 PM

Project: Westwood Cleaners, 8731 West North Ave., Wauwato

Matrix: SOIL

Lab ID: 18090542-017

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS****SW5035/8260B**

Prep Date: 9/18/2018

Analyst: MJK

Acetone	0.016	0.071	0.0022	J	mg/Kg-dry	1	9/19/2018
Benzene	0.00067	0.0047	0.00019	J	mg/Kg-dry	1	9/19/2018
Bromodichloromethane	ND	0.0047	0.00038		mg/Kg-dry	1	9/19/2018
Bromoform	ND	0.0047	0.00038		mg/Kg-dry	1	9/19/2018
Bromomethane	ND	0.0094	0.00047		mg/Kg-dry	1	9/19/2018
2-Butanone	ND	0.071	0.0014		mg/Kg-dry	1	9/19/2018
Carbon disulfide	ND	0.047	0.00019		mg/Kg-dry	1	9/19/2018
Carbon tetrachloride	ND	0.0047	0.00028		mg/Kg-dry	1	9/19/2018
Chlorobenzene	ND	0.0047	0.00019		mg/Kg-dry	1	9/19/2018
Chloroethane	ND	0.0094	0.00038		mg/Kg-dry	1	9/19/2018
Chloroform	ND	0.0047	0.00019		mg/Kg-dry	1	9/19/2018
Chloromethane	ND	0.0094	0.00028		mg/Kg-dry	1	9/19/2018
Dibromochloromethane	ND	0.0047	0.00038		mg/Kg-dry	1	9/19/2018
1,1-Dichloroethane	ND	0.0047	0.00028		mg/Kg-dry	1	9/19/2018
1,2-Dichloroethane	ND	0.0047	0.00057		mg/Kg-dry	1	9/19/2018
1,1-Dichloroethene	ND	0.0047	0.00028		mg/Kg-dry	1	9/19/2018
cis-1,2-Dichloroethene	0.0043	0.0047	0.00028	J	mg/Kg-dry	1	9/19/2018
trans-1,2-Dichloroethene	0.00078	0.0047	0.00028	J	mg/Kg-dry	1	9/19/2018
1,2-Dichloropropane	ND	0.0047	0.00038		mg/Kg-dry	1	9/19/2018
cis-1,3-Dichloropropene	ND	0.0019	0.00019		mg/Kg-dry	1	9/19/2018
trans-1,3-Dichloropropene	ND	0.0019	0.00028		mg/Kg-dry	1	9/19/2018
Ethylbenzene	0.00031	0.0047	0.000094	J	mg/Kg-dry	1	9/19/2018
2-Hexanone	ND	0.019	0.00075		mg/Kg-dry	1	9/19/2018
4-Methyl-2-pentanone	ND	0.019	0.00028		mg/Kg-dry	1	9/19/2018
Methylene chloride	ND	0.0094	0.00075		mg/Kg-dry	1	9/19/2018
Methyl tert-butyl ether	ND	0.0047	0.00019		mg/Kg-dry	1	9/19/2018
Styrene	ND	0.0047	0.00019		mg/Kg-dry	1	9/19/2018
1,1,2,2-Tetrachloroethane	ND	0.0047	0.00019		mg/Kg-dry	1	9/19/2018
Tetrachloroethene	1.5	0.25	0.015		mg/Kg-dry	50	9/22/2018
Toluene	0.0010	0.0047	0.00019	J	mg/Kg-dry	1	9/19/2018
1,1,1-Trichloroethane	ND	0.0047	0.00019		mg/Kg-dry	1	9/19/2018
1,1,2-Trichloroethane	ND	0.0047	0.00047		mg/Kg-dry	1	9/19/2018
Trichloroethene	0.060	0.0047	0.00019		mg/Kg-dry	1	9/19/2018
Vinyl chloride	0.0027	0.0047	0.00038	J	mg/Kg-dry	1	9/19/2018
Xylenes, Total	ND	0.014	0.00038		mg/Kg-dry	1	9/19/2018

**Percent Moisture****D2974**

Prep Date: 9/18/2018

Analyst: VA

Percent Moisture	19.3	0.2	0.1	*	wt%	1	9/19/2018
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**Qualifiers:**

ND - Not Detected at the Reporting Limit

RL/MDL - Reporting Limit / Method Detection Limit for the analysis

J - Analyte detected below reporting limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded



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Date Reported: September 29, 2018

**ANALYTICAL RESULTS**

Date Printed: September 29, 2018

**CLIENT:** Hydrodynamics Consultant, Inc.  
**Work Order:** 18090542 Revision 0  
**Project:** Westwood Cleaners, 8731 West North Ave., Wauwato  
**Lab ID:** 18090542-018

**Client Sample ID:** NSB6-C  
**Collection Date:** 9/16/2018 2:18:00 PM  
**Matrix:** SOIL

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW8260B</b>		Prep Date: <b>9/20/2018</b>		Analyst: <b>ERP</b>	
Acetone	0.019	0.090	0.0028	J	mg/Kg-dry	1	9/20/2018
Benzene	ND	0.0060	0.00024		mg/Kg-dry	1	9/20/2018
Bromodichloromethane	ND	0.0060	0.00048		mg/Kg-dry	1	9/20/2018
Bromoform	ND	0.0060	0.00048		mg/Kg-dry	1	9/20/2018
Bromomethane	ND	0.012	0.0006		mg/Kg-dry	1	9/20/2018
2-Butanone	ND	0.090	0.0018		mg/Kg-dry	1	9/20/2018
Carbon disulfide	0.00054	0.060	0.00024	J	mg/Kg-dry	1	9/20/2018
Carbon tetrachloride	ND	0.0060	0.00036		mg/Kg-dry	1	9/20/2018
Chlorobenzene	ND	0.0060	0.00024		mg/Kg-dry	1	9/20/2018
Chloroethane	ND	0.012	0.00048		mg/Kg-dry	1	9/20/2018
Chloroform	ND	0.0060	0.00024		mg/Kg-dry	1	9/20/2018
Chloromethane	ND	0.012	0.00036		mg/Kg-dry	1	9/20/2018
Dibromochloromethane	ND	0.0060	0.00048		mg/Kg-dry	1	9/20/2018
1,1-Dichloroethane	ND	0.0060	0.00036		mg/Kg-dry	1	9/20/2018
1,2-Dichloroethane	ND	0.0060	0.00072		mg/Kg-dry	1	9/20/2018
1,1-Dichloroethene	ND	0.0060	0.00036		mg/Kg-dry	1	9/20/2018
cis-1,2-Dichloroethene	ND	0.0060	0.00036		mg/Kg-dry	1	9/20/2018
trans-1,2-Dichloroethene	ND	0.0060	0.00036		mg/Kg-dry	1	9/20/2018
1,2-Dichloropropane	ND	0.0060	0.00048		mg/Kg-dry	1	9/20/2018
cis-1,3-Dichloropropene	ND	0.0024	0.00024		mg/Kg-dry	1	9/20/2018
trans-1,3-Dichloropropene	ND	0.0024	0.00036		mg/Kg-dry	1	9/20/2018
Ethylbenzene	ND	0.0060	0.00012		mg/Kg-dry	1	9/20/2018
2-Hexanone	ND	0.024	0.00096		mg/Kg-dry	1	9/20/2018
4-Methyl-2-pentanone	ND	0.024	0.00036		mg/Kg-dry	1	9/20/2018
Methylene chloride	ND	0.012	0.00096		mg/Kg-dry	1	9/20/2018
Methyl tert-butyl ether	ND	0.0060	0.00024		mg/Kg-dry	1	9/20/2018
Styrene	ND	0.0060	0.00024		mg/Kg-dry	1	9/20/2018
1,1,2,2-Tetrachloroethane	ND	0.0060	0.00024		mg/Kg-dry	1	9/20/2018
Tetrachloroethene	0.0014	0.0060	0.00036	J	mg/Kg-dry	1	9/20/2018
Toluene	ND	0.0060	0.00024		mg/Kg-dry	1	9/20/2018
1,1,1-Trichloroethane	ND	0.0060	0.00024		mg/Kg-dry	1	9/20/2018
1,1,2-Trichloroethane	ND	0.0060	0.0006		mg/Kg-dry	1	9/20/2018
Trichloroethene	ND	0.0060	0.00024		mg/Kg-dry	1	9/20/2018
Vinyl chloride	ND	0.0060	0.00048		mg/Kg-dry	1	9/20/2018
Xylenes, Total	ND	0.018	0.00048		mg/Kg-dry	1	9/20/2018
<b>Percent Moisture</b>		<b>D2974</b>		Prep Date: <b>9/18/2018</b>		Analyst: <b>VA</b>	
Percent Moisture	9.6	0.2	0.1	*	wt%	1	9/19/2018

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below reporting limit

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL/MDL - Reporting Limit / Method Detection Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 29, 2018

**ANALYTICAL RESULTS**

Date Printed: September 29, 2018

**CLIENT:** Hydrodynamics Consultant, Inc.  
**Work Order:** 18090542 Revision 0  
**Project:** Westwood Cleaners, 8731 West North Ave., Wauwato  
**Lab ID:** 18090542-019

**Client Sample ID:** NSB7-A  
**Collection Date:** 9/16/2018 2:35:00 PM  
**Matrix:** SOIL

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
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Volatile Organic Compounds by GC/MS			SW5035/8260B	Prep Date: 9/18/2018		Analyst: MJK	
Acetone	0.077	0.062	0.0019		mg/Kg-dry	1	9/19/2018
Benzene	0.00051	0.0042	0.00017	J	mg/Kg-dry	1	9/19/2018
Bromodichloromethane	ND	0.0042	0.00033		mg/Kg-dry	1	9/19/2018
Bromoform	ND	0.0042	0.00033		mg/Kg-dry	1	9/19/2018
Bromomethane	ND	0.0083	0.00042		mg/Kg-dry	1	9/19/2018
2-Butanone	ND	0.062	0.0012		mg/Kg-dry	1	9/19/2018
Carbon disulfide	0.0017	0.042	0.00017	J	mg/Kg-dry	1	9/19/2018
Carbon tetrachloride	ND	0.0042	0.00025		mg/Kg-dry	1	9/19/2018
Chlorobenzene	ND	0.0042	0.00017		mg/Kg-dry	1	9/19/2018
Chloroethane	ND	0.0083	0.00033		mg/Kg-dry	1	9/19/2018
Chloroform	ND	0.0042	0.00017		mg/Kg-dry	1	9/19/2018
Chloromethane	ND	0.0083	0.00025		mg/Kg-dry	1	9/19/2018
Dibromochloromethane	ND	0.0042	0.00033		mg/Kg-dry	1	9/19/2018
1,1-Dichloroethane	ND	0.0042	0.00025		mg/Kg-dry	1	9/19/2018
1,2-Dichloroethane	ND	0.0042	0.0005		mg/Kg-dry	1	9/19/2018
1,1-Dichloroethene	ND	0.0042	0.00025		mg/Kg-dry	1	9/19/2018
cis-1,2-Dichloroethene	ND	0.0042	0.00025		mg/Kg-dry	1	9/19/2018
trans-1,2-Dichloroethene	ND	0.0042	0.00025		mg/Kg-dry	1	9/19/2018
1,2-Dichloropropane	ND	0.0042	0.00033		mg/Kg-dry	1	9/19/2018
cis-1,3-Dichloropropene	ND	0.0017	0.00017		mg/Kg-dry	1	9/19/2018
trans-1,3-Dichloropropene	ND	0.0017	0.00025		mg/Kg-dry	1	9/19/2018
Ethylbenzene	0.00037	0.0042	0.000083	J	mg/Kg-dry	1	9/19/2018
2-Hexanone	ND	0.017	0.00066		mg/Kg-dry	1	9/19/2018
4-Methyl-2-pentanone	ND	0.017	0.00025		mg/Kg-dry	1	9/19/2018
Methylene chloride	0.0026	0.0083	0.00066	J	mg/Kg-dry	1	9/19/2018
Methyl tert-butyl ether	ND	0.0042	0.00017		mg/Kg-dry	1	9/19/2018
Styrene	ND	0.0042	0.00017		mg/Kg-dry	1	9/19/2018
1,1,2,2-Tetrachloroethane	ND	0.0042	0.00017		mg/Kg-dry	1	9/19/2018
Tetrachloroethene	0.0042	0.0042	0.00025	J	mg/Kg-dry	1	9/19/2018
Toluene	0.0011	0.0042	0.00017	J	mg/Kg-dry	1	9/19/2018
1,1,1-Trichloroethane	ND	0.0042	0.00017		mg/Kg-dry	1	9/19/2018
1,1,2-Trichloroethane	ND	0.0042	0.00042		mg/Kg-dry	1	9/19/2018
Trichloroethene	ND	0.0042	0.00017		mg/Kg-dry	1	9/19/2018
Vinyl chloride	ND	0.0042	0.00033		mg/Kg-dry	1	9/19/2018
Xylenes, Total	0.00056	0.012	0.00033	J	mg/Kg-dry	1	9/19/2018

Percent Moisture		D2974		Prep Date: 9/18/2018		Analyst: VA	
Percent Moisture	13.5	0.2	0.1	*	wt%	1	9/19/2018

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below reporting limit  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL/MDL - Reporting Limit / Method Detection Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 29, 2018

**ANALYTICAL RESULTS**

Date Printed: September 29, 2018

**CLIENT:** Hydrodynamics Consultant, Inc.  
**Work Order:** 18090542 Revision 0  
**Project:** Westwood Cleaners, 8731 West North Ave., Wauwato  
**Lab ID:** 18090542-020

**Client Sample ID:** NSB7-B  
**Collection Date:** 9/16/2018 2:50:00 PM  
**Matrix:** SOIL

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
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Volatile Organic Compounds by GC/MS				SW5035/8260B		Prep Date: 9/18/2018	Analyst: MJK
Acetone	0.050	0.067	0.0021	J	mg/Kg-dry	1	9/19/2018
Benzene	0.0010	0.0045	0.00018	J	mg/Kg-dry	1	9/19/2018
Bromodichloromethane	ND	0.0045	0.00036		mg/Kg-dry	1	9/19/2018
Bromoform	ND	0.0045	0.00036		mg/Kg-dry	1	9/19/2018
Bromomethane	ND	0.0090	0.00045		mg/Kg-dry	1	9/19/2018
2-Butanone	ND	0.067	0.0013		mg/Kg-dry	1	9/19/2018
Carbon disulfide	0.0040	0.045	0.00018	J	mg/Kg-dry	1	9/19/2018
Carbon tetrachloride	ND	0.0045	0.00027		mg/Kg-dry	1	9/19/2018
Chlorobenzene	ND	0.0045	0.00018		mg/Kg-dry	1	9/19/2018
Chloroethane	ND	0.0090	0.00036		mg/Kg-dry	1	9/19/2018
Chloroform	ND	0.0045	0.00018		mg/Kg-dry	1	9/19/2018
Chloromethane	ND	0.0090	0.00027		mg/Kg-dry	1	9/19/2018
Dibromochloromethane	ND	0.0045	0.00036		mg/Kg-dry	1	9/19/2018
1,1-Dichloroethane	ND	0.0045	0.00027		mg/Kg-dry	1	9/19/2018
1,2-Dichloroethane	ND	0.0045	0.00054		mg/Kg-dry	1	9/19/2018
1,1-Dichloroethene	ND	0.0045	0.00027		mg/Kg-dry	1	9/19/2018
cis-1,2-Dichloroethene	ND	0.0045	0.00027		mg/Kg-dry	1	9/19/2018
trans-1,2-Dichloroethene	ND	0.0045	0.00027		mg/Kg-dry	1	9/19/2018
1,2-Dichloropropane	ND	0.0045	0.00036		mg/Kg-dry	1	9/19/2018
cis-1,3-Dichloropropene	ND	0.0018	0.00018		mg/Kg-dry	1	9/19/2018
trans-1,3-Dichloropropene	ND	0.0018	0.00027		mg/Kg-dry	1	9/19/2018
Ethylbenzene	ND	0.0045	0.00009		mg/Kg-dry	1	9/19/2018
2-Hexanone	ND	0.018	0.00072		mg/Kg-dry	1	9/19/2018
4-Methyl-2-pentanone	ND	0.018	0.00027		mg/Kg-dry	1	9/19/2018
Methylene chloride	0.0034	0.0090	0.00072	J	mg/Kg-dry	1	9/19/2018
Methyl tert-butyl ether	ND	0.0045	0.00018		mg/Kg-dry	1	9/19/2018
Styrene	ND	0.0045	0.00018		mg/Kg-dry	1	9/19/2018
1,1,2,2-Tetrachloroethane	ND	0.0045	0.00018		mg/Kg-dry	1	9/19/2018
Tetrachloroethene	0.011	0.0045	0.00027		mg/Kg-dry	1	9/19/2018
Toluene	0.0020	0.0045	0.00018	J	mg/Kg-dry	1	9/19/2018
1,1,1-Trichloroethane	ND	0.0045	0.00018		mg/Kg-dry	1	9/19/2018
1,1,2-Trichloroethane	ND	0.0045	0.00045		mg/Kg-dry	1	9/19/2018
Trichloroethene	ND	0.0045	0.00018		mg/Kg-dry	1	9/19/2018
Vinyl chloride	ND	0.0045	0.00036		mg/Kg-dry	1	9/19/2018
Xylenes, Total	0.00085	0.013	0.00036	J	mg/Kg-dry	1	9/19/2018

Percent Moisture		D2974		Prep Date: 9/18/2018		Analyst: VA	
Percent Moisture	18.4	0.2	0.1	*	wt%	1	9/19/2018

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below reporting limit  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL/MDL - Reporting Limit / Method Detection Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
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 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 29, 2018

**ANALYTICAL RESULTS**

Date Printed: September 29, 2018

**CLIENT:** Hydrodynamics Consultant, Inc.  
**Work Order:** 18090542 Revision 0  
**Project:** Westwood Cleaners, 8731 West North Ave., Wauwato  
**Lab ID:** 18090542-021

**Client Sample ID:** NSB7-C  
**Collection Date:** 9/16/2018 3:06:00 PM  
**Matrix:** SOIL

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		<b>Prep Date: 9/18/2018</b>		<b>Analyst: MJK</b>	
Acetone	0.0081	0.074	0.0023	J	mg/Kg-dry	1	9/19/2018
Benzene	ND	0.0049	0.0002		mg/Kg-dry	1	9/19/2018
Bromodichloromethane	ND	0.0049	0.00039		mg/Kg-dry	1	9/19/2018
Bromoform	ND	0.0049	0.00039		mg/Kg-dry	1	9/19/2018
Bromomethane	ND	0.0098	0.00049		mg/Kg-dry	1	9/19/2018
2-Butanone	ND	0.074	0.0015		mg/Kg-dry	1	9/19/2018
Carbon disulfide	ND	0.049	0.0002		mg/Kg-dry	1	9/19/2018
Carbon tetrachloride	ND	0.0049	0.0003		mg/Kg-dry	1	9/19/2018
Chlorobenzene	ND	0.0049	0.0002		mg/Kg-dry	1	9/19/2018
Chloroethane	ND	0.0098	0.00039		mg/Kg-dry	1	9/19/2018
Chloroform	ND	0.0049	0.0002		mg/Kg-dry	1	9/19/2018
Chloromethane	ND	0.0098	0.0003		mg/Kg-dry	1	9/19/2018
Dibromochloromethane	ND	0.0049	0.00039		mg/Kg-dry	1	9/19/2018
1,1-Dichloroethane	ND	0.0049	0.0003		mg/Kg-dry	1	9/19/2018
1,2-Dichloroethane	ND	0.0049	0.00059		mg/Kg-dry	1	9/19/2018
1,1-Dichloroethene	ND	0.0049	0.0003		mg/Kg-dry	1	9/19/2018
cis-1,2-Dichloroethene	ND	0.0049	0.0003		mg/Kg-dry	1	9/19/2018
trans-1,2-Dichloroethene	ND	0.0049	0.0003		mg/Kg-dry	1	9/19/2018
1,2-Dichloropropane	ND	0.0049	0.00039		mg/Kg-dry	1	9/19/2018
cis-1,3-Dichloropropene	ND	0.0020	0.0002		mg/Kg-dry	1	9/19/2018
trans-1,3-Dichloropropene	ND	0.0020	0.0003		mg/Kg-dry	1	9/19/2018
Ethylbenzene	ND	0.0049	0.000098		mg/Kg-dry	1	9/19/2018
2-Hexanone	ND	0.020	0.00079		mg/Kg-dry	1	9/19/2018
4-Methyl-2-pentanone	ND	0.020	0.0003		mg/Kg-dry	1	9/19/2018
Methylene chloride	ND	0.0098	0.00079		mg/Kg-dry	1	9/19/2018
Methyl tert-butyl ether	ND	0.0049	0.0002		mg/Kg-dry	1	9/19/2018
Styrene	ND	0.0049	0.0002		mg/Kg-dry	1	9/19/2018
1,1,2,2-Tetrachloroethane	ND	0.0049	0.0002		mg/Kg-dry	1	9/19/2018
Tetrachloroethene	ND	0.0049	0.0003		mg/Kg-dry	1	9/19/2018
Toluene	ND	0.0049	0.0002		mg/Kg-dry	1	9/19/2018
1,1,1-Trichloroethane	ND	0.0049	0.0002		mg/Kg-dry	1	9/19/2018
1,1,2-Trichloroethane	ND	0.0049	0.00049		mg/Kg-dry	1	9/19/2018
Trichloroethene	ND	0.0049	0.0002		mg/Kg-dry	1	9/19/2018
Vinyl chloride	ND	0.0049	0.00039		mg/Kg-dry	1	9/19/2018
Xylenes, Total	ND	0.015	0.00039		mg/Kg-dry	1	9/19/2018
<b>Percent Moisture</b>		<b>D2974</b>		<b>Prep Date: 9/18/2018</b>		<b>Analyst: VA</b>	
Percent Moisture	10.5	0.2	0.1	*	wt%	1	9/19/2018

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below reporting limit  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter  
 RL/MDL - Reporting Limit / Method Detection Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Date Reported: September 29, 2018

**ANALYTICAL RESULTS**

Date Printed: September 29, 2018

**CLIENT:** Hydrodynamics Consultant, Inc.  
**Work Order:** 18090542 Revision 0  
**Project:** Westwood Cleaners, 8731 West North Ave., Wauwato  
**Lab ID:** 18090542-022

**Client Sample ID:** NSB8-A  
**Collection Date:** 9/16/2018 3:25:00 PM  
**Matrix:** SOIL

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
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Volatile Organic Compounds by GC/MS				SW5035/8260B		Prep Date: 9/18/2018	Analyst: MJK
Acetone	0.031	0.065	0.002	J	mg/Kg-dry	1	9/19/2018
Benzene	0.00089	0.0043	0.00017	J	mg/Kg-dry	1	9/19/2018
Bromodichloromethane	ND	0.0043	0.00034		mg/Kg-dry	1	9/19/2018
Bromoform	ND	0.0043	0.00034		mg/Kg-dry	1	9/19/2018
Bromomethane	ND	0.0086	0.00043		mg/Kg-dry	1	9/19/2018
2-Butanone	ND	0.065	0.0013		mg/Kg-dry	1	9/19/2018
Carbon disulfide	ND	0.043	0.00017		mg/Kg-dry	1	9/19/2018
Carbon tetrachloride	ND	0.0043	0.00026		mg/Kg-dry	1	9/19/2018
Chlorobenzene	ND	0.0043	0.00017		mg/Kg-dry	1	9/19/2018
Chloroethane	ND	0.0086	0.00034		mg/Kg-dry	1	9/19/2018
Chloroform	ND	0.0043	0.00017		mg/Kg-dry	1	9/19/2018
Chloromethane	ND	0.0086	0.00026		mg/Kg-dry	1	9/19/2018
Dibromochloromethane	ND	0.0043	0.00034		mg/Kg-dry	1	9/19/2018
1,1-Dichloroethane	ND	0.0043	0.00026		mg/Kg-dry	1	9/19/2018
1,2-Dichloroethane	ND	0.0043	0.00052		mg/Kg-dry	1	9/19/2018
1,1-Dichloroethene	ND	0.0043	0.00026		mg/Kg-dry	1	9/19/2018
cis-1,2-Dichloroethene	ND	0.0043	0.00026		mg/Kg-dry	1	9/19/2018
trans-1,2-Dichloroethene	ND	0.0043	0.00026		mg/Kg-dry	1	9/19/2018
1,2-Dichloropropane	ND	0.0043	0.00034		mg/Kg-dry	1	9/19/2018
cis-1,3-Dichloropropene	ND	0.0017	0.00017		mg/Kg-dry	1	9/19/2018
trans-1,3-Dichloropropene	ND	0.0017	0.00026		mg/Kg-dry	1	9/19/2018
Ethylbenzene	0.00052	0.0043	0.000086	J	mg/Kg-dry	1	9/19/2018
2-Hexanone	ND	0.017	0.00069		mg/Kg-dry	1	9/19/2018
4-Methyl-2-pentanone	ND	0.017	0.00026		mg/Kg-dry	1	9/19/2018
Methylene chloride	0.0024	0.0086	0.00069	J	mg/Kg-dry	1	9/19/2018
Methyl tert-butyl ether	ND	0.0043	0.00017		mg/Kg-dry	1	9/19/2018
Styrene	ND	0.0043	0.00017		mg/Kg-dry	1	9/19/2018
1,1,2,2-Tetrachloroethane	ND	0.0043	0.00017		mg/Kg-dry	1	9/19/2018
Tetrachloroethene	ND	0.0043	0.00026		mg/Kg-dry	1	9/19/2018
Toluene	0.0015	0.0043	0.00017	J	mg/Kg-dry	1	9/19/2018
1,1,1-Trichloroethane	ND	0.0043	0.00017		mg/Kg-dry	1	9/19/2018
1,1,2-Trichloroethane	ND	0.0043	0.00043		mg/Kg-dry	1	9/19/2018
Trichloroethene	ND	0.0043	0.00017		mg/Kg-dry	1	9/19/2018
Vinyl chloride	ND	0.0043	0.00034		mg/Kg-dry	1	9/19/2018
Xylenes, Total	ND	0.013	0.00034		mg/Kg-dry	1	9/19/2018

Percent Moisture		D2974		Prep Date: 9/18/2018		Analyst: VA	
Percent Moisture	15.6	0.2	0.1	*	wt%	1	9/19/2018

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below reporting limit  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL/MDL - Reporting Limit / Method Detection Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 29, 2018

**ANALYTICAL RESULTS**

Date Printed: September 29, 2018

**CLIENT:** Hydrodynamics Consultant, Inc.  
**Work Order:** 18090542 Revision 0  
**Project:** Westwood Cleaners, 8731 West North Ave., Wauwato  
**Lab ID:** 18090542-023

**Client Sample ID:** NSB8-B  
**Collection Date:** 9/16/2018 3:40:00 PM  
**Matrix:** SOIL

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		<b>Prep Date: 9/18/2018</b>		<b>Analyst: MJK</b>	
Acetone	ND	0.078	0.0024		mg/Kg-dry	1	9/19/2018
Benzene	0.00061	0.0052	0.00021	J	mg/Kg-dry	1	9/19/2018
Bromodichloromethane	ND	0.0052	0.00042		mg/Kg-dry	1	9/19/2018
Bromoform	ND	0.0052	0.00042		mg/Kg-dry	1	9/19/2018
Bromomethane	ND	0.010	0.00052		mg/Kg-dry	1	9/19/2018
2-Butanone	ND	0.078	0.0016		mg/Kg-dry	1	9/19/2018
Carbon disulfide	ND	0.052	0.00021		mg/Kg-dry	1	9/19/2018
Carbon tetrachloride	ND	0.0052	0.00031		mg/Kg-dry	1	9/19/2018
Chlorobenzene	ND	0.0052	0.00021		mg/Kg-dry	1	9/19/2018
Chloroethane	ND	0.010	0.00042		mg/Kg-dry	1	9/19/2018
Chloroform	ND	0.0052	0.00021		mg/Kg-dry	1	9/19/2018
Chloromethane	ND	0.010	0.00031		mg/Kg-dry	1	9/19/2018
Dibromochloromethane	ND	0.0052	0.00042		mg/Kg-dry	1	9/19/2018
1,1-Dichloroethane	ND	0.0052	0.00031		mg/Kg-dry	1	9/19/2018
1,2-Dichloroethane	ND	0.0052	0.00062		mg/Kg-dry	1	9/19/2018
1,1-Dichloroethene	ND	0.0052	0.00031		mg/Kg-dry	1	9/19/2018
cis-1,2-Dichloroethene	ND	0.0052	0.00031		mg/Kg-dry	1	9/19/2018
trans-1,2-Dichloroethene	ND	0.0052	0.00031		mg/Kg-dry	1	9/19/2018
1,2-Dichloropropane	ND	0.0052	0.00042		mg/Kg-dry	1	9/19/2018
cis-1,3-Dichloropropene	ND	0.0021	0.00021		mg/Kg-dry	1	9/19/2018
trans-1,3-Dichloropropene	ND	0.0021	0.00031		mg/Kg-dry	1	9/19/2018
Ethylbenzene	ND	0.0052	0.0001		mg/Kg-dry	1	9/19/2018
2-Hexanone	ND	0.021	0.00083		mg/Kg-dry	1	9/19/2018
4-Methyl-2-pentanone	ND	0.021	0.00031		mg/Kg-dry	1	9/19/2018
Methylene chloride	ND	0.010	0.00083		mg/Kg-dry	1	9/19/2018
Methyl tert-butyl ether	ND	0.0052	0.00021		mg/Kg-dry	1	9/19/2018
Styrene	ND	0.0052	0.00021		mg/Kg-dry	1	9/19/2018
1,1,2,2-Tetrachloroethane	ND	0.0052	0.00021		mg/Kg-dry	1	9/19/2018
Tetrachloroethene	ND	0.0052	0.00031		mg/Kg-dry	1	9/19/2018
Toluene	0.0011	0.0052	0.00021	J	mg/Kg-dry	1	9/19/2018
1,1,1-Trichloroethane	ND	0.0052	0.00021		mg/Kg-dry	1	9/19/2018
1,1,2-Trichloroethane	ND	0.0052	0.00052		mg/Kg-dry	1	9/19/2018
Trichloroethene	0.0022	0.0052	0.00021	J	mg/Kg-dry	1	9/19/2018
Vinyl chloride	ND	0.0052	0.00042		mg/Kg-dry	1	9/19/2018
Xylenes, Total	0.00064	0.016	0.00042	J	mg/Kg-dry	1	9/19/2018
<b>Percent Moisture</b>		<b>D2974</b>		<b>Prep Date: 9/18/2018</b>		<b>Analyst: VA</b>	
Percent Moisture	20.7	0.2	0.1	*	wt%	1	9/19/2018

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below reporting limit  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL/MDL - Reporting Limit / Method Detection Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Date Reported: September 29, 2018

**ANALYTICAL RESULTS**

Date Printed: September 29, 2018

CLIENT: Hydrodynamics Consultant, Inc.

Work Order: 18090542 Revision 0

Project: Westwood Cleaners, 8731 West North Ave., Wauwato

Lab ID: 18090542-024

Client Sample ID: NSB8-C

Collection Date: 9/16/2018 3:56:00 PM

Matrix: SOIL

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: 9/18/2018		Analyst: MJK	
Acetone	0.025	0.068	0.0021	J	mg/Kg-dry	1	9/20/2018
Benzene	0.00027	0.0046	0.00018	J	mg/Kg-dry	1	9/20/2018
Bromodichloromethane	ND	0.0046	0.00036		mg/Kg-dry	1	9/20/2018
Bromoform	ND	0.0046	0.00036		mg/Kg-dry	1	9/20/2018
Bromomethane	ND	0.0091	0.00046		mg/Kg-dry	1	9/20/2018
2-Butanone	ND	0.068	0.0014		mg/Kg-dry	1	9/20/2018
Carbon disulfide	ND	0.046	0.00018		mg/Kg-dry	1	9/20/2018
Carbon tetrachloride	ND	0.0046	0.00027		mg/Kg-dry	1	9/20/2018
Chlorobenzene	ND	0.0046	0.00018		mg/Kg-dry	1	9/20/2018
Chloroethane	ND	0.0091	0.00036		mg/Kg-dry	1	9/20/2018
Chloroform	ND	0.0046	0.00018		mg/Kg-dry	1	9/20/2018
Chloromethane	ND	0.0091	0.00027		mg/Kg-dry	1	9/20/2018
Dibromochloromethane	ND	0.0046	0.00036		mg/Kg-dry	1	9/20/2018
1,1-Dichloroethane	ND	0.0046	0.00027		mg/Kg-dry	1	9/20/2018
1,2-Dichloroethane	ND	0.0046	0.00055		mg/Kg-dry	1	9/20/2018
1,1-Dichloroethene	ND	0.0046	0.00027		mg/Kg-dry	1	9/20/2018
cis-1,2-Dichloroethene	ND	0.0046	0.00027		mg/Kg-dry	1	9/20/2018
trans-1,2-Dichloroethene	ND	0.0046	0.00027		mg/Kg-dry	1	9/20/2018
1,2-Dichloropropane	ND	0.0046	0.00036		mg/Kg-dry	1	9/20/2018
cis-1,3-Dichloropropene	ND	0.0018	0.00018		mg/Kg-dry	1	9/20/2018
trans-1,3-Dichloropropene	ND	0.0018	0.00027		mg/Kg-dry	1	9/20/2018
Ethylbenzene	ND	0.0046	0.000091		mg/Kg-dry	1	9/20/2018
2-Hexanone	ND	0.018	0.00073		mg/Kg-dry	1	9/20/2018
4-Methyl-2-pentanone	ND	0.018	0.00027		mg/Kg-dry	1	9/20/2018
Methylene chloride	0.0015	0.0091	0.00073	J	mg/Kg-dry	1	9/20/2018
Methyl tert-butyl ether	ND	0.0046	0.00018		mg/Kg-dry	1	9/20/2018
Styrene	ND	0.0046	0.00018		mg/Kg-dry	1	9/20/2018
1,1,2,2-Tetrachloroethane	ND	0.0046	0.00018		mg/Kg-dry	1	9/20/2018
Tetrachloroethene	ND	0.0046	0.00027		mg/Kg-dry	1	9/20/2018
Toluene	ND	0.0046	0.00018		mg/Kg-dry	1	9/20/2018
1,1,1-Trichloroethane	ND	0.0046	0.00018		mg/Kg-dry	1	9/20/2018
1,1,2-Trichloroethane	ND	0.0046	0.00046		mg/Kg-dry	1	9/20/2018
Trichloroethene	ND	0.0046	0.00018		mg/Kg-dry	1	9/20/2018
Vinyl chloride	ND	0.0046	0.00036		mg/Kg-dry	1	9/20/2018
Xylenes, Total	ND	0.014	0.00036		mg/Kg-dry	1	9/20/2018
<b>Percent Moisture</b>		<b>D2974</b>		Prep Date: 9/18/2018		Analyst: VA	
Percent Moisture	14.6	0.2	0.1	*	wt%	1	9/19/2018

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below reporting limit

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL/MDL - Reporting Limit / Method Detection Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 29, 2018

**ANALYTICAL RESULTS**

Date Printed: September 29, 2018

**CLIENT:** Hydrodynamics Consultant, Inc.  
**Work Order:** 18090542 Revision 0  
**Project:** Westwood Cleaners, 8731 West North Ave., Wauwato  
**Lab ID:** 18090542-025

**Client Sample ID:** NSB9-A  
**Collection Date:** 9/16/2018 4:15:00 PM  
**Matrix:** SOIL

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS****SW5035/8260B**

Prep Date: 9/18/2018

Analyst: MJK

Acetone	0.066	0.075	0.0023	J	mg/Kg-dry	1	9/20/2018
Benzene	ND	0.0050	0.0002		mg/Kg-dry	1	9/20/2018
Bromodichloromethane	ND	0.0050	0.0004		mg/Kg-dry	1	9/20/2018
Bromoform	ND	0.0050	0.0004		mg/Kg-dry	1	9/20/2018
Bromomethane	ND	0.010	0.0005		mg/Kg-dry	1	9/20/2018
2-Butanone	ND	0.075	0.0015		mg/Kg-dry	1	9/20/2018
Carbon disulfide	ND	0.050	0.0002		mg/Kg-dry	1	9/20/2018
Carbon tetrachloride	ND	0.0050	0.0003		mg/Kg-dry	1	9/20/2018
Chlorobenzene	ND	0.0050	0.0002		mg/Kg-dry	1	9/20/2018
Chloroethane	ND	0.010	0.0004		mg/Kg-dry	1	9/20/2018
Chloroform	ND	0.0050	0.0002		mg/Kg-dry	1	9/20/2018
Chloromethane	ND	0.010	0.0003		mg/Kg-dry	1	9/20/2018
Dibromochloromethane	ND	0.0050	0.0004		mg/Kg-dry	1	9/20/2018
1,1-Dichloroethane	ND	0.0050	0.0003		mg/Kg-dry	1	9/20/2018
1,2-Dichloroethane	ND	0.0050	0.0006		mg/Kg-dry	1	9/20/2018
1,1-Dichloroethene	ND	0.0050	0.0003		mg/Kg-dry	1	9/20/2018
cis-1,2-Dichloroethene	ND	0.0050	0.0003		mg/Kg-dry	1	9/20/2018
trans-1,2-Dichloroethene	ND	0.0050	0.0003		mg/Kg-dry	1	9/20/2018
1,2-Dichloropropane	ND	0.0050	0.0004		mg/Kg-dry	1	9/20/2018
cis-1,3-Dichloropropene	ND	0.0020	0.0002		mg/Kg-dry	1	9/20/2018
trans-1,3-Dichloropropene	ND	0.0020	0.0003		mg/Kg-dry	1	9/20/2018
Ethylbenzene	ND	0.0050	0.0001		mg/Kg-dry	1	9/20/2018
2-Hexanone	ND	0.020	0.0008		mg/Kg-dry	1	9/20/2018
4-Methyl-2-pentanone	ND	0.020	0.0003		mg/Kg-dry	1	9/20/2018
Methylene chloride	0.0020	0.010	0.0008	J	mg/Kg-dry	1	9/20/2018
Methyl tert-butyl ether	ND	0.0050	0.0002		mg/Kg-dry	1	9/20/2018
Styrene	ND	0.0050	0.0002		mg/Kg-dry	1	9/20/2018
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0002		mg/Kg-dry	1	9/20/2018
Tetrachloroethene	0.014	0.0050	0.0003		mg/Kg-dry	1	9/20/2018
Toluene	ND	0.0050	0.0002		mg/Kg-dry	1	9/20/2018
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/Kg-dry	1	9/20/2018
1,1,2-Trichloroethane	ND	0.0050	0.0005		mg/Kg-dry	1	9/20/2018
Trichloroethene	ND	0.0050	0.0002		mg/Kg-dry	1	9/20/2018
Vinyl chloride	ND	0.0050	0.0004		mg/Kg-dry	1	9/20/2018
Xylenes, Total	ND	0.015	0.0004		mg/Kg-dry	1	9/20/2018

**Percent Moisture****D2974**

Prep Date: 9/18/2018

Analyst: VA

Percent Moisture	19.5	0.2	0.1	*	wt%	1	9/19/2018
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**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below reporting limit

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL/MDL - Reporting Limit / Method Detection Limit for the analysis

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E - Value above quantitation range

H - Holding time exceeded



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Date Reported: September 29, 2018

**ANALYTICAL RESULTS**

Date Printed: September 29, 2018

**CLIENT:** Hydrodynamics Consultant, Inc.  
**Work Order:** 18090542 Revision 0  
**Project:** Westwood Cleaners, 8731 West North Ave., Wauwato  
**Lab ID:** 18090542-026

**Client Sample ID:** NSB9-B  
**Collection Date:** 9/16/2018 4:30:00 PM  
**Matrix:** SOIL

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
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Volatile Organic Compounds by GC/MS			SW5035/8260B	Prep Date: 9/18/2018		Analyst: MJK	
Acetone	ND	0.078	0.0024		mg/Kg-dry	1	9/20/2018
Benzene	0.00097	0.0052	0.00021	J	mg/Kg-dry	1	9/20/2018
Bromodichloromethane	ND	0.0052	0.00042		mg/Kg-dry	1	9/20/2018
Bromoform	ND	0.0052	0.00042		mg/Kg-dry	1	9/20/2018
Bromomethane	ND	0.010	0.00052		mg/Kg-dry	1	9/20/2018
2-Butanone	ND	0.078	0.0016		mg/Kg-dry	1	9/20/2018
Carbon disulfide	ND	0.052	0.00021		mg/Kg-dry	1	9/20/2018
Carbon tetrachloride	ND	0.0052	0.00031		mg/Kg-dry	1	9/20/2018
Chlorobenzene	ND	0.0052	0.00021		mg/Kg-dry	1	9/20/2018
Chloroethane	ND	0.010	0.00042		mg/Kg-dry	1	9/20/2018
Chloroform	ND	0.0052	0.00021		mg/Kg-dry	1	9/20/2018
Chloromethane	ND	0.010	0.00031		mg/Kg-dry	1	9/20/2018
Dibromochloromethane	ND	0.0052	0.00042		mg/Kg-dry	1	9/20/2018
1,1-Dichloroethane	ND	0.0052	0.00031		mg/Kg-dry	1	9/20/2018
1,2-Dichloroethane	ND	0.0052	0.00062		mg/Kg-dry	1	9/20/2018
1,1-Dichloroethene	ND	0.0052	0.00031		mg/Kg-dry	1	9/20/2018
cis-1,2-Dichloroethene	0.0080	0.0052	0.00031		mg/Kg-dry	1	9/20/2018
trans-1,2-Dichloroethene	ND	0.0052	0.00031		mg/Kg-dry	1	9/20/2018
1,2-Dichloropropane	ND	0.0052	0.00042		mg/Kg-dry	1	9/20/2018
cis-1,3-Dichloropropene	ND	0.0021	0.00021		mg/Kg-dry	1	9/20/2018
trans-1,3-Dichloropropene	ND	0.0021	0.00031		mg/Kg-dry	1	9/20/2018
Ethylbenzene	0.00067	0.0052	0.0001	J	mg/Kg-dry	1	9/20/2018
2-Hexanone	ND	0.021	0.00083		mg/Kg-dry	1	9/20/2018
4-Methyl-2-pentanone	ND	0.021	0.00031		mg/Kg-dry	1	9/20/2018
Methylene chloride	0.0013	0.010	0.00083	J	mg/Kg-dry	1	9/20/2018
Methyl tert-butyl ether	ND	0.0052	0.00021		mg/Kg-dry	1	9/20/2018
Styrene	ND	0.0052	0.00021		mg/Kg-dry	1	9/20/2018
1,1,2,2-Tetrachloroethane	ND	0.0052	0.00021		mg/Kg-dry	1	9/20/2018
Tetrachloroethene	ND	0.0052	0.00031		mg/Kg-dry	1	9/20/2018
Toluene	0.0017	0.0052	0.00021	J	mg/Kg-dry	1	9/20/2018
1,1,1-Trichloroethane	ND	0.0052	0.00021		mg/Kg-dry	1	9/20/2018
1,1,2-Trichloroethane	ND	0.0052	0.00052		mg/Kg-dry	1	9/20/2018
Trichloroethene	0.0049	0.0052	0.00021	J	mg/Kg-dry	1	9/20/2018
Vinyl chloride	ND	0.0052	0.00042		mg/Kg-dry	1	9/20/2018
Xylenes, Total	ND	0.016	0.00042		mg/Kg-dry	1	9/20/2018

Percent Moisture			D2974	Prep Date: 9/18/2018		Analyst: VA	
Percent Moisture	24.1	0.2	0.1	*	wt%	1	9/19/2018

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below reporting limit  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL/MDL - Reporting Limit / Method Detection Limit for the analysis  
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 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Date Reported: September 29, 2018

**ANALYTICAL RESULTS**

Date Printed: September 29, 2018

CLIENT: Hydrodynamics Consultant, Inc.

Client Sample ID: NSB9-C

Work Order: 18090542 Revision 0

Collection Date: 9/16/2018 4:46:00 PM

Project: Westwood Cleaners, 8731 West North Ave., Wauwato

Matrix: SOIL

Lab ID: 18090542-027

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS****SW5035/8260B**

Prep Date: 9/18/2018

Analyst: MJK

Acetone	0.032	0.062	0.0019	J	mg/Kg-dry	1	9/20/2018
Benzene	0.0018	0.0041	0.00017	J	mg/Kg-dry	1	9/20/2018
Bromodichloromethane	ND	0.0041	0.00033		mg/Kg-dry	1	9/20/2018
Bromoform	ND	0.0041	0.00033		mg/Kg-dry	1	9/20/2018
Bromomethane	ND	0.0083	0.00041		mg/Kg-dry	1	9/20/2018
2-Butanone	ND	0.062	0.0012		mg/Kg-dry	1	9/20/2018
Carbon disulfide	ND	0.041	0.00017		mg/Kg-dry	1	9/20/2018
Carbon tetrachloride	ND	0.0041	0.00025		mg/Kg-dry	1	9/20/2018
Chlorobenzene	ND	0.0041	0.00017		mg/Kg-dry	1	9/20/2018
Chloroethane	ND	0.0083	0.00033		mg/Kg-dry	1	9/20/2018
Chloroform	ND	0.0041	0.00017		mg/Kg-dry	1	9/20/2018
Chloromethane	ND	0.0083	0.00025		mg/Kg-dry	1	9/20/2018
Dibromochloromethane	ND	0.0041	0.00033		mg/Kg-dry	1	9/20/2018
1,1-Dichloroethane	ND	0.0041	0.00025		mg/Kg-dry	1	9/20/2018
1,2-Dichloroethane	ND	0.0041	0.0005		mg/Kg-dry	1	9/20/2018
1,1-Dichloroethene	ND	0.0041	0.00025		mg/Kg-dry	1	9/20/2018
cis-1,2-Dichloroethene	ND	0.0041	0.00025		mg/Kg-dry	1	9/20/2018
trans-1,2-Dichloroethene	ND	0.0041	0.00025		mg/Kg-dry	1	9/20/2018
1,2-Dichloropropane	ND	0.0041	0.00033		mg/Kg-dry	1	9/20/2018
cis-1,3-Dichloropropene	ND	0.0017	0.00017		mg/Kg-dry	1	9/20/2018
trans-1,3-Dichloropropene	ND	0.0017	0.00025		mg/Kg-dry	1	9/20/2018
Ethylbenzene	0.00051	0.0041	0.000083	J	mg/Kg-dry	1	9/20/2018
2-Hexanone	ND	0.017	0.00066		mg/Kg-dry	1	9/20/2018
4-Methyl-2-pentanone	ND	0.017	0.00025		mg/Kg-dry	1	9/20/2018
Methylene chloride	0.0012	0.0083	0.00066	J	mg/Kg-dry	1	9/20/2018
Methyl tert-butyl ether	ND	0.0041	0.00017		mg/Kg-dry	1	9/20/2018
Styrene	ND	0.0041	0.00017		mg/Kg-dry	1	9/20/2018
1,1,2,2-Tetrachloroethane	ND	0.0041	0.00017		mg/Kg-dry	1	9/20/2018
Tetrachloroethene	ND	0.0041	0.00025		mg/Kg-dry	1	9/20/2018
Toluene	0.0023	0.0041	0.00017	J	mg/Kg-dry	1	9/20/2018
1,1,1-Trichloroethane	ND	0.0041	0.00017		mg/Kg-dry	1	9/20/2018
1,1,2-Trichloroethane	ND	0.0041	0.00041		mg/Kg-dry	1	9/20/2018
Trichloroethene	ND	0.0041	0.00017		mg/Kg-dry	1	9/20/2018
Vinyl chloride	ND	0.0041	0.00033		mg/Kg-dry	1	9/20/2018
Xylenes, Total	ND	0.012	0.00033		mg/Kg-dry	1	9/20/2018

**Percent Moisture****D2974**

Prep Date: 9/18/2018

Analyst: VA

Percent Moisture	10	0.2	0.1	*	wt%	1	9/19/2018
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**Qualifiers:**

ND - Not Detected at the Reporting Limit

RL/MDL - Reporting Limit / Method Detection Limit for the analysis

J - Analyte detected below reporting limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 29, 2018

**ANALYTICAL RESULTS**

Date Printed: September 29, 2018

**CLIENT:** Hydrodynamics Consultant, Inc.  
**Work Order:** 18090542 Revision 0  
**Project:** Westwood Cleaners, 8731 West North Ave., Wauwato  
**Lab ID:** 18090542-028

**Client Sample ID:** NSB10-A  
**Collection Date:** 9/16/2018 5:03:00 PM  
**Matrix:** SOIL

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		<b>Prep Date: 9/18/2018</b>		<b>Analyst: MJK</b>	
Acetone	0.10	0.072	0.0022		mg/Kg-dry	1	9/20/2018
Benzene	ND	0.0048	0.00019		mg/Kg-dry	1	9/20/2018
Bromodichloromethane	ND	0.0048	0.00039		mg/Kg-dry	1	9/20/2018
Bromoform	ND	0.0048	0.00039		mg/Kg-dry	1	9/20/2018
Bromomethane	ND	0.0096	0.00048		mg/Kg-dry	1	9/20/2018
2-Butanone	ND	0.072	0.0014		mg/Kg-dry	1	9/20/2018
Carbon disulfide	ND	0.048	0.00019		mg/Kg-dry	1	9/20/2018
Carbon tetrachloride	ND	0.0048	0.00029		mg/Kg-dry	1	9/20/2018
Chlorobenzene	ND	0.0048	0.00019		mg/Kg-dry	1	9/20/2018
Chloroethane	ND	0.0096	0.00039		mg/Kg-dry	1	9/20/2018
Chloroform	ND	0.0048	0.00019		mg/Kg-dry	1	9/20/2018
Chloromethane	ND	0.0096	0.00029		mg/Kg-dry	1	9/20/2018
Dibromochloromethane	ND	0.0048	0.00039		mg/Kg-dry	1	9/20/2018
1,1-Dichloroethane	ND	0.0048	0.00029		mg/Kg-dry	1	9/20/2018
1,2-Dichloroethane	ND	0.0048	0.00058		mg/Kg-dry	1	9/20/2018
1,1-Dichloroethene	ND	0.0048	0.00029		mg/Kg-dry	1	9/20/2018
cis-1,2-Dichloroethene	ND	0.0048	0.00029		mg/Kg-dry	1	9/20/2018
trans-1,2-Dichloroethene	ND	0.0048	0.00029		mg/Kg-dry	1	9/20/2018
1,2-Dichloropropane	ND	0.0048	0.00039		mg/Kg-dry	1	9/20/2018
cis-1,3-Dichloropropene	ND	0.0019	0.00019		mg/Kg-dry	1	9/20/2018
trans-1,3-Dichloropropene	ND	0.0019	0.00029		mg/Kg-dry	1	9/20/2018
Ethylbenzene	ND	0.0048	0.000096		mg/Kg-dry	1	9/20/2018
2-Hexanone	ND	0.019	0.00077		mg/Kg-dry	1	9/20/2018
4-Methyl-2-pentanone	ND	0.019	0.00029		mg/Kg-dry	1	9/20/2018
Methylene chloride	0.00092	0.0096	0.00077	J	mg/Kg-dry	1	9/20/2018
Methyl tert-butyl ether	ND	0.0048	0.00019		mg/Kg-dry	1	9/20/2018
Styrene	ND	0.0048	0.00019		mg/Kg-dry	1	9/20/2018
1,1,2,2-Tetrachloroethane	ND	0.0048	0.00019		mg/Kg-dry	1	9/20/2018
Tetrachloroethene	1.4	0.26	0.016		mg/Kg-dry	50	9/20/2018
Toluene	ND	0.0048	0.00019		mg/Kg-dry	1	9/20/2018
1,1,1-Trichloroethane	ND	0.0048	0.00019		mg/Kg-dry	1	9/20/2018
1,1,2-Trichloroethane	ND	0.0048	0.00048		mg/Kg-dry	1	9/20/2018
Trichloroethene	0.019	0.0048	0.00019		mg/Kg-dry	1	9/20/2018
Vinyl chloride	ND	0.0048	0.00039		mg/Kg-dry	1	9/20/2018
Xylenes, Total	ND	0.014	0.00039		mg/Kg-dry	1	9/20/2018
<b>Percent Moisture</b>		<b>D2974</b>		<b>Prep Date: 9/18/2018</b>		<b>Analyst: VA</b>	
Percent Moisture	17.3	0.2	0.1	*	wt%	1	9/19/2018

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below reporting limit  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL/MDL - Reporting Limit / Method Detection Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 29, 2018

Date Printed: September 29, 2018

**ANALYTICAL RESULTS**

CLIENT: Hydrodynamics Consultant, Inc.

Work Order: 18090542 Revision 0

Project: Westwood Cleaners, 8731 West North Ave., Wauwato

Lab ID: 18090542-029

Client Sample ID: NSB10-B

Collection Date: 9/16/2018 5:17:00 PM

Matrix: SOIL

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS****SW5035/8260B**

Prep Date: 9/18/2018

Analyst: MJK

Acetone	ND	0.068	0.0021		mg/Kg-dry	1	9/20/2018
Benzene	0.0018	0.0046	0.00018	J	mg/Kg-dry	1	9/20/2018
Bromodichloromethane	ND	0.0046	0.00036		mg/Kg-dry	1	9/20/2018
Bromoform	ND	0.0046	0.00036		mg/Kg-dry	1	9/20/2018
Bromomethane	ND	0.0091	0.00046		mg/Kg-dry	1	9/20/2018
2-Butanone	ND	0.068	0.0014		mg/Kg-dry	1	9/20/2018
Carbon disulfide	ND	0.046	0.00018		mg/Kg-dry	1	9/20/2018
Carbon tetrachloride	ND	0.0046	0.00027		mg/Kg-dry	1	9/20/2018
Chlorobenzene	ND	0.0046	0.00018		mg/Kg-dry	1	9/20/2018
Chloroethane	ND	0.0091	0.00036		mg/Kg-dry	1	9/20/2018
Chloroform	ND	0.0046	0.00018		mg/Kg-dry	1	9/20/2018
Chloromethane	ND	0.0091	0.00027		mg/Kg-dry	1	9/20/2018
Dibromochloromethane	ND	0.0046	0.00036		mg/Kg-dry	1	9/20/2018
1,1-Dichloroethane	ND	0.0046	0.00027		mg/Kg-dry	1	9/20/2018
1,2-Dichloroethane	ND	0.0046	0.00055		mg/Kg-dry	1	9/20/2018
1,1-Dichloroethene	ND	0.0046	0.00027		mg/Kg-dry	1	9/20/2018
cis-1,2-Dichloroethene	ND	0.0046	0.00027		mg/Kg-dry	1	9/20/2018
trans-1,2-Dichloroethene	ND	0.0046	0.00027		mg/Kg-dry	1	9/20/2018
1,2-Dichloropropane	ND	0.0046	0.00036		mg/Kg-dry	1	9/20/2018
cis-1,3-Dichloropropene	ND	0.0018	0.00018		mg/Kg-dry	1	9/20/2018
trans-1,3-Dichloropropene	ND	0.0018	0.00027		mg/Kg-dry	1	9/20/2018
Ethylbenzene	ND	0.0046	0.000091		mg/Kg-dry	1	9/20/2018
2-Hexanone	ND	0.018	0.00073		mg/Kg-dry	1	9/20/2018
4-Methyl-2-pentanone	ND	0.018	0.00027		mg/Kg-dry	1	9/20/2018
Methylene chloride	ND	0.0091	0.00073		mg/Kg-dry	1	9/20/2018
Methyl tert-butyl ether	ND	0.0046	0.00018		mg/Kg-dry	1	9/20/2018
Styrene	ND	0.0046	0.00018		mg/Kg-dry	1	9/20/2018
1,1,2,2-Tetrachloroethane	ND	0.0046	0.00018		mg/Kg-dry	1	9/20/2018
Tetrachloroethene	0.16	0.0046	0.00027		mg/Kg-dry	1	9/20/2018
Toluene	0.0031	0.0046	0.00018	J	mg/Kg-dry	1	9/20/2018
1,1,1-Trichloroethane	ND	0.0046	0.00018		mg/Kg-dry	1	9/20/2018
1,1,2-Trichloroethane	ND	0.0046	0.00046		mg/Kg-dry	1	9/20/2018
Trichloroethene	0.013	0.0046	0.00018		mg/Kg-dry	1	9/20/2018
Vinyl chloride	ND	0.0046	0.00036		mg/Kg-dry	1	9/20/2018
Xylenes, Total	0.0013	0.014	0.00036	J	mg/Kg-dry	1	9/20/2018

**Percent Moisture****D2974**

Prep Date: 9/18/2018

Analyst: VA

Percent Moisture	16.5	0.2	0.1	*	wt%	1	9/19/2018
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**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below reporting limit

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL/MDL - Reporting Limit / Method Detection Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 29, 2018

**ANALYTICAL RESULTS**

Date Printed: September 29, 2018

**CLIENT:** Hydrodynamics Consultant, Inc.  
**Work Order:** 18090542 Revision 0  
**Project:** Westwood Cleaners, 8731 West North Ave., Wauwato  
**Lab ID:** 18090542-030

**Client Sample ID:** NSB10-C  
**Collection Date:** 9/16/2018 5:33:00 PM  
**Matrix:** SOIL

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		<b>Prep Date: 9/18/2018</b>		<b>Analyst: MJK</b>	
Acetone	ND	0.065	0.002		mg/Kg-dry	1	9/20/2018
Benzene	ND	0.0043	0.00017		mg/Kg-dry	1	9/20/2018
Bromodichloromethane	ND	0.0043	0.00035		mg/Kg-dry	1	9/20/2018
Bromoform	ND	0.0043	0.00035		mg/Kg-dry	1	9/20/2018
Bromomethane	ND	0.0087	0.00043		mg/Kg-dry	1	9/20/2018
2-Butanone	ND	0.065	0.0013		mg/Kg-dry	1	9/20/2018
Carbon disulfide	ND	0.043	0.00017		mg/Kg-dry	1	9/20/2018
Carbon tetrachloride	ND	0.0043	0.00026		mg/Kg-dry	1	9/20/2018
Chlorobenzene	ND	0.0043	0.00017		mg/Kg-dry	1	9/20/2018
Chloroethane	ND	0.0087	0.00035		mg/Kg-dry	1	9/20/2018
Chloroform	ND	0.0043	0.00017		mg/Kg-dry	1	9/20/2018
Chloromethane	ND	0.0087	0.00026		mg/Kg-dry	1	9/20/2018
Dibromochloromethane	ND	0.0043	0.00035		mg/Kg-dry	1	9/20/2018
1,1-Dichloroethane	ND	0.0043	0.00026		mg/Kg-dry	1	9/20/2018
1,2-Dichloroethane	ND	0.0043	0.00052		mg/Kg-dry	1	9/20/2018
1,1-Dichloroethene	ND	0.0043	0.00026		mg/Kg-dry	1	9/20/2018
cis-1,2-Dichloroethene	ND	0.0043	0.00026		mg/Kg-dry	1	9/20/2018
trans-1,2-Dichloroethene	ND	0.0043	0.00026		mg/Kg-dry	1	9/20/2018
1,2-Dichloropropane	ND	0.0043	0.00035		mg/Kg-dry	1	9/20/2018
cis-1,3-Dichloropropene	ND	0.0017	0.00017		mg/Kg-dry	1	9/20/2018
trans-1,3-Dichloropropene	ND	0.0017	0.00026		mg/Kg-dry	1	9/20/2018
Ethylbenzene	ND	0.0043	0.000087		mg/Kg-dry	1	9/20/2018
2-Hexanone	ND	0.017	0.00069		mg/Kg-dry	1	9/20/2018
4-Methyl-2-pentanone	ND	0.017	0.00026		mg/Kg-dry	1	9/20/2018
Methylene chloride	ND	0.0087	0.00069		mg/Kg-dry	1	9/20/2018
Methyl tert-butyl ether	ND	0.0043	0.00017		mg/Kg-dry	1	9/20/2018
Styrene	ND	0.0043	0.00017		mg/Kg-dry	1	9/20/2018
1,1,2,2-Tetrachloroethane	ND	0.0043	0.00017		mg/Kg-dry	1	9/20/2018
Tetrachloroethene	ND	0.0043	0.00026		mg/Kg-dry	1	9/20/2018
Toluene	ND	0.0043	0.00017		mg/Kg-dry	1	9/20/2018
1,1,1-Trichloroethane	ND	0.0043	0.00017		mg/Kg-dry	1	9/20/2018
1,1,2-Trichloroethane	ND	0.0043	0.00043		mg/Kg-dry	1	9/20/2018
Trichloroethene	ND	0.0043	0.00017		mg/Kg-dry	1	9/20/2018
Vinyl chloride	ND	0.0043	0.00035		mg/Kg-dry	1	9/20/2018
Xylenes, Total	ND	0.013	0.00035		mg/Kg-dry	1	9/20/2018
<b>Percent Moisture</b>		<b>D2974</b>		<b>Prep Date: 9/18/2018</b>		<b>Analyst: VA</b>	
Percent Moisture	7.9	0.2	0.1	*	wt%	1	9/19/2018

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below reporting limit  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL/MDL - Reporting Limit / Method Detection Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 29, 2018

Date Printed: September 29, 2018

**ANALYTICAL RESULTS**

CLIENT: Hydrodynamics Consultant, Inc.

Work Order: 18090542 Revision 0

Project: Westwood Cleaners, 8731 West North Ave., Wauwato

Lab ID: 18090542-031

Client Sample ID: NSB11-A

Collection Date: 9/16/2018 5:50:00 PM

Matrix: SOIL

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS****SW5035/8260B**

Prep Date: 9/18/2018

Analyst: MJK

Acetone	ND	0.073	0.0022		mg/Kg-dry	1	9/20/2018
Benzene	0.0020	0.0048	0.00019	J	mg/Kg-dry	1	9/20/2018
Bromodichloromethane	ND	0.0048	0.00039		mg/Kg-dry	1	9/20/2018
Bromoform	ND	0.0048	0.00039		mg/Kg-dry	1	9/20/2018
Bromomethane	ND	0.0097	0.00048		mg/Kg-dry	1	9/20/2018
2-Butanone	ND	0.073	0.0015		mg/Kg-dry	1	9/20/2018
Carbon disulfide	ND	0.048	0.00019		mg/Kg-dry	1	9/20/2018
Carbon tetrachloride	ND	0.0048	0.00029		mg/Kg-dry	1	9/20/2018
Chlorobenzene	ND	0.0048	0.00019		mg/Kg-dry	1	9/20/2018
Chloroethane	ND	0.0097	0.00039		mg/Kg-dry	1	9/20/2018
Chloroform	ND	0.0048	0.00019		mg/Kg-dry	1	9/20/2018
Chloromethane	ND	0.0097	0.00029		mg/Kg-dry	1	9/20/2018
Dibromochloromethane	ND	0.0048	0.00039		mg/Kg-dry	1	9/20/2018
1,1-Dichloroethane	ND	0.0048	0.00029		mg/Kg-dry	1	9/20/2018
1,2-Dichloroethane	ND	0.0048	0.00058		mg/Kg-dry	1	9/20/2018
1,1-Dichloroethene	ND	0.0048	0.00029		mg/Kg-dry	1	9/20/2018
cis-1,2-Dichloroethene	ND	0.0048	0.00029		mg/Kg-dry	1	9/20/2018
trans-1,2-Dichloroethene	ND	0.0048	0.00029		mg/Kg-dry	1	9/20/2018
1,2-Dichloropropane	ND	0.0048	0.00039		mg/Kg-dry	1	9/20/2018
cis-1,3-Dichloropropene	ND	0.0019	0.00019		mg/Kg-dry	1	9/20/2018
trans-1,3-Dichloropropene	ND	0.0019	0.00029		mg/Kg-dry	1	9/20/2018
Ethylbenzene	ND	0.0048	0.000097		mg/Kg-dry	1	9/20/2018
2-Hexanone	ND	0.019	0.00077		mg/Kg-dry	1	9/20/2018
4-Methyl-2-pentanone	ND	0.019	0.00029		mg/Kg-dry	1	9/20/2018
Methylene chloride	ND	0.0097	0.00077		mg/Kg-dry	1	9/20/2018
Methyl tert-butyl ether	ND	0.0048	0.00019		mg/Kg-dry	1	9/20/2018
Styrene	ND	0.0048	0.00019		mg/Kg-dry	1	9/20/2018
1,1,2,2-Tetrachloroethane	ND	0.0048	0.00019		mg/Kg-dry	1	9/20/2018
Tetrachloroethene	0.067	0.0048	0.00029		mg/Kg-dry	1	9/20/2018
Toluene	0.0035	0.0048	0.00019	J	mg/Kg-dry	1	9/20/2018
1,1,1-Trichloroethane	ND	0.0048	0.00019		mg/Kg-dry	1	9/20/2018
1,1,2-Trichloroethane	ND	0.0048	0.00048		mg/Kg-dry	1	9/20/2018
Trichloroethene	ND	0.0048	0.00019		mg/Kg-dry	1	9/20/2018
Vinyl chloride	ND	0.0048	0.00039		mg/Kg-dry	1	9/20/2018
Xylenes, Total	0.0016	0.015	0.00039	J	mg/Kg-dry	1	9/20/2018

**Percent Moisture****D2974**

Prep Date: 9/18/2018

Analyst: VA

Percent Moisture	14.6	0.2	0.1	*	wt%	1	9/19/2018
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**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below reporting limit

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL/MDL - Reporting Limit / Method Detection Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 29, 2018

**ANALYTICAL RESULTS**

Date Printed: September 29, 2018

**CLIENT:** Hydrodynamics Consultant, Inc.  
**Work Order:** 18090542 Revision 0  
**Project:** Westwood Cleaners, 8731 West North Ave., Wauwato  
**Lab ID:** 18090542-032

**Client Sample ID:** NSB11-B  
**Collection Date:** 9/16/2018 6:06:00 PM  
**Matrix:** SOIL

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS****SW5035/8260B**

Prep Date: 9/18/2018

Analyst: MJK

Acetone	ND	0.069	0.0021		mg/Kg-dry	1	9/20/2018
Benzene	0.0018	0.0046	0.00018	J	mg/Kg-dry	1	9/20/2018
Bromodichloromethane	ND	0.0046	0.00037		mg/Kg-dry	1	9/20/2018
Bromoform	ND	0.0046	0.00037		mg/Kg-dry	1	9/20/2018
Bromomethane	ND	0.0091	0.00046		mg/Kg-dry	1	9/20/2018
2-Butanone	ND	0.069	0.0014		mg/Kg-dry	1	9/20/2018
Carbon disulfide	ND	0.046	0.00018		mg/Kg-dry	1	9/20/2018
Carbon tetrachloride	ND	0.0046	0.00027		mg/Kg-dry	1	9/20/2018
Chlorobenzene	ND	0.0046	0.00018		mg/Kg-dry	1	9/20/2018
Chloroethane	ND	0.0091	0.00037		mg/Kg-dry	1	9/20/2018
Chloroform	ND	0.0046	0.00018		mg/Kg-dry	1	9/20/2018
Chloromethane	ND	0.0091	0.00027		mg/Kg-dry	1	9/20/2018
Dibromochloromethane	ND	0.0046	0.00037		mg/Kg-dry	1	9/20/2018
1,1-Dichloroethane	ND	0.0046	0.00027		mg/Kg-dry	1	9/20/2018
1,2-Dichloroethane	ND	0.0046	0.00055		mg/Kg-dry	1	9/20/2018
1,1-Dichloroethene	ND	0.0046	0.00027		mg/Kg-dry	1	9/20/2018
cis-1,2-Dichloroethene	ND	0.0046	0.00027		mg/Kg-dry	1	9/20/2018
trans-1,2-Dichloroethene	ND	0.0046	0.00027		mg/Kg-dry	1	9/20/2018
1,2-Dichloropropane	ND	0.0046	0.00037		mg/Kg-dry	1	9/20/2018
cis-1,3-Dichloropropene	ND	0.0018	0.00018		mg/Kg-dry	1	9/20/2018
trans-1,3-Dichloropropene	ND	0.0018	0.00027		mg/Kg-dry	1	9/20/2018
Ethylbenzene	0.00084	0.0046	0.000091	J	mg/Kg-dry	1	9/20/2018
2-Hexanone	ND	0.018	0.00073		mg/Kg-dry	1	9/20/2018
4-Methyl-2-pentanone	ND	0.018	0.00027		mg/Kg-dry	1	9/20/2018
Methylene chloride	ND	0.0091	0.00073		mg/Kg-dry	1	9/20/2018
Methyl tert-butyl ether	ND	0.0046	0.00018		mg/Kg-dry	1	9/20/2018
Styrene	ND	0.0046	0.00018		mg/Kg-dry	1	9/20/2018
1,1,2,2-Tetrachloroethane	ND	0.0046	0.00018		mg/Kg-dry	1	9/20/2018
Tetrachloroethene	0.22	0.0046	0.00027		mg/Kg-dry	1	9/20/2018
Toluene	0.0029	0.0046	0.00018	J	mg/Kg-dry	1	9/20/2018
1,1,1-Trichloroethane	ND	0.0046	0.00018		mg/Kg-dry	1	9/20/2018
1,1,2-Trichloroethane	ND	0.0046	0.00046		mg/Kg-dry	1	9/20/2018
Trichloroethene	ND	0.0046	0.00018		mg/Kg-dry	1	9/20/2018
Vinyl chloride	ND	0.0046	0.00037		mg/Kg-dry	1	9/20/2018
Xylenes, Total	ND	0.014	0.00037		mg/Kg-dry	1	9/20/2018

**Percent Moisture****D2974**

Prep Date: 9/18/2018

Analyst: VA

Percent Moisture	17.2	0.2	0.1	*	wt%	1	9/19/2018
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**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below reporting limit

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL/MDL - Reporting Limit / Method Detection Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 29, 2018

**ANALYTICAL RESULTS**

Date Printed: September 29, 2018

**CLIENT:** Hydrodynamics Consultant, Inc.  
**Work Order:** 18090542 Revision 0  
**Project:** Westwood Cleaners, 8731 West North Ave., Wauwato  
**Lab ID:** 18090542-033

**Client Sample ID:** NSB11-C  
**Collection Date:** 9/16/2018 6:21:00 PM  
**Matrix:** SOIL

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: <b>9/18/2018</b>		Analyst: <b>MJK</b>	
Acetone	ND	0.074	0.0023		mg/Kg-dry	1	9/20/2018
Benzene	0.0018	0.0049	0.0002	J	mg/Kg-dry	1	9/20/2018
Bromodichloromethane	ND	0.0049	0.00039		mg/Kg-dry	1	9/20/2018
Bromoform	ND	0.0049	0.00039		mg/Kg-dry	1	9/20/2018
Bromomethane	ND	0.0098	0.00049		mg/Kg-dry	1	9/20/2018
2-Butanone	ND	0.074	0.0015		mg/Kg-dry	1	9/20/2018
Carbon disulfide	0.0011	0.049	0.0002	J	mg/Kg-dry	1	9/20/2018
Carbon tetrachloride	ND	0.0049	0.00029		mg/Kg-dry	1	9/20/2018
Chlorobenzene	ND	0.0049	0.0002		mg/Kg-dry	1	9/20/2018
Chloroethane	ND	0.0098	0.00039		mg/Kg-dry	1	9/20/2018
Chloroform	ND	0.0049	0.0002		mg/Kg-dry	1	9/20/2018
Chloromethane	ND	0.0098	0.00029		mg/Kg-dry	1	9/20/2018
Dibromochloromethane	ND	0.0049	0.00039		mg/Kg-dry	1	9/20/2018
1,1-Dichloroethane	ND	0.0049	0.00029		mg/Kg-dry	1	9/20/2018
1,2-Dichloroethane	ND	0.0049	0.00059		mg/Kg-dry	1	9/20/2018
1,1-Dichloroethene	ND	0.0049	0.00029		mg/Kg-dry	1	9/20/2018
cis-1,2-Dichloroethene	ND	0.0049	0.00029		mg/Kg-dry	1	9/20/2018
trans-1,2-Dichloroethene	ND	0.0049	0.00029		mg/Kg-dry	1	9/20/2018
1,2-Dichloropropane	ND	0.0049	0.00039		mg/Kg-dry	1	9/20/2018
cis-1,3-Dichloropropene	ND	0.0020	0.0002		mg/Kg-dry	1	9/20/2018
trans-1,3-Dichloropropene	ND	0.0020	0.00029		mg/Kg-dry	1	9/20/2018
Ethylbenzene	0.00053	0.0049	0.000098	J	mg/Kg-dry	1	9/20/2018
2-Hexanone	ND	0.020	0.00078		mg/Kg-dry	1	9/20/2018
4-Methyl-2-pentanone	ND	0.020	0.00029		mg/Kg-dry	1	9/20/2018
Methylene chloride	0.0016	0.0098	0.00078	J	mg/Kg-dry	1	9/20/2018
Methyl tert-butyl ether	ND	0.0049	0.0002		mg/Kg-dry	1	9/20/2018
Styrene	ND	0.0049	0.0002		mg/Kg-dry	1	9/20/2018
1,1,2,2-Tetrachloroethane	ND	0.0049	0.0002		mg/Kg-dry	1	9/20/2018
Tetrachloroethene	ND	0.0049	0.00029		mg/Kg-dry	1	9/20/2018
Toluene	0.0025	0.0049	0.0002	J	mg/Kg-dry	1	9/20/2018
1,1,1-Trichloroethane	ND	0.0049	0.0002		mg/Kg-dry	1	9/20/2018
1,1,2-Trichloroethane	ND	0.0049	0.00049		mg/Kg-dry	1	9/20/2018
Trichloroethene	ND	0.0049	0.0002		mg/Kg-dry	1	9/20/2018
Vinyl chloride	ND	0.0049	0.00039		mg/Kg-dry	1	9/20/2018
Xylenes, Total	ND	0.015	0.00039		mg/Kg-dry	1	9/20/2018
<b>Percent Moisture</b>		<b>D2974</b>		Prep Date: <b>9/18/2018</b>		Analyst: <b>VA</b>	
Percent Moisture	9.0	0.2	0.1	*	wt%	1	9/19/2018

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below reporting limit  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL/MDL - Reporting Limit / Method Detection Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded



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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: September 29, 2018

**ANALYTICAL RESULTS**

Date Printed: September 29, 2018

**CLIENT:** Hydrodynamics Consultant, Inc.  
**Work Order:** 18090542 Revision 0  
**Project:** Westwood Cleaners, 8731 West North Ave., Wauwato  
**Lab ID:** 18090542-034

**Client Sample ID:** NSB12-A  
**Collection Date:** 9/16/2018 6:38:00 PM  
**Matrix:** SOIL

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: <b>9/18/2018</b>		Analyst: <b>MJK</b>	
Acetone	ND	0.062	0.0019		mg/Kg-dry	1	9/20/2018
Benzene	0.0013	0.0042	0.00017	J	mg/Kg-dry	1	9/20/2018
Bromodichloromethane	ND	0.0042	0.00033		mg/Kg-dry	1	9/20/2018
Bromoform	ND	0.0042	0.00033		mg/Kg-dry	1	9/20/2018
Bromomethane	ND	0.0083	0.00042		mg/Kg-dry	1	9/20/2018
2-Butanone	ND	0.062	0.0012		mg/Kg-dry	1	9/20/2018
Carbon disulfide	0.00046	0.042	0.00017	J	mg/Kg-dry	1	9/20/2018
Carbon tetrachloride	ND	0.0042	0.00025		mg/Kg-dry	1	9/20/2018
Chlorobenzene	ND	0.0042	0.00017		mg/Kg-dry	1	9/20/2018
Chloroethane	ND	0.0083	0.00033		mg/Kg-dry	1	9/20/2018
Chloroform	ND	0.0042	0.00017		mg/Kg-dry	1	9/20/2018
Chloromethane	ND	0.0083	0.00025		mg/Kg-dry	1	9/20/2018
Dibromochloromethane	ND	0.0042	0.00033		mg/Kg-dry	1	9/20/2018
1,1-Dichloroethane	ND	0.0042	0.00025		mg/Kg-dry	1	9/20/2018
1,2-Dichloroethane	ND	0.0042	0.0005		mg/Kg-dry	1	9/20/2018
1,1-Dichloroethene	ND	0.0042	0.00025		mg/Kg-dry	1	9/20/2018
cis-1,2-Dichloroethene	ND	0.0042	0.00025		mg/Kg-dry	1	9/20/2018
trans-1,2-Dichloroethene	ND	0.0042	0.00025		mg/Kg-dry	1	9/20/2018
1,2-Dichloropropane	ND	0.0042	0.00033		mg/Kg-dry	1	9/20/2018
cis-1,3-Dichloropropene	ND	0.0017	0.00017		mg/Kg-dry	1	9/20/2018
trans-1,3-Dichloropropene	ND	0.0017	0.00025		mg/Kg-dry	1	9/20/2018
Ethylbenzene	ND	0.0042	0.000083		mg/Kg-dry	1	9/20/2018
2-Hexanone	ND	0.017	0.00066		mg/Kg-dry	1	9/20/2018
4-Methyl-2-pentanone	ND	0.017	0.00025		mg/Kg-dry	1	9/20/2018
Methylene chloride	ND	0.0083	0.00066		mg/Kg-dry	1	9/20/2018
Methyl tert-butyl ether	ND	0.0042	0.00017		mg/Kg-dry	1	9/20/2018
Styrene	ND	0.0042	0.00017		mg/Kg-dry	1	9/20/2018
1,1,2,2-Tetrachloroethane	ND	0.0042	0.00017		mg/Kg-dry	1	9/20/2018
Tetrachloroethene	ND	0.0042	0.00025		mg/Kg-dry	1	9/20/2018
Toluene	0.0021	0.0042	0.00017	J	mg/Kg-dry	1	9/20/2018
1,1,1-Trichloroethane	ND	0.0042	0.00017		mg/Kg-dry	1	9/20/2018
1,1,2-Trichloroethane	ND	0.0042	0.00042		mg/Kg-dry	1	9/20/2018
Trichloroethene	ND	0.0042	0.00017		mg/Kg-dry	1	9/20/2018
Vinyl chloride	ND	0.0042	0.00033		mg/Kg-dry	1	9/20/2018
Xylenes, Total	0.00090	0.012	0.00033	J	mg/Kg-dry	1	9/20/2018
<b>Percent Moisture</b>		<b>D2974</b>		Prep Date: <b>9/18/2018</b>		Analyst: <b>VA</b>	
Percent Moisture	15.7	0.2	0.1	*	wt%	1	9/19/2018

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below reporting limit  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL/MDL - Reporting Limit / Method Detection Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Date Reported: September 29, 2018

**ANALYTICAL RESULTS**

Date Printed: September 29, 2018

**CLIENT:** Hydrodynamics Consultant, Inc.  
**Work Order:** 18090542 Revision 0  
**Project:** Westwood Cleaners, 8731 West North Ave., Wauwato  
**Lab ID:** 18090542-035

**Client Sample ID:** NSB12-B  
**Collection Date:** 9/16/2018 6:53:00 PM  
**Matrix:** SOIL

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS****SW5035/8260B**

Prep Date: 9/18/2018

Analyst: MJK

Acetone	ND	0.070	0.0022		mg/Kg-dry	1	9/20/2018
Benzene	0.0032	0.0047	0.00019	J	mg/Kg-dry	1	9/20/2018
Bromodichloromethane	ND	0.0047	0.00037		mg/Kg-dry	1	9/20/2018
Bromoform	ND	0.0047	0.00037		mg/Kg-dry	1	9/20/2018
Bromomethane	ND	0.0094	0.00047		mg/Kg-dry	1	9/20/2018
2-Butanone	ND	0.070	0.0014		mg/Kg-dry	1	9/20/2018
Carbon disulfide	0.00077	0.047	0.00019	J	mg/Kg-dry	1	9/20/2018
Carbon tetrachloride	ND	0.0047	0.00028		mg/Kg-dry	1	9/20/2018
Chlorobenzene	ND	0.0047	0.00019		mg/Kg-dry	1	9/20/2018
Chloroethane	ND	0.0094	0.00037		mg/Kg-dry	1	9/20/2018
Chloroform	ND	0.0047	0.00019		mg/Kg-dry	1	9/20/2018
Chloromethane	ND	0.0094	0.00028		mg/Kg-dry	1	9/20/2018
Dibromochloromethane	ND	0.0047	0.00037		mg/Kg-dry	1	9/20/2018
1,1-Dichloroethane	ND	0.0047	0.00028		mg/Kg-dry	1	9/20/2018
1,2-Dichloroethane	ND	0.0047	0.00056		mg/Kg-dry	1	9/20/2018
1,1-Dichloroethene	ND	0.0047	0.00028		mg/Kg-dry	1	9/20/2018
cis-1,2-Dichloroethene	ND	0.0047	0.00028		mg/Kg-dry	1	9/20/2018
trans-1,2-Dichloroethene	ND	0.0047	0.00028		mg/Kg-dry	1	9/20/2018
1,2-Dichloropropane	ND	0.0047	0.00037		mg/Kg-dry	1	9/20/2018
cis-1,3-Dichloropropene	ND	0.0019	0.00019		mg/Kg-dry	1	9/20/2018
trans-1,3-Dichloropropene	ND	0.0019	0.00028		mg/Kg-dry	1	9/20/2018
Ethylbenzene	0.0020	0.0047	0.000094	J	mg/Kg-dry	1	9/20/2018
2-Hexanone	ND	0.019	0.00075		mg/Kg-dry	1	9/20/2018
4-Methyl-2-pentanone	ND	0.019	0.00028		mg/Kg-dry	1	9/20/2018
Methylene chloride	ND	0.0094	0.00075		mg/Kg-dry	1	9/20/2018
Methyl tert-butyl ether	ND	0.0047	0.00019		mg/Kg-dry	1	9/20/2018
Styrene	ND	0.0047	0.00019		mg/Kg-dry	1	9/20/2018
1,1,2,2-Tetrachloroethane	ND	0.0047	0.00019		mg/Kg-dry	1	9/20/2018
Tetrachloroethene	0.027	0.0047	0.00028		mg/Kg-dry	1	9/20/2018
Toluene	0.0064	0.0047	0.00019		mg/Kg-dry	1	9/20/2018
1,1,1-Trichloroethane	ND	0.0047	0.00019		mg/Kg-dry	1	9/20/2018
1,1,2-Trichloroethane	ND	0.0047	0.00047		mg/Kg-dry	1	9/20/2018
Trichloroethene	ND	0.0047	0.00019		mg/Kg-dry	1	9/20/2018
Vinyl chloride	ND	0.0047	0.00037		mg/Kg-dry	1	9/20/2018
Xylenes, Total	0.0041	0.014	0.00037	J	mg/Kg-dry	1	9/20/2018

**Percent Moisture****D2974**

Prep Date: 9/18/2018

Analyst: VA

Percent Moisture	18.5	0.2	0.1	*	wt%	1	9/19/2018
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**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below reporting limit

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL/MDL - Reporting Limit / Method Detection Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Date Reported: September 29, 2018

**ANALYTICAL RESULTS**

Date Printed: September 29, 2018

**CLIENT:** Hydrodynamics Consultant, Inc.  
**Work Order:** 18090542 Revision 0  
**Project:** Westwood Cleaners, 8731 West North Ave., Wauwato  
**Lab ID:** 18090542-036

**Client Sample ID:** NSB12-C  
**Collection Date:** 9/16/2018 7:10:00 PM  
**Matrix:** SOIL

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		<b>Prep Date: 9/18/2018</b>		<b>Analyst: MJK</b>	
Acetone	0.013	0.056	0.0017	J	mg/Kg-dry	1	9/20/2018
Benzene	ND	0.0037	0.00015		mg/Kg-dry	1	9/20/2018
Bromodichloromethane	ND	0.0037	0.0003		mg/Kg-dry	1	9/20/2018
Bromoform	ND	0.0037	0.0003		mg/Kg-dry	1	9/20/2018
Bromomethane	ND	0.0074	0.00037		mg/Kg-dry	1	9/20/2018
2-Butanone	ND	0.056	0.0011		mg/Kg-dry	1	9/20/2018
Carbon disulfide	ND	0.037	0.00015		mg/Kg-dry	1	9/20/2018
Carbon tetrachloride	ND	0.0037	0.00022		mg/Kg-dry	1	9/20/2018
Chlorobenzene	ND	0.0037	0.00015		mg/Kg-dry	1	9/20/2018
Chloroethane	ND	0.0074	0.0003		mg/Kg-dry	1	9/20/2018
Chloroform	ND	0.0037	0.00015		mg/Kg-dry	1	9/20/2018
Chloromethane	ND	0.0074	0.00022		mg/Kg-dry	1	9/20/2018
Dibromochloromethane	ND	0.0037	0.0003		mg/Kg-dry	1	9/20/2018
1,1-Dichloroethane	ND	0.0037	0.00022		mg/Kg-dry	1	9/20/2018
1,2-Dichloroethane	ND	0.0037	0.00044		mg/Kg-dry	1	9/20/2018
1,1-Dichloroethene	ND	0.0037	0.00022		mg/Kg-dry	1	9/20/2018
cis-1,2-Dichloroethene	ND	0.0037	0.00022		mg/Kg-dry	1	9/20/2018
trans-1,2-Dichloroethene	ND	0.0037	0.00022		mg/Kg-dry	1	9/20/2018
1,2-Dichloropropane	ND	0.0037	0.0003		mg/Kg-dry	1	9/20/2018
cis-1,3-Dichloropropene	ND	0.0015	0.00015		mg/Kg-dry	1	9/20/2018
trans-1,3-Dichloropropene	ND	0.0015	0.00022		mg/Kg-dry	1	9/20/2018
Ethylbenzene	ND	0.0037	0.000074		mg/Kg-dry	1	9/20/2018
2-Hexanone	ND	0.015	0.00059		mg/Kg-dry	1	9/20/2018
4-Methyl-2-pentanone	ND	0.015	0.00022		mg/Kg-dry	1	9/20/2018
Methylene chloride	ND	0.0074	0.00059		mg/Kg-dry	1	9/20/2018
Methyl tert-butyl ether	ND	0.0037	0.00015		mg/Kg-dry	1	9/20/2018
Styrene	ND	0.0037	0.00015		mg/Kg-dry	1	9/20/2018
1,1,2,2-Tetrachloroethane	ND	0.0037	0.00015		mg/Kg-dry	1	9/20/2018
Tetrachloroethene	ND	0.0037	0.00022		mg/Kg-dry	1	9/20/2018
Toluene	ND	0.0037	0.00015		mg/Kg-dry	1	9/20/2018
1,1,1-Trichloroethane	ND	0.0037	0.00015		mg/Kg-dry	1	9/20/2018
1,1,2-Trichloroethane	ND	0.0037	0.00037		mg/Kg-dry	1	9/20/2018
Trichloroethene	ND	0.0037	0.00015		mg/Kg-dry	1	9/20/2018
Vinyl chloride	ND	0.0037	0.0003		mg/Kg-dry	1	9/20/2018
Xylenes, Total	ND	0.011	0.0003		mg/Kg-dry	1	9/20/2018
<b>Percent Moisture</b>		<b>D2974</b>		<b>Prep Date: 9/18/2018</b>		<b>Analyst: VA</b>	
Percent Moisture	8.8	0.2	0.1	*	wt%	1	9/19/2018

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below reporting limit

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL/MDL - Reporting Limit / Method Detection Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

# STAT Analysis Corporation

2201 West Campbell Park Drive, Chicago, Illinois 60612-3547 Phone: (312) 733-0551 Fax: (312) 733-2386  
 e-mail address: [STATinfo@STATAnalysis.com](mailto:STATinfo@STATAnalysis.com) A I H A accredited 10248, N I L A P accredited 101202-0

## CHAIN OF CUSTODY RECORD

Company: Hydrodynamics Consultant, Inc.		P.O. No.:							
Project Number: Client Tracking No.:		Quote No.:							
Project Name: Westwood Cleaners									
Location/Address: 8731 West North Ave., Wauwatosa, WI 53226									
Sampler(s): Yinong Han									
Report To: Yong Yu		Turn Around:							
QC Level: 1 2 3 4		Phone: (630) 724-0098							
		Fax: (800) 881-2051							
Regulatory Program: NPEDS/MWRD RCRA SDWA SRP TACO Other:									
Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	Remarks	Lab No.:
NSB1-A	9/16/18	9:38	S			Yes	4		001
NSB1-B	9/16/18	9:53	S			Yes	4		002
NSB1-C	9/16/18	10:09	S			Yes	4		003
NSB2-A	9/16/18	10:26	S			Yes	4		004
NSB2-B	9/16/18	10:43	S			Yes	4		005
NSB2-C	9/16/18	10:59	S			Yes	4		006
NSB3-A	9/16/18	11:15	S			Yes	4		007
NSB3-B	9/16/18	11:31	S			Yes	4		008
NSB3-C	9/16/18	11:47	S			Yes	4		009
NSB4-A	9/16/18	12:05	S			Yes	4	X	010
NSB4-B	9/16/18	12:21	S			Yes	4	X	011
NSB4-C	9/16/18	12:38	S			Yes	4		012
NSB5-A	9/16/18	12:55	S			Yes	4		013
NSB5-B	9/16/18	13:10	S			Yes	4		014
NSB5-C	9/16/18	13:26	S			Yes	4		015
NSB6-A	9/16/18	13:45	S			Yes	4		016
NSB6-B	9/16/18	14:01	S			Yes	4		017
NSB6-C	9/16/18	14:18	S			Yes	4		018
TOCS									
Results Needed:									
am pm									
Laboratory Use:									
- Container OK									
- Samples Leaking									
- Refrigerated (Temp: 3.6°C)									
- Sample Labels Match Sample ID									
Sample Verification:									
Yes No									
Yes No									
Yes No									
Yes No									
Work Order No: 18090542									
Preservation Code:									
A = None B = HNO C = NaOH									
D = H <sub>2</sub> SO <sub>4</sub> E = HCl F = 5035/EnCore									

Relinquished By: (Signature) *[Signature]* Date/Time: 9/17/18 12:28  
 Received By: (Signature) *[Signature]* Date/Time: 9/17/18 12:28  
 Relinquished By: (Signature) *[Signature]* Date/Time: 9/17/18 16:28  
 Received By: (Signature) *[Signature]* Date/Time: 9/17/18 16:28  
 Relinquished By: (Signature) *[Signature]* Date/Time: 9/17/18 16:28

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## CHAIN OF CUSTODY RECORD

Page: 2 of 2

No: \_\_\_\_\_

Company: Hydrodynamics Consultant, Inc.		P.O. No.:									
Project Number: _____		Quote No.:									
Project Name: Westwood Cleaners											
Location/Address: 8731 West North Ave., Wauwatosa, WI 53226											
Sampler(s): Yinong Han											
Report To: Yong Yu		Turn Around:									
Phone: (630) 724-0098											
QC Level: 1 2 3 4		Results Needed:									
Fax: (800) 881-2051											
Regulatory Program: NPEDS/MWRD RCRA SDWA SRP TACO Other:											
Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	Remarks	Lab No.:	am pm	
NSB7-A	9/16/18	14:35	S			Yes	4		019		
NSB7-B	9/16/18	14:50	S			Yes	4		020		
NSB7-C	9/16/18	15:06	S			Yes	4		021		
NSB8-A	9/16/18	15:25	S			Yes	4		022		
NSB8-B	9/16/18	15:40	S			Yes	4		023		
NSB8-C	9/16/18	15:56	S			Yes	4		024		
NSB9-A	9/16/18	16:15	S			Yes	4		025		
NSB9-B	9/16/18	16:30	S			Yes	4		026		
NSB9-C	9/16/18	16:46	S			Yes	4		027		
NSB10-A	9/16/18	17:03	S			Yes	4		028		
NSB10-B	9/16/18	17:17	S			Yes	4		029		
NSB10-C	9/16/18	17:33	S			Yes	4		030		
NSB11-A	9/16/18	17:50	S			Yes	4		031		
NSB11-B	9/16/18	18:06	S			Yes	4		032		
NSB11-C	9/16/18	18:21	S			Yes	4		033		
NSB12-A	9/16/18	18:38	S			Yes	4		034		
NSB12-B	9/16/18	18:53	S			Yes	4		035		
NSB12-C	9/16/18	19:10	S			Yes	4		036		
VOCs											
Laboratory Use:											
- Container OK <input checked="" type="checkbox"/>											
- Samples Leaking <input type="checkbox"/>											
- Refrigerated (Temp: 3.6 °C) <input checked="" type="checkbox"/>											
- Sample Labels Match Sample ID <input checked="" type="checkbox"/>											
Sample Verification:											
Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
Yes <input type="checkbox"/> No <input type="checkbox"/>											
Yes <input type="checkbox"/> No <input type="checkbox"/>											
Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
Relinquished By: (Signature) _____		Date/Time: 9/17/18 12:28									
Received By: (Signature) _____		Date/Time: 9/17/18 12:28									
Relinquished By: (Signature) _____		Date/Time: 9/17/18 16:28									
Received By: (Signature) _____		Date/Time: 9/17/18 16:28									
Relinquished By: (Signature) _____		Date/Time: _____									
Received By: (Signature) _____		Date/Time: _____									

Work Order No: 18090542  
 Preservation Code:  
 A = None B = HNO C = NaOH  
 D = H<sub>2</sub>SO<sub>4</sub> E = HCl F = 5035/EnCore

**Sample Receipt Checklist**

Client Name HYDRODYNAMICS

Date and Time Received: 9/17/2018 4:28:00 PM

Work Order Number 18090542

Received by: EAA

Checklist completed by: CEM 9/17/18  
Signature Date

Reviewed by: Bm 9/17/18  
Initials Date

Matrix: Carrier name STAT Analysis

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels/containers? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Container or Temp Blank temperature in compliance? Yes  No  Temperature 3.6 °C
- Water - VOA vials have zero headspace? No VOA vials submitted  Yes  No
- Water - Samples pH checked? Yes  No  Checked by: \_\_\_\_\_
- Water - Samples properly preserved? Yes  No  pH Adjusted? \_\_\_\_\_

Any No response must be detailed in the comments section below.

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Comments: \_\_\_\_\_

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Client / Person contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Response: \_\_\_\_\_

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**STAT** Analysis Corporation

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

September 29, 2018

Hydrodynamics Consultant, Inc.  
5403 Patton Drive  
Lisle, IL 60532

Telephone: (630) 724-0098  
Fax: (800) 881-2051

Analytical Report for STAT Work Order: 18090548 Revision 0

RE: Westwood Cleaners, 8731 West North Avenue, Wauwatosa, WI 53226

Dear Dr. Yong Yu:

STAT Analysis received 2 samples for the referenced project on 9/17/2018 4:28:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAP standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Craig Chawla  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

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**Client:** Hydrodynamics Consultant, Inc.

**Project:** Westwood Cleaners, 8731 West North Avenue, Wauwat

**Work Order Sample Summary**

**Work Order:** 18090548 Revision 0

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<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
18090548-001A	SV3		9/16/2018 2:00:00 PM	9/17/2018
18090548-002A	SV3-D		9/16/2018 3:10:00 PM	9/17/2018



---

**CLIENT:** Hydrodynamics Consultant, Inc.  
**Project:** Westwood Cleaners, 8731 West North Avenue, Wauwatosa,  
**Work Order:** 18090548 Revision 0

---

**CASE NARRATIVE**

TO-15 results that are reported in mg/m<sup>3</sup> are calculated based on a temperature of 25°C, atmospheric pressure of 760 mm Hg, and the molecular weight of the analyte.

The TO-15 Continuing Calibration Verification (CCV) had recovery outside of control limits for the following elements:

Dichlorodifluoromethane: 56.5% recovery (QC Limits 70-130%)

Trichlorofluoromethane: 50.4% recovery (QC Limits 70-130%)

The TO-15 Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) had recoveries of the following compounds outside of control limits:

Dichlorodifluoromethane: 52.4%/51.0% (LCS/LCSD) recovery (QC limits 70-130%)

Trichlorofluoromethane: 58.0%/60.4% (LCS/LCSD) recovery (QC limits 70-130%)

**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Report Date: September 29, 2018

Print Date: September 29, 2018

**ANALYTICAL RESULTS**

CLIENT: Hydrodynamics Consultant, Inc.

Client Sample ID: SV3

Work Order: 18090548 Revision 0

Tag Number:

Project: Westwood Cleaners, 8731 West North Aveue, Wauwatos

Collection Date: 9/16/2018 2:00:00 PM

Lab ID: 18090548-001A

Matrix: AIR

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
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Volatile Organic Compounds in Air by GC/MS	TO-15	Prep Date: 9/18/2018			Analyst: AOA		
1,1,1-Trichloroethane	ND	0.0039	0.00021		mg/m <sup>3</sup>	2	9/20/2018
1,1,2-Trichloroethane	ND	0.0039	0.00038		mg/m <sup>3</sup>	2	9/20/2018
1,1-Dichloroethane	ND	0.0029	0.00014		mg/m <sup>3</sup>	2	9/20/2018
1,1-Dichloroethene	ND	0.0029	0.00018		mg/m <sup>3</sup>	2	9/20/2018
1,2,4-Trichlorobenzene	ND	0.0054	0.0012		mg/m <sup>3</sup>	2	9/20/2018
1,2-Dibromoethane	ND	0.0054	0.00062		mg/m <sup>3</sup>	2	9/20/2018
1,2-Dichlorobenzene	ND	0.0043	0.00036		mg/m <sup>3</sup>	2	9/20/2018
1,2-Dichloroethane	ND	0.0029	0.00033		mg/m <sup>3</sup>	2	9/20/2018
1,2-Dichloropropane	ND	0.0032	0.00023		mg/m <sup>3</sup>	2	9/20/2018
1,4-Dichlorobenzene	ND	0.0043	0.00046		mg/m <sup>3</sup>	2	9/20/2018
1,4-Dioxane	ND	0.0065	0.00075		mg/m <sup>3</sup>	2	9/20/2018
2-Butanone	ND	0.0054	0.00048		mg/m <sup>3</sup>	2	9/20/2018
Acetone	0.034	0.017	0.0006	*	mg/m <sup>3</sup>	2	9/20/2018
Benzene	0.0025	0.0022	0.00016		mg/m <sup>3</sup>	2	9/20/2018
Bromodichloromethane	0.00096	0.0047	0.00033	J	mg/m <sup>3</sup>	2	9/20/2018
Bromoform	ND	0.019	0.00039		mg/m <sup>3</sup>	2	9/20/2018
Bromomethane	ND	0.0068	0.00033		mg/m <sup>3</sup>	2	9/20/2018
Carbon disulfide	0.019	0.0022	0.00056		mg/m <sup>3</sup>	2	9/20/2018
Carbon tetrachloride	ND	0.0047	0.00063		mg/m <sup>3</sup>	2	9/20/2018
Chlorobenzene	ND	0.0032	0.00021		mg/m <sup>3</sup>	2	9/20/2018
Chloroform	0.0023	0.0036	0.00019	J	mg/m <sup>3</sup>	2	9/20/2018
cis-1,2-Dichloroethene	ND	0.0029	0.00021		mg/m <sup>3</sup>	2	9/20/2018
cis-1,3-Dichloropropene	ND	0.0032	0.00038		mg/m <sup>3</sup>	2	9/20/2018
Dibromochloromethane	ND	0.0061	0.00049		mg/m <sup>3</sup>	2	9/20/2018
Dichlorodifluoromethane	0.00035	0.0036	0.00012	J	mg/m <sup>3</sup>	2	9/20/2018
Ethylbenzene	0.0047	0.0032	0.00024		mg/m <sup>3</sup>	2	9/20/2018
Isopropyl Alcohol	1.2	0.11	0.0087		mg/m <sup>3</sup>	25	9/25/2018
m,p-Xylene	0.017	0.0061	0.00046		mg/m <sup>3</sup>	2	9/20/2018
Methyl tert-butyl ether	ND	0.0025	0.00021		mg/m <sup>3</sup>	2	9/20/2018
Methylene chloride	0.0081	0.025	0.0013	J	mg/m <sup>3</sup>	2	9/20/2018
Naphthalene	ND	0.0036	0.0011		mg/m <sup>3</sup>	2	9/20/2018
o-Xylene	0.0069	0.0032	0.0002		mg/m <sup>3</sup>	2	9/20/2018
Styrene	0.0072	0.0032	0.00032		mg/m <sup>3</sup>	2	9/20/2018
Tetrachloroethene	0.30	0.0050	0.00035		mg/m <sup>3</sup>	2	9/20/2018
Toluene	0.022	0.0029	0.0003		mg/m <sup>3</sup>	2	9/20/2018
trans-1,2-Dichloroethene	ND	0.0029	0.0002		mg/m <sup>3</sup>	2	9/20/2018
trans-1,3-Dichloropropene	ND	0.0032	0.00044		mg/m <sup>3</sup>	2	9/20/2018
Trichloroethene	0.0042	0.0039	0.00029		mg/m <sup>3</sup>	2	9/20/2018

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below reporting limit

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL/MDL - Reporting Limit / Method Detection Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Report Date: September 29, 2018

**ANALYTICAL RESULTS**

Print Date: September 29, 2018

CLIENT: Hydrodynamics Consultant, Inc.

Client Sample ID: SV3

Work Order: 18090548 Revision 0

Tag Number:

Project: Westwood Cleaners, 8731 West North Aveue, Wauwatos

Collection Date: 9/16/2018 2:00:00 PM

Lab ID: 18090548-001A

Matrix: AIR

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: <b>9/18/2018</b>		Analyst: <b>AOA</b>	
Trichlorofluoromethane	0.00081	0.0039	0.00025	J	mg/m <sup>3</sup>	2	9/20/2018
Vinyl acetate	ND	0.025	0.00034		mg/m <sup>3</sup>	2	9/20/2018
Vinyl chloride	ND	0.0018	0.00015		mg/m <sup>3</sup>	2	9/20/2018
Xylenes, Total	0.024	0.0093	0.00065		mg/m <sup>3</sup>	2	9/20/2018

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below reporting limit

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL/MDL - Reporting Limit / Method Detection Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Report Date: September 29, 2018

**ANALYTICAL RESULTS**

Print Date: September 29, 2018

CLIENT: Hydrodynamics Consultant, Inc.

Client Sample ID: SV3-D

Work Order: 18090548 Revision 0

Tag Number:

Project: Westwood Cleaners, 8731 West North Aveue, Wauwatos

Collection Date: 9/16/2018 3:10:00 PM

Lab ID: 18090548-002A

Matrix: AIR

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>			<b>TO-15</b>	<b>Prep Date: 9/18/2018</b>		<b>Analyst: AOA</b>	
1,1,1-Trichloroethane	ND	0.0091	0.00047		mg/m <sup>3</sup>	5	9/20/2018
1,1,2-Trichloroethane	ND	0.0091	0.00087		mg/m <sup>3</sup>	5	9/20/2018
1,1-Dichloroethane	ND	0.0066	0.00032		mg/m <sup>3</sup>	5	9/20/2018
1,1-Dichloroethene	ND	0.0066	0.00041		mg/m <sup>3</sup>	5	9/20/2018
1,2,4-Trichlorobenzene	ND	0.012	0.0027		mg/m <sup>3</sup>	5	9/20/2018
1,2-Dibromoethane	ND	0.012	0.0014		mg/m <sup>3</sup>	5	9/20/2018
1,2-Dichlorobenzene	ND	0.0099	0.00083		mg/m <sup>3</sup>	5	9/20/2018
1,2-Dichloroethane	ND	0.0066	0.00077		mg/m <sup>3</sup>	5	9/20/2018
1,2-Dichloropropane	ND	0.0074	0.00052		mg/m <sup>3</sup>	5	9/20/2018
1,4-Dichlorobenzene	ND	0.0099	0.0011		mg/m <sup>3</sup>	5	9/20/2018
1,4-Dioxane	ND	0.015	0.0017		mg/m <sup>3</sup>	5	9/20/2018
2-Butanone	ND	0.012	0.0011		mg/m <sup>3</sup>	5	9/20/2018
Acetone	0.025	0.040	0.0014	J*	mg/m <sup>3</sup>	5	9/20/2018
Benzene	0.0029	0.0050	0.00038	J	mg/m <sup>3</sup>	5	9/20/2018
Bromodichloromethane	0.0011	0.011	0.00076	J	mg/m <sup>3</sup>	5	9/20/2018
Bromoform	ND	0.043	0.00091		mg/m <sup>3</sup>	5	9/20/2018
Bromomethane	ND	0.016	0.00075		mg/m <sup>3</sup>	5	9/20/2018
Carbon disulfide	ND	0.0051	0.0013		mg/m <sup>3</sup>	5	9/20/2018
Carbon tetrachloride	ND	0.011	0.0015		mg/m <sup>3</sup>	5	9/20/2018
Chlorobenzene	ND	0.0074	0.00048		mg/m <sup>3</sup>	5	9/20/2018
Chloroform	0.0020	0.0083	0.00044	J	mg/m <sup>3</sup>	5	9/20/2018
cis-1,2-Dichloroethene	ND	0.0066	0.00048		mg/m <sup>3</sup>	5	9/20/2018
cis-1,3-Dichloropropene	ND	0.0074	0.00088		mg/m <sup>3</sup>	5	9/20/2018
Dibromochloromethane	ND	0.014	0.0011		mg/m <sup>3</sup>	5	9/20/2018
Dichlorodifluoromethane	ND	0.0083	0.00027		mg/m <sup>3</sup>	5	9/20/2018
Ethylbenzene	0.0022	0.0074	0.00056	J	mg/m <sup>3</sup>	5	9/20/2018
Isopropyl Alcohol	0.90	0.021	0.0016		mg/m <sup>3</sup>	5	9/20/2018
m,p-Xylene	0.0086	0.014	0.0011	J	mg/m <sup>3</sup>	5	9/20/2018
Methyl tert-butyl ether	ND	0.0058	0.00049		mg/m <sup>3</sup>	5	9/20/2018
Methylene chloride	0.033	0.057	0.0031	J	mg/m <sup>3</sup>	5	9/20/2018
Naphthalene	ND	0.0083	0.0025		mg/m <sup>3</sup>	5	9/20/2018
o-Xylene	0.0036	0.0074	0.00046	J	mg/m <sup>3</sup>	5	9/20/2018
Styrene	0.0032	0.0074	0.00075	J	mg/m <sup>3</sup>	5	9/20/2018
Tetrachloroethene	0.30	0.012	0.00081		mg/m <sup>3</sup>	5	9/20/2018
Toluene	0.011	0.0066	0.0007		mg/m <sup>3</sup>	5	9/20/2018
trans-1,2-Dichloroethene	ND	0.0066	0.00045		mg/m <sup>3</sup>	5	9/20/2018
trans-1,3-Dichloropropene	ND	0.0074	0.001		mg/m <sup>3</sup>	5	9/20/2018
Trichloroethene	0.0036	0.0091	0.00068	J	mg/m <sup>3</sup>	5	9/20/2018

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below reporting limit

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL/MDL - Reporting Limit / Method Detection Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Report Date: September 29, 2018

**ANALYTICAL RESULTS**

Print Date: September 29, 2018

CLIENT: Hydrodynamics Consultant, Inc.

Client Sample ID: SV3-D

Work Order: 18090548 Revision 0

Tag Number:

Project: Westwood Cleaners, 8731 West North Aveue, Wauwatos

Collection Date: 9/16/2018 3:10:00 PM

Lab ID: 18090548-002A

Matrix: AIR

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: <b>9/18/2018</b>		Analyst: <b>AOA</b>	
Trichlorofluoromethane	0.00093	0.0091	0.00059	J	mg/m <sup>3</sup>	5	9/20/2018
Vinyl acetate	ND	0.058	0.00078		mg/m <sup>3</sup>	5	9/20/2018
Vinyl chloride	ND	0.0041	0.00036		mg/m <sup>3</sup>	5	9/20/2018
Xylenes, Total	0.012	0.021	0.0015	J	mg/m <sup>3</sup>	5	9/20/2018

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below reporting limit

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL/MDL - Reporting Limit / Method Detection Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

**STAT Analysis Corporation**

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 e-mail address: [STATInfo@STATAnalysis.com](mailto:STATInfo@STATAnalysis.com) A I H A accredited 10248, N V L A P accredited 101202-0

**CHAIN OF CUSTODY RECORD** No. \_\_\_\_\_ Page: \_\_\_\_\_ of \_\_\_\_\_

Company: Hydrodynamics Consultant, Inc. P.O. No.: \_\_\_\_\_

Project Number: \_\_\_\_\_ Client Tracking No.: \_\_\_\_\_

Project Name: Westwood Cleaners Quote No.: \_\_\_\_\_

Location/Address: 8731 West North Avenue, Wauwatosa, WI 53226

Sampler(s): Mike Wan

Report To: Mike Wan Phone: (630) 724-0098

QC Level: 1 2 3 4 Fax: (800) 881-2051

Regulatory Program: NPEDS/MWRD RCRA SDWA SRP TACO Other:

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab.	Preserv.	No. of Containers	X	X	Remarks	Lab No.:	am pm	Results Needed:	Turn Around:
SV3	9/16/2018	2:00	Soil Vapor	X	X	N/A	1	X	X					
SV3-D	9/16/2018	3:10	Soil Vapor	X	X		1	X	X					

Relinquished By: (Signature) \_\_\_\_\_ Date/Time: 9/17/18 12:28

Received By: (Signature) \_\_\_\_\_ Date/Time: 9/17/18 12:28

Relinquished By: (Signature) \_\_\_\_\_ Date/Time: 9/17/18 16:28

Received By: (Signature) \_\_\_\_\_ Date/Time: 9/17/18 16:28

Relinquished By: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

Work Order No.: 18090548

Preservation Code:  
 A = None B = HNO C = NaOH  
 D = H<sub>2</sub>SO<sub>4</sub> E = HCl F = 5035/EnCore

**Sample Receipt Checklist**

Client Name **HYDRODYNAMICS**

Date and Time Received: **9/17/2018 4:28:00 PM**

Work Order Number **18090548**

Received by: **EAA**

Checklist completed by: \_\_\_\_\_

Signature



Date

9/19/18

Reviewed by: \_\_\_\_\_

Initials

Bm

Date

9/18/18

Matrix:

Carrier name STAT Analysis

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels/containers? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Container or Temp Blank temperature in compliance? Yes  No  Temperature Ambient °C
- Water - VOA vials have zero headspace? No VOA vials submitted  Yes  No
- Water - Samples pH checked? Yes  No  Checked by: \_\_\_\_\_
- Water - Samples properly preserved? Yes  No  pH Adjusted? \_\_\_\_\_

Any No response must be detailed in the comments section below.

-----

Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Client / Person contacted: \_\_\_\_\_

Date contacted: \_\_\_\_\_

Contacted by: \_\_\_\_\_

Response: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**STAT** Analysis Corporation

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September 29, 2018

Hydrodynamics Consultant, Inc.  
5403 Patton Drive  
Lisle, IL 60532

Telephone: (630) 724-0098  
Fax: (800) 881-2051

Analytical Report for STAT Work Order: 18090701 Revision 0

RE: Westwood Cleaners, 8731 West North Avenue, Wauwatosa, WI, 53226

Dear Dr. Yong Yu:


STAT Analysis received 8 samples for the referenced project on 9/20/2018 2:30:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAP standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Craig Chawla  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*



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**Client:** Hydrodynamics Consultant, Inc.

**Project:** Westwood Cleaners, 8731 West North Avenue, Wauwa

**Work Order Sample Summary**

**Work Order:** 18090701 Revision 0

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<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
18090701-001A	MW1		9/19/2018 11:10:00 AM	9/20/2018
18090701-002A	MW1-D		9/19/2018 11:12:00 AM	9/20/2018
18090701-003A	MW2		9/19/2018 11:40:00 AM	9/20/2018
18090701-004A	MW3		9/19/2018 11:55:00 AM	9/20/2018
18090701-005A	MW4		9/19/2018 12:30:00 PM	9/20/2018
18090701-006A	MW5		9/19/2018 1:05:00 PM	9/20/2018
18090701-007A	MW6		9/19/2018 1:50:00 PM	9/20/2018
18090701-008A	MW-TB		9/18/2018 10:30:00 AM	9/20/2018

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Report Date: September 29, 2018

**ANALYTICAL RESULTS**

Print Date: September 29, 2018

CLIENT: Hydrodynamics Consultant, Inc.

Client Sample ID: MW1

Work Order: 18090701 Revision 0

Tag Number:

Project: Westwood Cleaners, 8731 West North Avenue, Wauwato

Collection Date: 9/19/2018 11:10:00 AM

Lab ID: 18090701-001A

Matrix: WATER

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260B (SW5030B)</b>		Prep Date:		Analyst: MJK		
Acetone	ND	0.020	0.0031		mg/L	1	9/21/2018
Benzene	ND	0.0050	0.0002		mg/L	1	9/21/2018
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	9/21/2018
Bromoform	ND	0.0050	0.0003		mg/L	1	9/21/2018
Bromomethane	ND	0.010	0.002		mg/L	1	9/21/2018
2-Butanone	ND	0.020	0.0016		mg/L	1	9/21/2018
Carbon disulfide	ND	0.010	0.0003		mg/L	1	9/21/2018
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	9/21/2018
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	9/21/2018
Chloroethane	ND	0.010	0.0005		mg/L	1	9/21/2018
Chloroform	ND	0.0050	0.0001		mg/L	1	9/21/2018
Chloromethane	ND	0.010	0.0003		mg/L	1	9/21/2018
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	9/21/2018
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	9/21/2018
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	9/21/2018
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	9/21/2018
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	9/21/2018
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	9/21/2018
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	9/21/2018
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	9/21/2018
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	9/21/2018
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	9/21/2018
2-Hexanone	ND	0.020	0.0002		mg/L	1	9/21/2018
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	9/21/2018
Methylene chloride	ND	0.0050	0.0002		mg/L	1	9/21/2018
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	9/21/2018
Styrene	ND	0.0050	0.0003		mg/L	1	9/21/2018
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	9/21/2018
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	9/21/2018
Toluene	ND	0.0050	0.0004		mg/L	1	9/21/2018
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	9/21/2018
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	9/21/2018
Trichloroethene	ND	0.0050	0.0003		mg/L	1	9/21/2018
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	9/21/2018
Xylenes, Total	ND	0.015	0.001		mg/L	1	9/21/2018

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL/MDL - Reporting Limit / Method Detection Limit for the analysis
	J - Analyte detected below reporting limit	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Report Date: September 29, 2018

**ANALYTICAL RESULTS**

Print Date: September 29, 2018

CLIENT: Hydrodynamics Consultant, Inc.

Client Sample ID: MW1-D

Work Order: 18090701 Revision 0

Tag Number:

Project: Westwood Cleaners, 8731 West North Avenue, Wauwato

Collection Date: 9/19/2018 11:12:00 AM

Lab ID: 18090701-002A

Matrix: WATER

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260B (SW5030B)</b>			Prep Date:	Analyst: MJK		
Acetone	ND	0.020	0.0031		mg/L	1	9/21/2018
Benzene	0.00022	0.0050	0.0002	J	mg/L	1	9/21/2018
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	9/21/2018
Bromoform	ND	0.0050	0.0003		mg/L	1	9/21/2018
Bromomethane	ND	0.010	0.002		mg/L	1	9/21/2018
2-Butanone	ND	0.020	0.0016		mg/L	1	9/21/2018
Carbon disulfide	ND	0.010	0.0003		mg/L	1	9/21/2018
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	9/21/2018
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	9/21/2018
Chloroethane	ND	0.010	0.0005		mg/L	1	9/21/2018
Chloroform	ND	0.0050	0.0001		mg/L	1	9/21/2018
Chloromethane	ND	0.010	0.0003		mg/L	1	9/21/2018
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	9/21/2018
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	9/21/2018
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	9/21/2018
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	9/21/2018
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	9/21/2018
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	9/21/2018
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	9/21/2018
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	9/21/2018
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	9/21/2018
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	9/21/2018
2-Hexanone	ND	0.020	0.0002		mg/L	1	9/21/2018
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	9/21/2018
Methylene chloride	ND	0.0050	0.0002		mg/L	1	9/21/2018
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	9/21/2018
Styrene	ND	0.0050	0.0003		mg/L	1	9/21/2018
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	9/21/2018
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	9/21/2018
Toluene	ND	0.0050	0.0004		mg/L	1	9/21/2018
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	9/21/2018
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	9/21/2018
Trichloroethene	ND	0.0050	0.0003		mg/L	1	9/21/2018
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	9/21/2018
Xylenes, Total	ND	0.015	0.001		mg/L	1	9/21/2018

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL/MDL - Reporting Limit / Method Detection Limit for the analysis
	J - Analyte detected below reporting limit	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: September 29, 2018

**ANALYTICAL RESULTS**

Print Date: September 29, 2018

CLIENT: Hydrodynamics Consultant, Inc.

Client Sample ID: MW2

Work Order: 18090701 Revision 0

Tag Number:

Project: Westwood Cleaners, 8731 West North Avenue, Wauwato

Collection Date: 9/19/2018 11:40:00 AM

Lab ID: 18090701-003A

Matrix: WATER

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW8260B (SW5030B)</b>		Prep Date:		Analyst: MJK	
Acetone	ND	0.020	0.0031		mg/L	1	9/21/2018
Benzene	ND	0.0050	0.0002		mg/L	1	9/21/2018
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	9/21/2018
Bromoform	ND	0.0050	0.0003		mg/L	1	9/21/2018
Bromomethane	ND	0.010	0.002		mg/L	1	9/21/2018
2-Butanone	ND	0.020	0.0016		mg/L	1	9/21/2018
Carbon disulfide	ND	0.010	0.0003		mg/L	1	9/21/2018
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	9/21/2018
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	9/21/2018
Chloroethane	ND	0.010	0.0005		mg/L	1	9/21/2018
Chloroform	0.0015	0.0050	0.0001	J	mg/L	1	9/21/2018
Chloromethane	ND	0.010	0.0003		mg/L	1	9/21/2018
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	9/21/2018
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	9/21/2018
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	9/21/2018
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	9/21/2018
cis-1,2-Dichloroethene	0.00069	0.0050	0.0002	J	mg/L	1	9/21/2018
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	9/21/2018
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	9/21/2018
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	9/21/2018
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	9/21/2018
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	9/21/2018
2-Hexanone	ND	0.020	0.0002		mg/L	1	9/21/2018
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	9/21/2018
Methylene chloride	ND	0.0050	0.0002		mg/L	1	9/21/2018
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	9/21/2018
Styrene	ND	0.0050	0.0003		mg/L	1	9/21/2018
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	9/21/2018
Tetrachloroethene	0.0063	0.0050	0.0003		mg/L	1	9/21/2018
Toluene	0.00085	0.0050	0.0004	J	mg/L	1	9/21/2018
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	9/21/2018
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	9/21/2018
Trichloroethene	ND	0.0050	0.0003		mg/L	1	9/21/2018
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	9/21/2018
Xylenes, Total	ND	0.015	0.001		mg/L	1	9/21/2018

ND - Not Detected at the Reporting Limit

RL/MDL - Reporting Limit / Method Detection Limit for the analysis

Qualifiers: J - Analyte detected below reporting limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

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Report Date: September 29, 2018

**ANALYTICAL RESULTS**

Print Date: September 29, 2018

CLIENT: Hydrodynamics Consultant, Inc.

Client Sample ID: MW3

Work Order: 18090701 Revision 0

Tag Number:

Project: Westwood Cleaners, 8731 West North Avenue, Wauwato

Collection Date: 9/19/2018 11:55:00 AM

Lab ID: 18090701-004A

Matrix: WATER

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS**

SW8260B (SW5030B)

Prep Date:

Analyst: MJK

Acetone	ND	0.020	0.0031		mg/L	1	9/21/2018
Benzene	ND	0.0050	0.0002		mg/L	1	9/21/2018
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	9/21/2018
Bromoform	ND	0.0050	0.0003		mg/L	1	9/21/2018
Bromomethane	ND	0.010	0.002		mg/L	1	9/21/2018
2-Butanone	ND	0.020	0.0016		mg/L	1	9/21/2018
Carbon disulfide	ND	0.010	0.0003		mg/L	1	9/21/2018
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	9/21/2018
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	9/21/2018
Chloroethane	ND	0.010	0.0005		mg/L	1	9/21/2018
Chloroform	ND	0.0050	0.0001		mg/L	1	9/21/2018
Chloromethane	ND	0.010	0.0003		mg/L	1	9/21/2018
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	9/21/2018
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	9/21/2018
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	9/21/2018
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	9/21/2018
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	9/21/2018
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	9/21/2018
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	9/21/2018
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	9/21/2018
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	9/21/2018
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	9/21/2018
2-Hexanone	ND	0.020	0.0002		mg/L	1	9/21/2018
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	9/21/2018
Methylene chloride	ND	0.0050	0.0002		mg/L	1	9/21/2018
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	9/21/2018
Styrene	ND	0.0050	0.0003		mg/L	1	9/21/2018
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	9/21/2018
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	9/21/2018
Toluene	ND	0.0050	0.0004		mg/L	1	9/21/2018
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	9/21/2018
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	9/21/2018
Trichloroethene	ND	0.0050	0.0003		mg/L	1	9/21/2018
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	9/21/2018
Xylenes, Total	ND	0.015	0.001		mg/L	1	9/21/2018

ND - Not Detected at the Reporting Limit

RL/MDL - Reporting Limit / Method Detection Limit for the analysis

Qualifiers: J - Analyte detected below reporting limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Report Date: September 29, 2018

**ANALYTICAL RESULTS**

Print Date: September 29, 2018

CLIENT: Hydrodynamics Consultant, Inc.

Client Sample ID: MW4

Work Order: 18090701 Revision 0

Tag Number:

Project: Westwood Cleaners, 8731 West North Avenue, Wauwato

Collection Date: 9/19/2018 12:30:00 PM

Lab ID: 18090701-005A

Matrix: WATER

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS**

SW8260B (SW5030B)

Prep Date:

Analyst: MJK

Acetone	ND	0.020	0.0031		mg/L	1	9/22/2018
Benzene	ND	0.0050	0.0002		mg/L	1	9/22/2018
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	9/22/2018
Bromoform	ND	0.0050	0.0003		mg/L	1	9/22/2018
Bromomethane	ND	0.010	0.002		mg/L	1	9/22/2018
2-Butanone	ND	0.020	0.0016		mg/L	1	9/22/2018
Carbon disulfide	0.00038	0.010	0.0003	J	mg/L	1	9/22/2018
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	9/22/2018
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	9/22/2018
Chloroethane	ND	0.010	0.0005		mg/L	1	9/22/2018
Chloroform	ND	0.0050	0.0001		mg/L	1	9/22/2018
Chloromethane	ND	0.010	0.0003		mg/L	1	9/22/2018
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	9/22/2018
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	9/22/2018
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	9/22/2018
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	9/22/2018
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	9/22/2018
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	9/22/2018
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	9/22/2018
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	9/22/2018
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	9/22/2018
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	9/22/2018
2-Hexanone	ND	0.020	0.0002		mg/L	1	9/22/2018
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	9/22/2018
Methylene chloride	ND	0.0050	0.0002		mg/L	1	9/22/2018
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	9/22/2018
Styrene	ND	0.0050	0.0003		mg/L	1	9/22/2018
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	9/22/2018
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	9/22/2018
Toluene	ND	0.0050	0.0004		mg/L	1	9/22/2018
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	9/22/2018
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	9/22/2018
Trichloroethene	ND	0.0050	0.0003		mg/L	1	9/22/2018
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	9/22/2018
Xylenes, Total	ND	0.015	0.001		mg/L	1	9/22/2018

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below reporting limit

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL/MDL - Reporting Limit / Method Detection Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Report Date: September 29, 2018

**ANALYTICAL RESULTS**

Print Date: September 29, 2018

CLIENT: Hydrodynamics Consultant, Inc.

Client Sample ID: MW5

Work Order: 18090701 Revision 0

Tag Number:

Project: Westwood Cleaners, 8731 West North Avenue, Wauwato

Collection Date: 9/19/2018 1:05:00 PM

Lab ID: 18090701-006A

Matrix: WATER

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW8260B (SW5030B)</b>		Prep Date:		Analyst: MJK	
Acetone	ND	0.020	0.0031		mg/L	1	9/22/2018
Benzene	ND	0.0050	0.0002		mg/L	1	9/22/2018
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	9/22/2018
Bromoform	ND	0.0050	0.0003		mg/L	1	9/22/2018
Bromomethane	ND	0.010	0.002		mg/L	1	9/22/2018
2-Butanone	ND	0.020	0.0016		mg/L	1	9/22/2018
Carbon disulfide	0.00033	0.010	0.0003	J	mg/L	1	9/22/2018
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	9/22/2018
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	9/22/2018
Chloroethane	ND	0.010	0.0005		mg/L	1	9/22/2018
Chloroform	ND	0.0050	0.0001		mg/L	1	9/22/2018
Chloromethane	ND	0.010	0.0003		mg/L	1	9/22/2018
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	9/22/2018
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	9/22/2018
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	9/22/2018
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	9/22/2018
cis-1,2-Dichloroethene	0.026	0.0050	0.0002		mg/L	1	9/22/2018
trans-1,2-Dichloroethene	0.0045	0.0050	0.0005	J	mg/L	1	9/22/2018
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	9/22/2018
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	9/22/2018
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	9/22/2018
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	9/22/2018
2-Hexanone	ND	0.020	0.0002		mg/L	1	9/22/2018
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	9/22/2018
Methylene chloride	ND	0.0050	0.0002		mg/L	1	9/22/2018
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	9/22/2018
Styrene	ND	0.0050	0.0003		mg/L	1	9/22/2018
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	9/22/2018
Tetrachloroethene	0.16	0.0050	0.0003		mg/L	1	9/22/2018
Toluene	ND	0.0050	0.0004		mg/L	1	9/22/2018
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	9/22/2018
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	9/22/2018
Trichloroethene	0.070	0.0050	0.0003		mg/L	1	9/22/2018
Vinyl chloride	0.038	0.0020	0.0003		mg/L	1	9/22/2018
Xylenes, Total	ND	0.015	0.001		mg/L	1	9/22/2018

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL/MDL - Reporting Limit / Method Detection Limit for the analysis
	J - Analyte detected below reporting limit	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Report Date: September 29, 2018

**ANALYTICAL RESULTS**

Print Date: September 29, 2018

CLIENT: Hydrodynamics Consultant, Inc.

Client Sample ID: MW6

Work Order: 18090701 Revision 0

Tag Number:

Project: Westwood Cleaners, 8731 West North Avenue, Wauwato

Collection Date: 9/19/2018 1:50:00 PM

Lab ID: 18090701-007A

Matrix: WATER

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS**

SW8260B (SW5030B)

Prep Date:

Analyst: MJK

Acetone	ND	0.020	0.0031		mg/L	1	9/22/2018
Benzene	ND	0.0050	0.0002		mg/L	1	9/22/2018
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	9/22/2018
Bromoform	ND	0.0050	0.0003		mg/L	1	9/22/2018
Bromomethane	ND	0.010	0.002		mg/L	1	9/22/2018
2-Butanone	ND	0.020	0.0016		mg/L	1	9/22/2018
Carbon disulfide	ND	0.010	0.0003		mg/L	1	9/22/2018
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	9/22/2018
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	9/22/2018
Chloroethane	ND	0.010	0.0005		mg/L	1	9/22/2018
Chloroform	ND	0.0050	0.0001		mg/L	1	9/22/2018
Chloromethane	ND	0.010	0.0003		mg/L	1	9/22/2018
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	9/22/2018
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	9/22/2018
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	9/22/2018
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	9/22/2018
cis-1,2-Dichloroethene	0.0086	0.0050	0.0002		mg/L	1	9/22/2018
trans-1,2-Dichloroethene	0.0015	0.0050	0.0005	J	mg/L	1	9/22/2018
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	9/22/2018
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	9/22/2018
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	9/22/2018
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	9/22/2018
2-Hexanone	ND	0.020	0.0002		mg/L	1	9/22/2018
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	9/22/2018
Methylene chloride	ND	0.0050	0.0002		mg/L	1	9/22/2018
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	9/22/2018
Styrene	ND	0.0050	0.0003		mg/L	1	9/22/2018
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	9/22/2018
Tetrachloroethene	0.11	0.0050	0.0003		mg/L	1	9/22/2018
Toluene	ND	0.0050	0.0004		mg/L	1	9/22/2018
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	9/22/2018
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	9/22/2018
Trichloroethene	0.011	0.0050	0.0003		mg/L	1	9/22/2018
Vinyl chloride	0.0033	0.0020	0.0003		mg/L	1	9/22/2018
Xylenes, Total	ND	0.015	0.001		mg/L	1	9/22/2018

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below reporting limit

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL/MDL - Reporting Limit / Method Detection Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded



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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Report Date: September 29, 2018

**ANALYTICAL RESULTS**

Print Date: September 29, 2018

CLIENT: Hydrodynamics Consultant, Inc.

Client Sample ID: MW-TB

Work Order: 18090701 Revision 0

Tag Number:

Project: Westwood Cleaners, 8731 West North Avenue, Wauwato

Collection Date: 9/18/2018 10:30:00 AM

Lab ID: 18090701-008A

Matrix: WATER

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS**

SW8260B (SW5030B)

Prep Date:

Analyst: MJK

Acetone	ND	0.020	0.0031		mg/L	1	9/22/2018
Benzene	ND	0.0050	0.0002		mg/L	1	9/22/2018
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	9/22/2018
Bromoform	ND	0.0050	0.0003		mg/L	1	9/22/2018
Bromomethane	ND	0.010	0.002		mg/L	1	9/22/2018
2-Butanone	ND	0.020	0.0016		mg/L	1	9/22/2018
Carbon disulfide	ND	0.010	0.0003		mg/L	1	9/22/2018
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	9/22/2018
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	9/22/2018
Chloroethane	ND	0.010	0.0005		mg/L	1	9/22/2018
Chloroform	0.00075	0.0050	0.0001	J	mg/L	1	9/22/2018
Chloromethane	ND	0.010	0.0003		mg/L	1	9/22/2018
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	9/22/2018
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	9/22/2018
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	9/22/2018
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	9/22/2018
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	9/22/2018
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	9/22/2018
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	9/22/2018
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	9/22/2018
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	9/22/2018
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	9/22/2018
2-Hexanone	ND	0.020	0.0002		mg/L	1	9/22/2018
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	9/22/2018
Methylene chloride	ND	0.0050	0.0002		mg/L	1	9/22/2018
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	9/22/2018
Styrene	ND	0.0050	0.0003		mg/L	1	9/22/2018
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	9/22/2018
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	9/22/2018
Toluene	ND	0.0050	0.0004		mg/L	1	9/22/2018
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	9/22/2018
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	9/22/2018
Trichloroethene	ND	0.0050	0.0003		mg/L	1	9/22/2018
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	9/22/2018
Xylenes, Total	ND	0.015	0.001		mg/L	1	9/22/2018

ND - Not Detected at the Reporting Limit

RL/MDL - Reporting Limit / Method Detection Limit for the analysis

**Qualifiers:**

J - Analyte detected below reporting limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

# STAT Analysis Corporation

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**CHAIN OF CUSTODY RECORD** No.  Page:  of

Company: Hydrodynamics Consultant, Inc.				P.O. No.:		Remarks		am pm	
Project Number: Client Tracking No.:				Quote No.:		Results Needed:		Lab No.:	
Project Name: Westwood Cleaners									
Location/Address: 8731 West North Avenue, Wauwatosa, WI 53226									
Sampler(s): Mike Wan									
Report To: Mike Wan				Phone: (630) 724-0098					
QC Level: 1    2    3    4				Fax: (800) 881-2051					
Regulatory Program: NPEDS/MWRD RCRA SDWA SRP TACO Other:									
Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers		
MW1	9/19/2018	11:10	Water	X	X	HCL	2	X	
MW1-D	9/19/2018	11:12							001
MW2	9/19/2018	11:40							002
MW3	9/19/2018	11:55							005
MW4	9/19/2018	12:30							004
MW5	9/19/2018	13:05							005
MW6	9/19/2018	13:50							006
MW-TB	9/18/2018	10:30							007
									008
<b>VOCS</b>									
<b>Sample Verification:</b>									
Yes				Yes				Yes	No
No				No				No	No
<b>Laboratory Use:</b>									
- Container OK									
- Samples Leaking									
- Refrigerated (Temp: 3.2 °C)									
- Sample Labels Match Sample ID									
Relinquished By: (Signature)				Date/Time: 9/20/2018 11:26		Work Order No.:		18090701	
Received By: (Signature)				Date/Time: 9/20/18 11:28		Preservation Code:		A = None B = HNO C = NaOH	
Relinquished By: (Signature)				Date/Time: 9/20/18 14:50		D = H <sub>2</sub> SO <sub>4</sub> E = HCl F = 5035/ErCore			
Received By: (Signature)				Date/Time: 9/26/18 14:30					
Relinquished By: (Signature)				Date/Time:					

Sample Receipt Checklist

Client Name HYDRODYNAMICS

Date and Time Received: 9/20/2018 2:30:00 PM

Work Order Number 18090701

Received by: EAA

Checklist completed by: [Signature] 9/20/18  
Signature Date

Reviewed by: [Initials] 9/20/18  
Initials Date

Matrix: Carrier name STAT Analysis

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels/containers? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Container or Temp Blank temperature in compliance? Yes  No  Temperature 3.2 °C
- Water - VOA vials have zero headspace? No VOA vials submitted  Yes  No
- Water - Samples pH checked? Yes  No  Checked by: \_\_\_\_\_
- Water - Samples properly preserved? Yes  No  pH Adjusted? \_\_\_\_\_

Any No response must be detailed in the comments section below.

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Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Client / Person contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Response: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

October 03, 2018

Hydrodynamics Consultant, Inc.  
5403 Patton Drive  
Lisle, IL 60532

Telephone: (630) 724-0098  
Fax: (800) 881-2051

Analytical Report for STAT Work Order: 18090717 Revision 0

RE: Westwood Cleaners, 8731 West North Avenue, Wauwatosa, WI 53226

Dear Dr. Yong Yu:

STAT Analysis received 4 samples for the referenced project on 9/20/2018 2:30:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAP standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Justice Kwateng  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

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**Client:** Hydrodynamics Consultant, Inc.

**Project:** Westwood Cleaners, 8731 West North Avenue, Wauwa

**Work Order Sample Summary**

**Work Order:** 18090717 Revision 0

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Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
18090717-001A	SV1		9/19/2018 9:10:00 AM	9/20/2018
18090717-002A	SV2		9/19/2018 9:30:00 AM	9/20/2018
18090717-003A	SV4		9/19/2018 11:20:00 AM	9/20/2018
18090717-004A	SV5		9/19/2018 9:40:00 AM	9/20/2018

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**CLIENT:** Hydrodynamics Consultant, Inc.  
**Project:** Westwood Cleaners, 8731 West North Avenue, Wauwatosa,  
**Work Order:** 18090717 Revision 0

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**CASE NARRATIVE**

TO-15 results that are reported in mg/m<sup>3</sup> are calculated based on a temperature of 25°C, atmospheric pressure of 760 mm Hg, and the molecular weight of the analyte.

The TO-15 Continuing Calibration Verification (CCV) had recovery outside of control limits for the following elements:

Dichlorodifluoromethane: 57.8% recovery (QC Limits 70-130%)

The TO-15 Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) had recoveries of the following compounds outside of control limits:

Dichlorodifluoromethane: 52.2%/46.4% (LCS/LCSD) recovery (QC limits 70-130%)

Vinyl Acetate: 45.6%/44.0% (LCS/LCSD) recovery (QC limits 70-130%)

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Date Reported: October 03, 2018

**ANALYTICAL RESULTS**

Date Printed: October 03, 2018

Client: Hydrodynamics Consultant, Inc.

Client Sample ID: SV1

Work Order: 18090717 Revision 0

Collection Date: 9/19/2018 9:10:00 AM

Project: Westwood Cleaners, 8731 West North Avenue, Wa

Matrix: Air

Lab ID: 18090717-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: 9/21/2018		Analyst: AOA
1,1,1-Trichloroethane	0.00054	0.0037	J	mg/m <sup>3</sup>	2	9/27/2018
1,1,2-Trichloroethane	ND	0.0037		mg/m <sup>3</sup>	2	9/27/2018
1,1-Dichloroethane	ND	0.0027		mg/m <sup>3</sup>	2	9/27/2018
1,1-Dichloroethene	ND	0.0027		mg/m <sup>3</sup>	2	9/27/2018
1,2,4-Trichlorobenzene	ND	0.0050		mg/m <sup>3</sup>	2	9/27/2018
1,2-Dibromoethane	ND	0.0050		mg/m <sup>3</sup>	2	9/27/2018
1,2-Dichlorobenzene	ND	0.0040		mg/m <sup>3</sup>	2	9/27/2018
1,2-Dichloroethane	0.0012	0.0027	J	mg/m <sup>3</sup>	2	9/27/2018
1,2-Dichloropropane	ND	0.0030		mg/m <sup>3</sup>	2	9/27/2018
1,4-Dichlorobenzene	ND	0.0040		mg/m <sup>3</sup>	2	9/27/2018
1,4-Dioxane	ND	0.0060		mg/m <sup>3</sup>	2	9/27/2018
2-Butanone	0.0049	0.0050	J	mg/m <sup>3</sup>	2	9/27/2018
Acetone	ND	0.016	*	mg/m <sup>3</sup>	2	9/27/2018
Benzene	0.0037	0.0020		mg/m <sup>3</sup>	2	9/27/2018
Bromodichloromethane	ND	0.0043		mg/m <sup>3</sup>	2	9/27/2018
Bromoform	ND	0.017		mg/m <sup>3</sup>	2	9/27/2018
Bromomethane	ND	0.0063		mg/m <sup>3</sup>	2	9/27/2018
Carbon disulfide	0.0070	0.0021		mg/m <sup>3</sup>	2	9/27/2018
Carbon tetrachloride	ND	0.0043		mg/m <sup>3</sup>	2	9/27/2018
Chlorobenzene	ND	0.0030		mg/m <sup>3</sup>	2	9/27/2018
Chloroform	0.0019	0.0033	J	mg/m <sup>3</sup>	2	9/27/2018
cis-1,2-Dichloroethene	ND	0.0027		mg/m <sup>3</sup>	2	9/27/2018
cis-1,3-Dichloropropene	ND	0.0030		mg/m <sup>3</sup>	2	9/27/2018
Dibromochloromethane	ND	0.0057		mg/m <sup>3</sup>	2	9/27/2018
Dichlorodifluoromethane	ND	0.0033		mg/m <sup>3</sup>	2	9/27/2018
Ethylbenzene	0.010	0.0030		mg/m <sup>3</sup>	2	9/27/2018
Isopropyl Alcohol	9.4	2.1		mg/m <sup>3</sup>	500	9/28/2018
m,p-Xylene	0.035	0.0057		mg/m <sup>3</sup>	2	9/27/2018
Methyl tert-butyl ether	ND	0.0023		mg/m <sup>3</sup>	2	9/27/2018
Methylene chloride	0.0073	0.023	J	mg/m <sup>3</sup>	2	9/27/2018
Naphthalene	ND	0.00099		mg/m <sup>3</sup>	2	9/27/2018
o-Xylene	0.013	0.0030		mg/m <sup>3</sup>	2	9/27/2018
Styrene	0.015	0.0030		mg/m <sup>3</sup>	2	9/27/2018
Tetrachloroethene	0.017	0.0047		mg/m <sup>3</sup>	2	9/27/2018
Toluene	0.057	0.0027		mg/m <sup>3</sup>	2	9/27/2018
trans-1,2-Dichloroethene	ND	0.0027		mg/m <sup>3</sup>	2	9/27/2018
trans-1,3-Dichloropropene	ND	0.0030		mg/m <sup>3</sup>	2	9/27/2018
Trichloroethene	ND	0.0037		mg/m <sup>3</sup>	2	9/27/2018

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Date Reported: October 03, 2018

**ANALYTICAL RESULTS**

Date Printed: October 03, 2018

Client: Hydrodynamics Consultant, Inc.

Client Sample ID: SV1

Work Order: 18090717 Revision 0

Collection Date: 9/19/2018 9:10:00 AM

Project: Westwood Cleaners, 8731 West North Avenue, Wa

Matrix: Air

Lab ID: 18090717-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>						
					Prep Date: 9/21/2018	Analyst: AOA
Trichlorofluoromethane	0.00075	0.0037	J	mg/m <sup>3</sup>	2	9/27/2018
Vinyl acetate	ND	0.023		mg/m <sup>3</sup>	2	9/27/2018
Vinyl chloride	ND	0.0017		mg/m <sup>3</sup>	2	9/27/2018
Xylenes, Total	0.049	0.0086		mg/m <sup>3</sup>	2	9/27/2018

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Date Reported: October 03, 2018

**ANALYTICAL RESULTS**

Date Printed: October 03, 2018

Client: Hydrodynamics Consultant, Inc.

Client Sample ID: SV2

Work Order: 18090717 Revision 0

Collection Date: 9/19/2018 9:30:00 AM

Project: Westwood Cleaners, 8731 West North Avenue, Wa

Matrix: Air

Lab ID: 18090717-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: 9/21/2018		Analyst: AOA
1,1,1-Trichloroethane	0.00040	0.0040	J	mg/m <sup>3</sup>	2	9/27/2018
1,1,2-Trichloroethane	ND	0.0040		mg/m <sup>3</sup>	2	9/27/2018
1,1-Dichloroethane	ND	0.0029		mg/m <sup>3</sup>	2	9/27/2018
1,1-Dichloroethene	ND	0.0029		mg/m <sup>3</sup>	2	9/27/2018
1,2,4-Trichlorobenzene	ND	0.0055		mg/m <sup>3</sup>	2	9/27/2018
1,2-Dibromoethane	ND	0.0055		mg/m <sup>3</sup>	2	9/27/2018
1,2-Dichlorobenzene	ND	0.0044		mg/m <sup>3</sup>	2	9/27/2018
1,2-Dichloroethane	ND	0.0029		mg/m <sup>3</sup>	2	9/27/2018
1,2-Dichloropropane	ND	0.0033		mg/m <sup>3</sup>	2	9/27/2018
1,4-Dichlorobenzene	ND	0.0044		mg/m <sup>3</sup>	2	9/27/2018
1,4-Dioxane	ND	0.0066		mg/m <sup>3</sup>	2	9/27/2018
2-Butanone	0.0065	0.0055		mg/m <sup>3</sup>	2	9/27/2018
Acetone	ND	0.018	*	mg/m <sup>3</sup>	2	9/27/2018
Benzene	0.0052	0.0022		mg/m <sup>3</sup>	2	9/27/2018
Bromodichloromethane	ND	0.0048		mg/m <sup>3</sup>	2	9/27/2018
Bromoform	ND	0.019		mg/m <sup>3</sup>	2	9/27/2018
Bromomethane	0.0010	0.0070	J	mg/m <sup>3</sup>	2	9/27/2018
Carbon disulfide	0.015	0.0023		mg/m <sup>3</sup>	2	9/27/2018
Carbon tetrachloride	ND	0.0048		mg/m <sup>3</sup>	2	9/27/2018
Chlorobenzene	ND	0.0033		mg/m <sup>3</sup>	2	9/27/2018
Chloroform	0.0084	0.0037		mg/m <sup>3</sup>	2	9/27/2018
cis-1,2-Dichloroethene	0.0012	0.0029	J	mg/m <sup>3</sup>	2	9/27/2018
cis-1,3-Dichloropropene	ND	0.0033		mg/m <sup>3</sup>	2	9/27/2018
Dibromochloromethane	ND	0.0062		mg/m <sup>3</sup>	2	9/27/2018
Dichlorodifluoromethane	ND	0.0037		mg/m <sup>3</sup>	2	9/27/2018
Ethylbenzene	0.012	0.0033		mg/m <sup>3</sup>	2	9/27/2018
Isopropyl Alcohol	8.7	2.3		mg/m <sup>3</sup>	500	9/28/2018
m,p-Xylene	0.040	0.0062		mg/m <sup>3</sup>	2	9/27/2018
Methyl tert-butyl ether	ND	0.0026		mg/m <sup>3</sup>	2	9/27/2018
Methylene chloride	0.0038	0.025	J	mg/m <sup>3</sup>	2	9/27/2018
Naphthalene	ND	0.0011		mg/m <sup>3</sup>	2	9/27/2018
o-Xylene	0.013	0.0033		mg/m <sup>3</sup>	2	9/27/2018
Styrene	0.015	0.0033		mg/m <sup>3</sup>	2	9/27/2018
Tetrachloroethene	1.2	0.0051		mg/m <sup>3</sup>	2	9/27/2018
Toluene	0.062	0.0029		mg/m <sup>3</sup>	2	9/27/2018
trans-1,2-Dichloroethene	ND	0.0029		mg/m <sup>3</sup>	2	9/27/2018
trans-1,3-Dichloropropene	ND	0.0033		mg/m <sup>3</sup>	2	9/27/2018
Trichloroethene	0.10	0.0040		mg/m <sup>3</sup>	2	9/27/2018

**Qualifiers:** ND - Not Detected at the Reporting Limit  
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 HT - Sample received past holding time  
 \* - Non-accredited parameter  
 RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
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 E - Value above quantitation range  
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Date Reported: October 03, 2018

**ANALYTICAL RESULTS**

Date Printed: October 03, 2018

Client: Hydrodynamics Consultant, Inc.

Client Sample ID: SV2

Work Order: 18090717 Revision 0

Collection Date: 9/19/2018 9:30:00 AM

Project: Westwood Cleaners, 8731 West North Avenue, Wa

Matrix: Air

Lab ID: 18090717-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>						
					Prep Date: 9/21/2018	Analyst: AOA
Trichlorofluoromethane	0.0010	0.0040	J	mg/m <sup>3</sup>	2	9/27/2018
Vinyl acetate	ND	0.026		mg/m <sup>3</sup>	2	9/27/2018
Vinyl chloride	ND	0.0018		mg/m <sup>3</sup>	2	9/27/2018
Xylenes, Total	0.054	0.0095		mg/m <sup>3</sup>	2	9/27/2018

**Qualifiers:**  
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Date Reported: October 03, 2018

**ANALYTICAL RESULTS**

Date Printed: October 03, 2018

Client: Hydrodynamics Consultant, Inc.

Client Sample ID: SV4

Work Order: 18090717 Revision 0

Collection Date: 9/19/2018 11:20:00 AM

Project: Westwood Cleaners, 8731 West North Avenue, Wa

Matrix: Air

Lab ID: 18090717-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: 9/21/2018		Analyst: AOA
1,1,1-Trichloroethane	ND	0.0041		mg/m <sup>3</sup>	2	9/27/2018
1,1,2-Trichloroethane	ND	0.0041		mg/m <sup>3</sup>	2	9/27/2018
1,1-Dichloroethane	ND	0.0030		mg/m <sup>3</sup>	2	9/27/2018
1,1-Dichloroethene	ND	0.0030		mg/m <sup>3</sup>	2	9/27/2018
1,2,4-Trichlorobenzene	ND	0.0056		mg/m <sup>3</sup>	2	9/27/2018
1,2-Dibromoethane	ND	0.0056		mg/m <sup>3</sup>	2	9/27/2018
1,2-Dichlorobenzene	ND	0.0044		mg/m <sup>3</sup>	2	9/27/2018
1,2-Dichloroethane	ND	0.0030		mg/m <sup>3</sup>	2	9/27/2018
1,2-Dichloropropane	ND	0.0033		mg/m <sup>3</sup>	2	9/27/2018
1,4-Dichlorobenzene	ND	0.0044		mg/m <sup>3</sup>	2	9/27/2018
1,4-Dioxane	ND	0.0067		mg/m <sup>3</sup>	2	9/27/2018
2-Butanone	0.0024	0.0056	J	mg/m <sup>3</sup>	2	9/27/2018
Acetone	0.13	0.018	*	mg/m <sup>3</sup>	2	9/27/2018
Benzene	0.0013	0.0022	J	mg/m <sup>3</sup>	2	9/27/2018
Bromodichloromethane	ND	0.0048		mg/m <sup>3</sup>	2	9/27/2018
Bromoform	ND	0.019		mg/m <sup>3</sup>	2	9/27/2018
Bromomethane	0.00057	0.0070	J	mg/m <sup>3</sup>	2	9/27/2018
Carbon disulfide	0.0055	0.0023		mg/m <sup>3</sup>	2	9/27/2018
Carbon tetrachloride	ND	0.0048		mg/m <sup>3</sup>	2	9/27/2018
Chlorobenzene	ND	0.0033		mg/m <sup>3</sup>	2	9/27/2018
Chloroform	ND	0.0037		mg/m <sup>3</sup>	2	9/27/2018
cis-1,2-Dichloroethene	ND	0.0030		mg/m <sup>3</sup>	2	9/27/2018
cis-1,3-Dichloropropene	ND	0.0033		mg/m <sup>3</sup>	2	9/27/2018
Dibromochloromethane	ND	0.0063		mg/m <sup>3</sup>	2	9/27/2018
Dichlorodifluoromethane	ND	0.0037		mg/m <sup>3</sup>	2	9/27/2018
Ethylbenzene	0.0047	0.0033		mg/m <sup>3</sup>	2	9/27/2018
Isopropyl Alcohol	2.6	0.12		mg/m <sup>3</sup>	25	9/27/2018
m,p-Xylene	0.017	0.0063		mg/m <sup>3</sup>	2	9/27/2018
Methyl tert-butyl ether	ND	0.0026		mg/m <sup>3</sup>	2	9/27/2018
Methylene chloride	ND	0.026		mg/m <sup>3</sup>	2	9/27/2018
Naphthalene	ND	0.0011		mg/m <sup>3</sup>	2	9/27/2018
o-Xylene	0.0069	0.0033		mg/m <sup>3</sup>	2	9/27/2018
Styrene	0.0085	0.0033		mg/m <sup>3</sup>	2	9/27/2018
Tetrachloroethene	0.052	0.0052		mg/m <sup>3</sup>	2	9/27/2018
Toluene	0.021	0.0030		mg/m <sup>3</sup>	2	9/27/2018
trans-1,2-Dichloroethene	ND	0.0030		mg/m <sup>3</sup>	2	9/27/2018
trans-1,3-Dichloropropene	ND	0.0033		mg/m <sup>3</sup>	2	9/27/2018
Trichloroethene	0.00040	0.0041	J	mg/m <sup>3</sup>	2	9/27/2018

**Qualifiers:**  
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 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
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Date Reported: October 03, 2018

**ANALYTICAL RESULTS**

Date Printed: October 03, 2018

Client: Hydrodynamics Consultant, Inc.

Client Sample ID: SV4

Work Order: 18090717 Revision 0

Collection Date: 9/19/2018 11:20:00 AM

Project: Westwood Cleaners, 8731 West North Avenue, Wa

Matrix: Air

Lab ID: 18090717-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>						
					Prep Date: 9/21/2018	Analyst: AOA
Trichlorofluoromethane	0.0010	0.0041	J	mg/m <sup>3</sup>	2	9/27/2018
Vinyl acetate	ND	0.026		mg/m <sup>3</sup>	2	9/27/2018
Vinyl chloride	ND	0.0019		mg/m <sup>3</sup>	2	9/27/2018
Xylenes, Total	0.024	0.0096		mg/m <sup>3</sup>	2	9/27/2018

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
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 HT - Sample received past holding time  
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RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
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Date Reported: October 03, 2018

**ANALYTICAL RESULTS**

Date Printed: October 03, 2018

Client: Hydrodynamics Consultant, Inc.

Client Sample ID: SV5

Work Order: 18090717 Revision 0

Collection Date: 9/19/2018 9:40:00 AM

Project: Westwood Cleaners, 8731 West North Avenue, Wa

Matrix: Air

Lab ID: 18090717-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: 9/21/2018		Analyst: AOA
1,1,1-Trichloroethane	ND	0.0077		mg/m <sup>3</sup>	4	9/27/2018
1,1,2-Trichloroethane	ND	0.0077		mg/m <sup>3</sup>	4	9/27/2018
1,1-Dichloroethane	ND	0.0056		mg/m <sup>3</sup>	4	9/27/2018
1,1-Dichloroethene	ND	0.0056		mg/m <sup>3</sup>	4	9/27/2018
1,2,4-Trichlorobenzene	ND	0.011		mg/m <sup>3</sup>	4	9/27/2018
1,2-Dibromoethane	ND	0.011		mg/m <sup>3</sup>	4	9/27/2018
1,2-Dichlorobenzene	ND	0.0084		mg/m <sup>3</sup>	4	9/27/2018
1,2-Dichloroethane	ND	0.0056		mg/m <sup>3</sup>	4	9/27/2018
1,2-Dichloropropane	ND	0.0063		mg/m <sup>3</sup>	4	9/27/2018
1,4-Dichlorobenzene	ND	0.0084		mg/m <sup>3</sup>	4	9/27/2018
1,4-Dioxane	ND	0.013		mg/m <sup>3</sup>	4	9/27/2018
2-Butanone	0.0058	0.011	J	mg/m <sup>3</sup>	4	9/27/2018
Acetone	0.12	0.034	*	mg/m <sup>3</sup>	4	9/27/2018
Benzene	0.0043	0.0042		mg/m <sup>3</sup>	4	9/27/2018
Bromodichloromethane	ND	0.0091		mg/m <sup>3</sup>	4	9/27/2018
Bromoform	ND	0.036		mg/m <sup>3</sup>	4	9/27/2018
Bromomethane	ND	0.013		mg/m <sup>3</sup>	4	9/27/2018
Carbon disulfide	0.0059	0.0044		mg/m <sup>3</sup>	4	9/27/2018
Carbon tetrachloride	ND	0.0091		mg/m <sup>3</sup>	4	9/27/2018
Chlorobenzene	ND	0.0063		mg/m <sup>3</sup>	4	9/27/2018
Chloroform	0.00069	0.0070	J	mg/m <sup>3</sup>	4	9/27/2018
cis-1,2-Dichloroethene	ND	0.0056		mg/m <sup>3</sup>	4	9/27/2018
cis-1,3-Dichloropropene	ND	0.0063		mg/m <sup>3</sup>	4	9/27/2018
Dibromochloromethane	ND	0.012		mg/m <sup>3</sup>	4	9/27/2018
Dichlorodifluoromethane	0.00069	0.0070	J	mg/m <sup>3</sup>	4	9/27/2018
Ethylbenzene	0.011	0.0063		mg/m <sup>3</sup>	4	9/27/2018
Isopropyl Alcohol	6.9	2.2		mg/m <sup>3</sup>	500	9/28/2018
m,p-Xylene	0.036	0.012		mg/m <sup>3</sup>	4	9/27/2018
Methyl tert-butyl ether	ND	0.0049		mg/m <sup>3</sup>	4	9/27/2018
Methylene chloride	ND	0.048		mg/m <sup>3</sup>	4	9/27/2018
Naphthalene	ND	0.0021		mg/m <sup>3</sup>	4	9/27/2018
o-Xylene	0.014	0.0063		mg/m <sup>3</sup>	4	9/27/2018
Styrene	0.013	0.0063		mg/m <sup>3</sup>	4	9/27/2018
Tetrachloroethene	0.063	0.0098		mg/m <sup>3</sup>	4	9/27/2018
Toluene	0.050	0.0056		mg/m <sup>3</sup>	4	9/27/2018
trans-1,2-Dichloroethene	ND	0.0056		mg/m <sup>3</sup>	4	9/27/2018
trans-1,3-Dichloropropene	ND	0.0063		mg/m <sup>3</sup>	4	9/27/2018
Trichloroethene	ND	0.0077		mg/m <sup>3</sup>	4	9/27/2018

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: October 03, 2018

**ANALYTICAL RESULTS**

Date Printed: October 03, 2018

Client: Hydrodynamics Consultant, Inc.

Client Sample ID: SV5

Work Order: 18090717 Revision 0

Collection Date: 9/19/2018 9:40:00 AM

Project: Westwood Cleaners, 8731 West North Avenue, Wa

Matrix: Air

Lab ID: 18090717-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>						
					Prep Date: 9/21/2018	Analyst: AOA
Trichlorofluoromethane	0.0012	0.0077	J	mg/m <sup>3</sup>	4	9/27/2018
Vinyl acetate	ND	0.049		mg/m <sup>3</sup>	4	9/27/2018
Vinyl chloride	ND	0.0035		mg/m <sup>3</sup>	4	9/27/2018
Xylenes, Total	0.049	0.018		mg/m <sup>3</sup>	4	9/27/2018

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**STAT Analysis Corporation**

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e-mail address: [STATinfo@STATAnalysis.com](mailto:STATinfo@STATAnalysis.com) A I H A accredited 10248, N V L A P accredited 101202-0

**CHAIN OF CUSTODY RECORD** No: \_\_\_\_\_ of \_\_\_\_\_ Page: \_\_\_\_\_

Company: Hydrodynamics Consultant, Inc.	
Project Number:	Client Tracking No.:
Project Name: Westwood Cleaners	
Location/Address: 8731 West North Avenue, Wauwatosa, WI 53226	
Sampler(s): Mike Wan	
Report To: Mike Wan	Phone: (630) 724-0098
QC Level: 1 2 3 4	Fax: (800) 881-2051
Regulatory Program: NPEDS/MWRD RCRA SDWA SRP TACO Other:	

P.O. No.:
Quote No.:
Turn Around:
Results Needed:
am pm

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab.	Preserv.	No. of Containers	Remarks			Lab No.:			
								70 minutes, -10" Hg left	68 minutes, -5" Hg left	60 minutes, -4" left				
SV1	9/19/2018	9:10	Soil Vapor		X	N/A	1	X	X					001
SV2	}	9:30	}	}	}	}	}	X	X					002
SV4		11:20						X	X					003
SV5		9:40						X	X					004

Relinquished By: (Signature)	Date/Time: 9/20/2018 11:26	<b>Laboratory Use:</b>	<b>Sample Verification:</b>	<b>Work Order No.:</b>
Received By: (Signature)	Date/Time: 9/20/18 11:28	- Container OK	Yes <input type="checkbox"/> No <input type="checkbox"/>	18090717
Relinquished By: (Signature)	Date/Time: 9/20/18 14:00	- Samples Leaking	Yes <input type="checkbox"/> No <input type="checkbox"/>	Preservation Code:
Received By: (Signature)	Date/Time: 9/20/18 14:30	- Refrigerated (Temp: 4°C)	Yes <input type="checkbox"/> No <input type="checkbox"/>	A = None B = HNO C = NaOH
Relinquished By: (Signature)	Date/Time:	- Sample Labels Match Sample ID	Yes <input type="checkbox"/> No <input type="checkbox"/>	D = H <sub>2</sub> SO <sub>4</sub> E = HCl F = 5035/EnCore

Sample Receipt Checklist

Client Name HYDRODYNAMICS

Date and Time Received: 9/20/2018 2:30:00 PM

Work Order Number 18090717

Received by: EAA

Checklist completed by: [Signature] 9/20/18  
Signature Date

Reviewed by: [Initials] 9/21/18  
Initials Date

Matrix: Carrier name STAT Analysis

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels/containers? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Container or Temp Blank temperature in compliance? Yes  No  Temperature Ambient °C
- Water - VOA vials have zero headspace? No VOA vials submitted  Yes  No
- Water - Samples pH checked? Yes  No  Checked by: \_\_\_\_\_
- Water - Samples properly preserved? Yes  No  pH Adjusted? \_\_\_\_\_

Any No response must be detailed in the comments section below.

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Client / Person contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Response: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**STAT** Analysis Corporation

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December 29, 2018

Hydrodynamics Consultant, Inc.  
5403 Patton Drive  
Lisle, IL 60532

Telephone: (630) 724-0098  
Fax: (800) 881-2051

Analytical Report for STAT Work Order: 18120638 Revision 0

RE: Westwood Cleaners, 8731 West North Avenue, Wauwatosa, WI 53226

Dear Mike Wan:

STAT Analysis received 8 samples for the referenced project on 12/19/2018 6:15:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAP standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Justice Kwateng  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

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**Client:** Hydrodynamics Consultant, Inc.**Project:** Westwood Cleaners, 8731 West North Avenue, Wauwa**Work Order Sample Summary****Work Order:** 18120638 Revision 0

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Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
18120638-001A	MW1-2		12/18/2018 12:20:00 PM	12/19/2018
18120638-002A	MW2-2		12/18/2018 12:55:00 PM	12/19/2018
18120638-003A	MW3-2		12/18/2018 1:20:00 PM	12/19/2018
18120638-004A	MW4-2		12/18/2018 1:45:00 PM	12/19/2018
18120638-005A	MW5-2		12/18/2018 2:10:00 PM	12/19/2018
18120638-006A	MW6-2		12/18/2018 2:35:00 PM	12/19/2018
18120638-007A	MW6-2 D		12/18/2018 2:40:00 PM	12/19/2018
18120638-008A	MW-TB		12/18/2018 9:30:00 PM	12/19/2018

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Date Reported: December 29, 2018

**ANALYTICAL RESULTS**

Date Printed: December 29, 2018

CLIENT: Hydrodynamics Consultant, Inc.

Client Sample ID: MW1-2

Work Order: 18120638 Revision 0

Collection Date: 12/18/2018 12:20:00 PM

Project: Westwood Cleaners, 8731 West North Avenue, Wauw

Matrix: AQUEOUS

Lab ID: 18120638-001

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS**

SW8260B (SW5030B)

Prep Date:

Analyst: MJK

Acetone	ND	0.020	0.0031		mg/L	1	12/22/2018
Benzene	ND	0.0050	0.0002		mg/L	1	12/22/2018
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	12/22/2018
Bromoform	ND	0.0050	0.0003		mg/L	1	12/22/2018
Bromomethane	ND	0.010	0.002		mg/L	1	12/22/2018
2-Butanone	ND	0.020	0.0016		mg/L	1	12/22/2018
Carbon disulfide	ND	0.010	0.0003		mg/L	1	12/22/2018
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	12/22/2018
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	12/22/2018
Chloroethane	ND	0.010	0.0005		mg/L	1	12/22/2018
Chloroform	ND	0.0050	0.0001		mg/L	1	12/22/2018
Chloromethane	ND	0.010	0.0003		mg/L	1	12/22/2018
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	12/22/2018
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	12/22/2018
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	12/22/2018
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	12/22/2018
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	12/22/2018
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	12/22/2018
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	12/22/2018
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	12/22/2018
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	12/22/2018
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	12/22/2018
2-Hexanone	ND	0.020	0.0002		mg/L	1	12/22/2018
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	12/22/2018
Methylene chloride	ND	0.0050	0.0002		mg/L	1	12/22/2018
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	12/22/2018
Styrene	ND	0.0050	0.0003		mg/L	1	12/22/2018
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	12/22/2018
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	12/22/2018
Toluene	ND	0.0050	0.0004		mg/L	1	12/22/2018
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	12/22/2018
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	12/22/2018
Trichloroethene	ND	0.0050	0.0003		mg/L	1	12/22/2018
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	12/22/2018
Xylenes, Total	ND	0.015	0.001		mg/L	1	12/22/2018

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below reporting limit

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL/MDL - Reporting Limit / Method Detection Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 29, 2018

**ANALYTICAL RESULTS**

Date Printed: December 29, 2018

CLIENT: Hydrodynamics Consultant, Inc.

Work Order: 18120638 Revision 0

Project: Westwood Cleaners, 8731 West North Avenue, Wauw

Lab ID: 18120638-002

Client Sample ID: MW2-2

Collection Date: 12/18/2018 12:55:00 PM

Matrix: AQUEOUS

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260B (SW5030B)</b>			Prep Date:	Analyst: <b>MJK</b>		
Acetone	ND	0.020	0.0031		mg/L	1	12/22/2018
Benzene	ND	0.0050	0.0002		mg/L	1	12/22/2018
Bromodichloromethane	0.0014	0.0050	0.0002	J	mg/L	1	12/22/2018
Bromoform	ND	0.0050	0.0003		mg/L	1	12/22/2018
Bromomethane	ND	0.010	0.002		mg/L	1	12/22/2018
2-Butanone	ND	0.020	0.0016		mg/L	1	12/22/2018
Carbon disulfide	ND	0.010	0.0003		mg/L	1	12/22/2018
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	12/22/2018
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	12/22/2018
Chloroethane	ND	0.010	0.0005		mg/L	1	12/22/2018
Chloroform	0.0013	0.0050	0.0001	J	mg/L	1	12/22/2018
Chloromethane	ND	0.010	0.0003		mg/L	1	12/22/2018
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	12/22/2018
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	12/22/2018
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	12/22/2018
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	12/22/2018
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	12/22/2018
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	12/22/2018
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	12/22/2018
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	12/22/2018
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	12/22/2018
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	12/22/2018
2-Hexanone	ND	0.020	0.0002		mg/L	1	12/22/2018
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	12/22/2018
Methylene chloride	ND	0.0050	0.0002		mg/L	1	12/22/2018
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	12/22/2018
Styrene	ND	0.0050	0.0003		mg/L	1	12/22/2018
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	12/22/2018
Tetrachloroethene	0.012	0.0050	0.0003		mg/L	1	12/22/2018
Toluene	ND	0.0050	0.0004		mg/L	1	12/22/2018
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	12/22/2018
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	12/22/2018
Trichloroethene	ND	0.0050	0.0003		mg/L	1	12/22/2018
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	12/22/2018
Xylenes, Total	ND	0.015	0.001		mg/L	1	12/22/2018

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL/MDL - Reporting Limit / Method Detection Limit for the analysis
	J - Analyte detected below reporting limit	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Date Reported: December 29, 2018

**ANALYTICAL RESULTS**

Date Printed: December 29, 2018

CLIENT: Hydrodynamics Consultant, Inc.

Client Sample ID: MW3-2

Work Order: 18120638 Revision 0

Collection Date: 12/18/2018 1:20:00 PM

Project: Westwood Cleaners, 8731 West North Avenue, Wauw

Matrix: AQUEOUS

Lab ID: 18120638-003

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260B (SW5030B)</b>			Prep Date:	Analyst: <b>MJK</b>		
Acetone	ND	0.020	0.0031		mg/L	1	12/22/2018
Benzene	ND	0.0050	0.0002		mg/L	1	12/22/2018
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	12/22/2018
Bromoform	ND	0.0050	0.0003		mg/L	1	12/22/2018
Bromomethane	ND	0.010	0.002		mg/L	1	12/22/2018
2-Butanone	ND	0.020	0.0016		mg/L	1	12/22/2018
Carbon disulfide	ND	0.010	0.0003		mg/L	1	12/22/2018
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	12/22/2018
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	12/22/2018
Chloroethane	ND	0.010	0.0005		mg/L	1	12/22/2018
Chloroform	ND	0.0050	0.0001		mg/L	1	12/22/2018
Chloromethane	ND	0.010	0.0003		mg/L	1	12/22/2018
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	12/22/2018
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	12/22/2018
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	12/22/2018
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	12/22/2018
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	12/22/2018
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	12/22/2018
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	12/22/2018
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	12/22/2018
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	12/22/2018
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	12/22/2018
2-Hexanone	ND	0.020	0.0002		mg/L	1	12/22/2018
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	12/22/2018
Methylene chloride	ND	0.0050	0.0002		mg/L	1	12/22/2018
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	12/22/2018
Styrene	ND	0.0050	0.0003		mg/L	1	12/22/2018
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	12/22/2018
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	12/22/2018
Toluene	ND	0.0050	0.0004		mg/L	1	12/22/2018
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	12/22/2018
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	12/22/2018
Trichloroethene	ND	0.0050	0.0003		mg/L	1	12/22/2018
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	12/22/2018
Xylenes, Total	ND	0.015	0.001		mg/L	1	12/22/2018

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL/MDL - Reporting Limit / Method Detection Limit for the analysis
	J - Analyte detected below reporting limit	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 29, 2018

**ANALYTICAL RESULTS**

Date Printed: December 29, 2018

CLIENT: Hydrodynamics Consultant, Inc.

Client Sample ID: MW4-2

Work Order: 18120638 Revision 0

Collection Date: 12/18/2018 1:45:00 PM

Project: Westwood Cleaners, 8731 West North Avenue, Wauw

Matrix: AQUEOUS

Lab ID: 18120638-004

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS**

SW8260B (SW5030B)

Prep Date:

Analyst: MJK

Acetone	ND	0.020	0.0031		mg/L	1	12/22/2018
Benzene	ND	0.0050	0.0002		mg/L	1	12/22/2018
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	12/22/2018
Bromoform	ND	0.0050	0.0003		mg/L	1	12/22/2018
Bromomethane	ND	0.010	0.002		mg/L	1	12/22/2018
2-Butanone	ND	0.020	0.0016		mg/L	1	12/22/2018
Carbon disulfide	ND	0.010	0.0003		mg/L	1	12/22/2018
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	12/22/2018
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	12/22/2018
Chloroethane	ND	0.010	0.0005		mg/L	1	12/22/2018
Chloroform	ND	0.0050	0.0001		mg/L	1	12/22/2018
Chloromethane	ND	0.010	0.0003		mg/L	1	12/22/2018
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	12/22/2018
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	12/22/2018
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	12/22/2018
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	12/22/2018
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	12/22/2018
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	12/22/2018
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	12/22/2018
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	12/22/2018
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	12/22/2018
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	12/22/2018
2-Hexanone	ND	0.020	0.0002		mg/L	1	12/22/2018
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	12/22/2018
Methylene chloride	ND	0.0050	0.0002		mg/L	1	12/22/2018
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	12/22/2018
Styrene	ND	0.0050	0.0003		mg/L	1	12/22/2018
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	12/22/2018
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	12/22/2018
Toluene	ND	0.0050	0.0004		mg/L	1	12/22/2018
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	12/22/2018
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	12/22/2018
Trichloroethene	ND	0.0050	0.0003		mg/L	1	12/22/2018
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	12/22/2018
Xylenes, Total	ND	0.015	0.001		mg/L	1	12/22/2018

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below reporting limit

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL/MDL - Reporting Limit / Method Detection Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 29, 2018

**ANALYTICAL RESULTS**

Date Printed: December 29, 2018

CLIENT: Hydrodynamics Consultant, Inc.

Client Sample ID: MW5-2

Work Order: 18120638 Revision 0

Collection Date: 12/18/2018 2:10:00 PM

Project: Westwood Cleaners, 8731 West North Avenue, Wauw

Matrix: AQUEOUS

Lab ID: 18120638-005

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>			<b>SW8260B (SW5030B)</b>				Prep Date: Analyst: <b>MJK</b>
Acetone	ND	0.020	0.0031		mg/L	1	12/22/2018
Benzene	ND	0.0050	0.0002		mg/L	1	12/22/2018
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	12/22/2018
Bromoform	ND	0.0050	0.0003		mg/L	1	12/22/2018
Bromomethane	ND	0.010	0.002		mg/L	1	12/22/2018
2-Butanone	ND	0.020	0.0016		mg/L	1	12/22/2018
Carbon disulfide	ND	0.010	0.0003		mg/L	1	12/22/2018
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	12/22/2018
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	12/22/2018
Chloroethane	ND	0.010	0.0005		mg/L	1	12/22/2018
Chloroform	ND	0.0050	0.0001		mg/L	1	12/22/2018
Chloromethane	ND	0.010	0.0003		mg/L	1	12/22/2018
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	12/22/2018
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	12/22/2018
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	12/22/2018
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	12/22/2018
cis-1,2-Dichloroethene	0.029	0.0050	0.0002		mg/L	1	12/22/2018
trans-1,2-Dichloroethene	0.0051	0.0050	0.0005		mg/L	1	12/22/2018
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	12/22/2018
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	12/22/2018
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	12/22/2018
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	12/22/2018
2-Hexanone	ND	0.020	0.0002		mg/L	1	12/22/2018
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	12/22/2018
Methylene chloride	ND	0.0050	0.0002		mg/L	1	12/22/2018
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	12/22/2018
Styrene	ND	0.0050	0.0003		mg/L	1	12/22/2018
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	12/22/2018
Tetrachloroethene	0.066	0.0050	0.0003		mg/L	1	12/27/2018
Toluene	ND	0.0050	0.0004		mg/L	1	12/22/2018
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	12/22/2018
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	12/22/2018
Trichloroethene	0.14	0.0050	0.0003		mg/L	1	12/22/2018
Vinyl chloride	0.025	0.0020	0.0003		mg/L	1	12/22/2018
Xylenes, Total	ND	0.015	0.001		mg/L	1	12/22/2018

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below reporting limit

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL/MDL - Reporting Limit / Method Detection Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 29, 2018

**ANALYTICAL RESULTS**

Date Printed: December 29, 2018

CLIENT: Hydrodynamics Consultant, Inc.

Client Sample ID: MW6-2

Work Order: 18120638 Revision 0

Collection Date: 12/18/2018 2:35:00 PM

Project: Westwood Cleaners, 8731 West North Avenue, Wauw

Matrix: AQUEOUS

Lab ID: 18120638-006

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS**

SW8260B (SW5030B)

Prep Date:

Analyst: MJK

Acetone	ND	0.020	0.0031		mg/L	1	12/22/2018
Benzene	ND	0.0050	0.0002		mg/L	1	12/22/2018
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	12/22/2018
Bromoform	ND	0.0050	0.0003		mg/L	1	12/22/2018
Bromomethane	ND	0.010	0.002		mg/L	1	12/22/2018
2-Butanone	ND	0.020	0.0016		mg/L	1	12/22/2018
Carbon disulfide	ND	0.010	0.0003		mg/L	1	12/22/2018
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	12/22/2018
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	12/22/2018
Chloroethane	ND	0.010	0.0005		mg/L	1	12/22/2018
Chloroform	ND	0.0050	0.0001		mg/L	1	12/22/2018
Chloromethane	ND	0.010	0.0003		mg/L	1	12/22/2018
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	12/22/2018
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	12/22/2018
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	12/22/2018
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	12/22/2018
cis-1,2-Dichloroethene	0.017	0.0050	0.0002		mg/L	1	12/22/2018
trans-1,2-Dichloroethene	0.0030	0.0050	0.0005	J	mg/L	1	12/22/2018
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	12/22/2018
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	12/22/2018
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	12/22/2018
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	12/22/2018
2-Hexanone	ND	0.020	0.0002		mg/L	1	12/22/2018
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	12/22/2018
Methylene chloride	ND	0.0050	0.0002		mg/L	1	12/22/2018
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	12/22/2018
Styrene	ND	0.0050	0.0003		mg/L	1	12/22/2018
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	12/22/2018
Tetrachloroethene	0.069	0.0050	0.0003		mg/L	1	12/27/2018
Toluene	ND	0.0050	0.0004		mg/L	1	12/22/2018
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	12/22/2018
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	12/22/2018
Trichloroethene	0.036	0.0050	0.0003		mg/L	1	12/22/2018
Vinyl chloride	0.0022	0.0020	0.0003		mg/L	1	12/22/2018
Xylenes, Total	ND	0.015	0.001		mg/L	1	12/22/2018

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below reporting limit

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL/MDL - Reporting Limit / Method Detection Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded



**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 29, 2018

**ANALYTICAL RESULTS**

Date Printed: December 29, 2018

CLIENT: Hydrodynamics Consultant, Inc.

Client Sample ID: MW6-2 D

Work Order: 18120638 Revision 0

Collection Date: 12/18/2018 2:40:00 PM

Project: Westwood Cleaners, 8731 West North Avenue, Wauw

Matrix: AQUEOUS

Lab ID: 18120638-007

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW8260B (SW5030B)</b>		Prep Date:		Analyst: <b>MJK</b>	
Acetone	ND	0.020	0.0031		mg/L	1	12/22/2018
Benzene	ND	0.0050	0.0002		mg/L	1	12/22/2018
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	12/22/2018
Bromoform	ND	0.0050	0.0003		mg/L	1	12/22/2018
Bromomethane	ND	0.010	0.002		mg/L	1	12/22/2018
2-Butanone	ND	0.020	0.0016		mg/L	1	12/22/2018
Carbon disulfide	ND	0.010	0.0003		mg/L	1	12/22/2018
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	12/22/2018
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	12/22/2018
Chloroethane	ND	0.010	0.0005		mg/L	1	12/22/2018
Chloroform	ND	0.0050	0.0001		mg/L	1	12/22/2018
Chloromethane	ND	0.010	0.0003		mg/L	1	12/22/2018
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	12/22/2018
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	12/22/2018
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	12/22/2018
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	12/22/2018
cis-1,2-Dichloroethene	0.013	0.0050	0.0002		mg/L	1	12/22/2018
trans-1,2-Dichloroethene	0.0029	0.0050	0.0005	J	mg/L	1	12/22/2018
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	12/22/2018
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	12/22/2018
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	12/22/2018
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	12/22/2018
2-Hexanone	ND	0.020	0.0002		mg/L	1	12/22/2018
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	12/22/2018
Methylene chloride	ND	0.0050	0.0002		mg/L	1	12/22/2018
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	12/22/2018
Styrene	ND	0.0050	0.0003		mg/L	1	12/22/2018
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	12/22/2018
Tetrachloroethene	0.078	0.0050	0.0003		mg/L	1	12/27/2018
Toluene	ND	0.0050	0.0004		mg/L	1	12/22/2018
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	12/22/2018
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	12/22/2018
Trichloroethene	0.041	0.0050	0.0003		mg/L	1	12/22/2018
Vinyl chloride	0.0024	0.0020	0.0003		mg/L	1	12/22/2018
Xylenes, Total	ND	0.015	0.001		mg/L	1	12/22/2018

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below reporting limit

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL/MDL - Reporting Limit / Method Detection Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 29, 2018

**ANALYTICAL RESULTS**

Date Printed: December 29, 2018

CLIENT: Hydrodynamics Consultant, Inc.

Client Sample ID: MW-TB

Work Order: 18120638 Revision 0

Collection Date: 12/18/2018 9:30:00 PM

Project: Westwood Cleaners, 8731 West North Avenue, Wauw

Matrix: AQUEOUS

Lab ID: 18120638-008

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>			<b>SW8260B (SW5030B)</b>				Prep Date: Analyst: <b>MJK</b>
Acetone	ND	0.020	0.0031		mg/L	1	12/22/2018
Benzene	ND	0.0050	0.0002		mg/L	1	12/22/2018
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	12/22/2018
Bromoform	ND	0.0050	0.0003		mg/L	1	12/22/2018
Bromomethane	ND	0.010	0.002		mg/L	1	12/22/2018
2-Butanone	ND	0.020	0.0016		mg/L	1	12/22/2018
Carbon disulfide	ND	0.010	0.0003		mg/L	1	12/22/2018
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	12/22/2018
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	12/22/2018
Chloroethane	ND	0.010	0.0005		mg/L	1	12/22/2018
Chloroform	ND	0.0050	0.0001		mg/L	1	12/22/2018
Chloromethane	0.0021	0.010	0.0003	J	mg/L	1	12/22/2018
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	12/22/2018
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	12/22/2018
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	12/22/2018
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	12/22/2018
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	12/22/2018
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	12/22/2018
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	12/22/2018
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	12/22/2018
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	12/22/2018
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	12/22/2018
2-Hexanone	ND	0.020	0.0002		mg/L	1	12/22/2018
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	12/22/2018
Methylene chloride	ND	0.0050	0.0002		mg/L	1	12/22/2018
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	12/22/2018
Styrene	ND	0.0050	0.0003		mg/L	1	12/22/2018
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	12/22/2018
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	12/22/2018
Toluene	ND	0.0050	0.0004		mg/L	1	12/22/2018
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	12/22/2018
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	12/22/2018
Trichloroethene	ND	0.0050	0.0003		mg/L	1	12/22/2018
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	12/22/2018
Xylenes, Total	ND	0.015	0.001		mg/L	1	12/22/2018

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below reporting limit

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL/MDL - Reporting Limit / Method Detection Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

# STAT Analysis Corporation

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## CHAIN OF CUSTODY RECORD

No.          of          Page:         

Company: <b>Hydrodynamics Consultant, Inc.</b> Project Number: _____ Project Name: <b>Westwood Cleaners</b> Location/Address: <b>8731 West North Avenue, Wauwatosa, WI 53226</b> Sampler(s): <b>Mike Wan</b>	P.O. No.: _____ Quote No.: _____
Report To: <b>Mike Wan</b> Phone: <b>(630) 724-0098</b> QC Level: <u>1</u> <u>2</u> <u>3</u> <u>4</u> Fax: <b>(800) 881-2051</b>	
Regulatory Program: <b>NPEDS/MWRD RCRA SDWA SRP TACO Other:</b>	

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab.	Preserv.	No. of Containers	VOCs	Remarks	Lab No.:	Turn Around:	Results Needed:
											am	pm
MW1-2	12/18/2018	12:20	Water		X	HCL	2					
MW2-2		12:55								001		
MW3-2		1:20								002		
MW4-2		1:45								003		
MW5-2		2:10								004		
MW6-2		2:35								005		
MW6-2D		2:40								006		
MW-TB		9:30								007		
										008		
										009		
										005		
										006		
										007		
										008		
										009		
										004		

Relinquished By: (Signature) _____ Received By: (Signature) _____ Relinquished By: (Signature) _____ Received By: (Signature) _____ Relinquished By: (Signature) _____	Date/Time: <u>12/19/2018</u> Date/Time: <u>12/19/18</u> Date/Time: <u>12/19/18</u> Date/Time: <u>12/19/18</u>	Sample Verification: Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	Laboratory Use: <input type="checkbox"/> - Container OK <input type="checkbox"/> - Samples Leaking <input checked="" type="checkbox"/> - Refrigerated (Temp: <u>3.9</u> °C) <input type="checkbox"/> - Sample Labels Match Sample ID	Work Order No.: <u>18120638</u> Preservation Code: A = None    B = HNO <sub>3</sub> C = NaOH D = H <sub>2</sub> SO <sub>4</sub> E = HCl    F = 5035/EnCore
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### Sample Receipt Checklist

Client Name HYDRODYNAMICS

Date and Time Received: 12/19/2018 6:15:00 PM

Work Order Number 18120638

Received by: CHB

Checklist completed by: [Signature] 12/19/18  
Signature Date

Reviewed by: Bm 12/19/18  
Initials Date

Matrix: Carrier name STAT Analysis

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels/containers? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Container or Temp Blank temperature in compliance? Yes  No  Temperature 3.9 °C
- Water - VOA vials have zero headspace? No VOA vials submitted  Yes  No
- Water - Samples pH checked? Yes  No  Checked by: \_\_\_\_\_
- Water - Samples properly preserved? Yes  No  pH Adjusted? \_\_\_\_\_

Any No response must be detailed in the comments section below.

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Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Client / Person contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Response: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

March 19, 2019

Hydrodynamics Consultant, Inc.  
5403 Patton Drive  
Lisle, IL 60532

Telephone: (630) 724-0098  
Fax: (800) 881-2051

Analytical Report for STAT Work Order: 19030343 Revision 0

RE: Westwood Cleaners, 8731 West North Ave., Wauwatosa, WI 53226

Dear Dr. Yong Yu:

STAT Analysis received 8 samples for the referenced project on 3/11/2019 5:22:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements specified in WI DNR Chapter NR 149 (Certification Number 399099910). Analyses were performed in accordance with methods as referenced on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. A listing of accredited methods/parameters can also be provided.

For sample results requiring adjustment for dilutions, the detection and reporting limits are adjusted for the corresponding dilution factor. Analytical results expressed on a dry weight basis have units of mg/Kg-dry or  $\mu\text{g}/\text{Kg-dry}$  on the analytical report. Corresponding reporting limits are adjusted for dry weight.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Brandon Young  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples as received and tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

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**Client:** Hydrodynamics Consultant, Inc.**Project:** Westwood Cleaners, 8731 West North Ave., Wauwatos **Work Order Sample Summary****Work Order:** 19030343 Revision 0

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<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
19030343-001A	MW 1-3		3/8/2019 12:31:00 PM	3/11/2019
19030343-002A	MW 2-3		3/8/2019 12:46:00 PM	3/11/2019
19030343-003A	MW 3-3		3/8/2019 1:02:00 PM	3/11/2019
19030343-004A	MW 4-3		3/8/2019 1:20:00 PM	3/11/2019
19030343-005A	MW 5-3		3/8/2019 1:38:00 PM	3/11/2019
19030343-006A	MW 5-3D		3/8/2019 1:49:00 PM	3/11/2019
19030343-007A	MW 6-3		3/8/2019 2:06:00 PM	3/11/2019
19030343-008A	MW -TB		3/8/2019 8:55:00 AM	3/11/2019

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Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Report Date: March 19, 2019

**ANALYTICAL RESULTS**

Print Date: March 19, 2019

CLIENT: Hydrodynamics Consultant, Inc.

Client Sample ID: MW 1-3

Work Order: 19030343 Revision 0

Tag Number:

Project: Westwood Cleaners, 8731 West North Ave., Wauwatosa,

Collection Date: 3/8/2019 12:31:00 PM

Lab ID: 19030343-001A

Matrix: AQUEOUS

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS****SW8260B (SW5030B)**

Prep Date:

Analyst: MJK

Acetone	ND	0.020	0.0031		mg/L	1	3/12/2019
Benzene	ND	0.0050	0.0002		mg/L	1	3/12/2019
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	3/12/2019
Bromoform	ND	0.0050	0.0003		mg/L	1	3/12/2019
Bromomethane	ND	0.010	0.002		mg/L	1	3/12/2019
2-Butanone	ND	0.020	0.0016		mg/L	1	3/12/2019
Carbon disulfide	ND	0.010	0.0003		mg/L	1	3/12/2019
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	3/12/2019
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	3/12/2019
Chloroethane	ND	0.010	0.0005		mg/L	1	3/12/2019
Chloroform	ND	0.0050	0.0001		mg/L	1	3/12/2019
Chloromethane	ND	0.010	0.0003		mg/L	1	3/12/2019
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	3/12/2019
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	3/12/2019
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	3/12/2019
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	3/12/2019
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	3/12/2019
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	3/12/2019
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	3/12/2019
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	3/12/2019
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	3/12/2019
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	3/12/2019
2-Hexanone	ND	0.020	0.0002		mg/L	1	3/12/2019
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	3/12/2019
Methylene chloride	ND	0.0050	0.0002		mg/L	1	3/12/2019
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	3/12/2019
Styrene	ND	0.0050	0.0003		mg/L	1	3/12/2019
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	3/12/2019
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	3/12/2019
Toluene	ND	0.0050	0.0004		mg/L	1	3/12/2019
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	3/12/2019
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	3/12/2019
Trichloroethene	ND	0.0050	0.0003		mg/L	1	3/12/2019
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	3/12/2019
Xylenes, Total	ND	0.015	0.001		mg/L	1	3/12/2019

ND - Not Detected at the LOD

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

**Qualifiers:**

J - Analyte detected below LOQ

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

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Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Report Date: March 19, 2019

**ANALYTICAL RESULTS**

Print Date: March 19, 2019

CLIENT: Hydrodynamics Consultant, Inc.

Client Sample ID: MW 2-3

Work Order: 19030343 Revision 0

Tag Number:

Project: Westwood Cleaners, 8731 West North Ave., Wauwatosa,

Collection Date: 3/8/2019 12:46:00 PM

Lab ID: 19030343-002A

Matrix: AQUEOUS

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS**

SW8260B (SW5030B)

Prep Date:

Analyst: MJK

Acetone	ND	0.020	0.0031		mg/L	1	3/12/2019
Benzene	ND	0.0050	0.0002		mg/L	1	3/12/2019
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	3/12/2019
Bromoform	ND	0.0050	0.0003		mg/L	1	3/12/2019
Bromomethane	ND	0.010	0.002		mg/L	1	3/12/2019
2-Butanone	ND	0.020	0.0016		mg/L	1	3/12/2019
Carbon disulfide	ND	0.010	0.0003		mg/L	1	3/12/2019
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	3/12/2019
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	3/12/2019
Chloroethane	ND	0.010	0.0005		mg/L	1	3/12/2019
Chloroform	ND	0.0050	0.0001		mg/L	1	3/12/2019
Chloromethane	ND	0.010	0.0003		mg/L	1	3/12/2019
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	3/12/2019
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	3/12/2019
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	3/12/2019
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	3/12/2019
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	3/12/2019
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	3/12/2019
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	3/12/2019
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	3/12/2019
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	3/12/2019
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	3/12/2019
2-Hexanone	ND	0.020	0.0002		mg/L	1	3/12/2019
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	3/12/2019
Methylene chloride	ND	0.0050	0.0002		mg/L	1	3/12/2019
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	3/12/2019
Styrene	ND	0.0050	0.0003		mg/L	1	3/12/2019
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	3/12/2019
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	3/12/2019
Toluene	ND	0.0050	0.0004		mg/L	1	3/12/2019
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	3/12/2019
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	3/12/2019
Trichloroethene	ND	0.0050	0.0003		mg/L	1	3/12/2019
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	3/12/2019
Xylenes, Total	ND	0.015	0.001		mg/L	1	3/12/2019

ND - Not Detected at the LOD

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

**Qualifiers:**

J - Analyte detected below LOQ

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded



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Report Date: March 19, 2019

**ANALYTICAL RESULTS**

Print Date: March 19, 2019

CLIENT: Hydrodynamics Consultant, Inc.

Client Sample ID: MW 3-3

Work Order: 19030343 Revision 0

Tag Number:

Project: Westwood Cleaners, 8731 West North Ave., Wauwatosa,

Collection Date: 3/8/2019 1:02:00 PM

Lab ID: 19030343-003A

Matrix: AQUEOUS

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS****SW8260B (SW5030B)**

Prep Date:

Analyst: MJK

Acetone	ND	0.020	0.0031		mg/L	1	3/12/2019
Benzene	ND	0.0050	0.0002		mg/L	1	3/12/2019
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	3/12/2019
Bromoform	ND	0.0050	0.0003		mg/L	1	3/12/2019
Bromomethane	ND	0.010	0.002		mg/L	1	3/12/2019
2-Butanone	ND	0.020	0.0016		mg/L	1	3/12/2019
Carbon disulfide	ND	0.010	0.0003		mg/L	1	3/12/2019
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	3/12/2019
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	3/12/2019
Chloroethane	ND	0.010	0.0005		mg/L	1	3/12/2019
Chloroform	ND	0.0050	0.0001		mg/L	1	3/12/2019
Chloromethane	ND	0.010	0.0003		mg/L	1	3/12/2019
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	3/12/2019
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	3/12/2019
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	3/12/2019
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	3/12/2019
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	3/12/2019
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	3/12/2019
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	3/12/2019
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	3/12/2019
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	3/12/2019
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	3/12/2019
2-Hexanone	ND	0.020	0.0002		mg/L	1	3/12/2019
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	3/12/2019
Methylene chloride	ND	0.0050	0.0002		mg/L	1	3/12/2019
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	3/12/2019
Styrene	ND	0.0050	0.0003		mg/L	1	3/12/2019
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	3/12/2019
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	3/12/2019
Toluene	ND	0.0050	0.0004		mg/L	1	3/12/2019
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	3/12/2019
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	3/12/2019
Trichloroethene	ND	0.0050	0.0003		mg/L	1	3/12/2019
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	3/12/2019
Xylenes, Total	ND	0.015	0.001		mg/L	1	3/12/2019

ND - Not Detected at the LOD

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

**Qualifiers:**

J - Analyte detected below LOQ

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

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Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Report Date: March 19, 2019

**ANALYTICAL RESULTS**

Print Date: March 19, 2019

CLIENT: Hydrodynamics Consultant, Inc.

Client Sample ID: MW 4-3

Work Order: 19030343 Revision 0

Tag Number:

Project: Westwood Cleaners, 8731 West North Ave., Wauwatosa,

Collection Date: 3/8/2019 1:20:00 PM

Lab ID: 19030343-004A

Matrix: AQUEOUS

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS**

SW8260B (SW5030B)

Prep Date:

Analyst: MJK

Acetone	ND	0.020	0.0031		mg/L	1	3/12/2019
Benzene	ND	0.0050	0.0002		mg/L	1	3/12/2019
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	3/12/2019
Bromoform	ND	0.0050	0.0003		mg/L	1	3/12/2019
Bromomethane	ND	0.010	0.002		mg/L	1	3/12/2019
2-Butanone	ND	0.020	0.0016		mg/L	1	3/12/2019
Carbon disulfide	ND	0.010	0.0003		mg/L	1	3/12/2019
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	3/12/2019
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	3/12/2019
Chloroethane	ND	0.010	0.0005		mg/L	1	3/12/2019
Chloroform	ND	0.0050	0.0001		mg/L	1	3/12/2019
Chloromethane	ND	0.010	0.0003		mg/L	1	3/12/2019
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	3/12/2019
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	3/12/2019
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	3/12/2019
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	3/12/2019
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	3/12/2019
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	3/12/2019
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	3/12/2019
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	3/12/2019
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	3/12/2019
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	3/12/2019
2-Hexanone	ND	0.020	0.0002		mg/L	1	3/12/2019
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	3/12/2019
Methylene chloride	ND	0.0050	0.0002		mg/L	1	3/12/2019
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	3/12/2019
Styrene	ND	0.0050	0.0003		mg/L	1	3/12/2019
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	3/12/2019
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	3/12/2019
Toluene	ND	0.0050	0.0004		mg/L	1	3/12/2019
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	3/12/2019
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	3/12/2019
Trichloroethene	ND	0.0050	0.0003		mg/L	1	3/12/2019
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	3/12/2019
Xylenes, Total	ND	0.015	0.001		mg/L	1	3/12/2019

**Qualifiers:**

ND - Not Detected at the LOD

J - Analyte detected below LOQ

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Report Date: March 19, 2019

**ANALYTICAL RESULTS**

Print Date: March 19, 2019

CLIENT: Hydrodynamics Consultant, Inc.

Client Sample ID: MW 5-3

Work Order: 19030343 Revision 0

Tag Number:

Project: Westwood Cleaners, 8731 West North Ave., Wauwatosa,

Collection Date: 3/8/2019 1:38:00 PM

Lab ID: 19030343-005A

Matrix: AQUEOUS

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS**

SW8260B (SW5030B)

Prep Date:

Analyst: MJK

Acetone	ND	0.020	0.0031		mg/L	1	3/12/2019
Benzene	ND	0.0050	0.0002		mg/L	1	3/12/2019
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	3/12/2019
Bromoform	ND	0.0050	0.0003		mg/L	1	3/12/2019
Bromomethane	ND	0.010	0.002		mg/L	1	3/12/2019
2-Butanone	ND	0.020	0.0016		mg/L	1	3/12/2019
Carbon disulfide	ND	0.010	0.0003		mg/L	1	3/12/2019
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	3/12/2019
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	3/12/2019
Chloroethane	ND	0.010	0.0005		mg/L	1	3/12/2019
Chloroform	ND	0.0050	0.0001		mg/L	1	3/12/2019
Chloromethane	ND	0.010	0.0003		mg/L	1	3/12/2019
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	3/12/2019
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	3/12/2019
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	3/12/2019
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	3/12/2019
cis-1,2-Dichloroethene	0.015	0.0050	0.0002		mg/L	1	3/12/2019
trans-1,2-Dichloroethene	0.0022	0.0050	0.0005	J	mg/L	1	3/12/2019
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	3/12/2019
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	3/12/2019
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	3/12/2019
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	3/12/2019
2-Hexanone	ND	0.020	0.0002		mg/L	1	3/12/2019
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	3/12/2019
Methylene chloride	ND	0.0050	0.0002		mg/L	1	3/12/2019
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	3/12/2019
Styrene	ND	0.0050	0.0003		mg/L	1	3/12/2019
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	3/12/2019
Tetrachloroethene	0.27	0.0050	0.0003		mg/L	1	3/12/2019
Toluene	ND	0.0050	0.0004		mg/L	1	3/12/2019
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	3/12/2019
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	3/12/2019
Trichloroethene	0.075	0.0050	0.0003		mg/L	1	3/12/2019
Vinyl chloride	0.012	0.0020	0.0003		mg/L	1	3/12/2019
Xylenes, Total	ND	0.015	0.001		mg/L	1	3/12/2019

**Qualifiers:**

ND - Not Detected at the LOD

J - Analyte detected below LOQ

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Report Date: March 19, 2019

**ANALYTICAL RESULTS**

Print Date: March 19, 2019

CLIENT: Hydrodynamics Consultant, Inc.

Client Sample ID: MW 5-3D

Work Order: 19030343 Revision 0

Tag Number:

Project: Westwood Cleaners, 8731 West North Ave., Wauwatosa,

Collection Date: 3/8/2019 1:49:00 PM

Lab ID: 19030343-006A

Matrix: AQUEOUS

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS**

SW8260B (SW5030B)

Prep Date:

Analyst: MJK

Acetone	ND	0.020	0.0031		mg/L	1	3/12/2019
Benzene	ND	0.0050	0.0002		mg/L	1	3/12/2019
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	3/12/2019
Bromoform	ND	0.0050	0.0003		mg/L	1	3/12/2019
Bromomethane	ND	0.010	0.002		mg/L	1	3/12/2019
2-Butanone	ND	0.020	0.0016		mg/L	1	3/12/2019
Carbon disulfide	ND	0.010	0.0003		mg/L	1	3/12/2019
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	3/12/2019
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	3/12/2019
Chloroethane	ND	0.010	0.0005		mg/L	1	3/12/2019
Chloroform	ND	0.0050	0.0001		mg/L	1	3/12/2019
Chloromethane	ND	0.010	0.0003		mg/L	1	3/12/2019
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	3/12/2019
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	3/12/2019
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	3/12/2019
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	3/12/2019
cis-1,2-Dichloroethene	0.015	0.0050	0.0002		mg/L	1	3/12/2019
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	3/12/2019
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	3/12/2019
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	3/12/2019
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	3/12/2019
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	3/12/2019
2-Hexanone	ND	0.020	0.0002		mg/L	1	3/12/2019
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	3/12/2019
Methylene chloride	ND	0.0050	0.0002		mg/L	1	3/12/2019
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	3/12/2019
Styrene	ND	0.0050	0.0003		mg/L	1	3/12/2019
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	3/12/2019
Tetrachloroethene	0.26	0.0050	0.0003		mg/L	1	3/12/2019
Toluene	ND	0.0050	0.0004		mg/L	1	3/12/2019
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	3/12/2019
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	3/12/2019
Trichloroethene	0.070	0.0050	0.0003		mg/L	1	3/12/2019
Vinyl chloride	0.012	0.0020	0.0003		mg/L	1	3/12/2019
Xylenes, Total	ND	0.015	0.001		mg/L	1	3/12/2019

ND - Not Detected at the LOD

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

**Qualifiers:**

J - Analyte detected below LOQ

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

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Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Report Date: March 19, 2019

**ANALYTICAL RESULTS**

Print Date: March 19, 2019

CLIENT: Hydrodynamics Consultant, Inc.

Client Sample ID: MW 6-3

Work Order: 19030343 Revision 0

Tag Number:

Project: Westwood Cleaners, 8731 West North Ave., Wauwatosa,

Collection Date: 3/8/2019 2:06:00 PM

Lab ID: 19030343-007A

Matrix: AQUEOUS

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS**

SW8260B (SW5030B)

Prep Date:

Analyst: MJK

Acetone	ND	0.020	0.0031		mg/L	1	3/12/2019
Benzene	ND	0.0050	0.0002		mg/L	1	3/12/2019
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	3/12/2019
Bromoform	ND	0.0050	0.0003		mg/L	1	3/12/2019
Bromomethane	ND	0.010	0.002		mg/L	1	3/12/2019
2-Butanone	ND	0.020	0.0016		mg/L	1	3/12/2019
Carbon disulfide	ND	0.010	0.0003		mg/L	1	3/12/2019
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	3/12/2019
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	3/12/2019
Chloroethane	ND	0.010	0.0005		mg/L	1	3/12/2019
Chloroform	ND	0.0050	0.0001		mg/L	1	3/12/2019
Chloromethane	ND	0.010	0.0003		mg/L	1	3/12/2019
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	3/12/2019
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	3/12/2019
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	3/12/2019
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	3/12/2019
cis-1,2-Dichloroethene	0.012	0.0050	0.0002		mg/L	1	3/12/2019
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	3/12/2019
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	3/12/2019
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	3/12/2019
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	3/12/2019
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	3/12/2019
2-Hexanone	ND	0.020	0.0002		mg/L	1	3/12/2019
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	3/12/2019
Methylene chloride	ND	0.0050	0.0002		mg/L	1	3/12/2019
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	3/12/2019
Styrene	ND	0.0050	0.0003		mg/L	1	3/12/2019
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	3/12/2019
Tetrachloroethene	0.37	0.050	0.003		mg/L	10	3/12/2019
Toluene	ND	0.0050	0.0004		mg/L	1	3/12/2019
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	3/12/2019
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	3/12/2019
Trichloroethene	0.052	0.0050	0.0003		mg/L	1	3/12/2019
Vinyl chloride	0.0057	0.0020	0.0003		mg/L	1	3/12/2019
Xylenes, Total	ND	0.015	0.001		mg/L	1	3/12/2019

**Qualifiers:**

ND - Not Detected at the LOD

J - Analyte detected below LOQ

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Report Date: March 19, 2019

**ANALYTICAL RESULTS**

Print Date: March 19, 2019

CLIENT: Hydrodynamics Consultant, Inc.

Client Sample ID: MW -TB

Work Order: 19030343 Revision 0

Tag Number:

Project: Westwood Cleaners, 8731 West North Ave., Wauwatosa,

Collection Date: 3/8/2019 8:55:00 AM

Lab ID: 19030343-008A

Matrix: AQUEOUS

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS**

SW8260B (SW5030B)

Prep Date:

Analyst: MJK

Acetone	ND	0.020	0.0031		mg/L	1	3/12/2019
Benzene	ND	0.0050	0.0002		mg/L	1	3/12/2019
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	3/12/2019
Bromoform	ND	0.0050	0.0003		mg/L	1	3/12/2019
Bromomethane	ND	0.010	0.002		mg/L	1	3/12/2019
2-Butanone	ND	0.020	0.0016		mg/L	1	3/12/2019
Carbon disulfide	ND	0.010	0.0003		mg/L	1	3/12/2019
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	3/12/2019
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	3/12/2019
Chloroethane	ND	0.010	0.0005		mg/L	1	3/12/2019
Chloroform	ND	0.0050	0.0001		mg/L	1	3/12/2019
Chloromethane	ND	0.010	0.0003		mg/L	1	3/12/2019
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	3/12/2019
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	3/12/2019
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	3/12/2019
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	3/12/2019
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	3/12/2019
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	3/12/2019
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	3/12/2019
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	3/12/2019
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	3/12/2019
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	3/12/2019
2-Hexanone	ND	0.020	0.0002		mg/L	1	3/12/2019
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	3/12/2019
Methylene chloride	ND	0.0050	0.0002		mg/L	1	3/12/2019
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	3/12/2019
Styrene	ND	0.0050	0.0003		mg/L	1	3/12/2019
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	3/12/2019
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	3/12/2019
Toluene	ND	0.0050	0.0004		mg/L	1	3/12/2019
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	3/12/2019
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	3/12/2019
Trichloroethene	ND	0.0050	0.0003		mg/L	1	3/12/2019
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	3/12/2019
Xylenes, Total	ND	0.015	0.001		mg/L	1	3/12/2019

ND - Not Detected at the LOD

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

**Qualifiers:**

J - Analyte detected below LOQ

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

# STAT Analysis Corporation

2201 West Campbell Park Drive, Chicago, Illinois 60612-3547 Phone: (312) 733-0551 Fax: (312) 733-2386  
 e-mail address: [STATinfo@STATAnalysis.com](mailto:STATinfo@STATAnalysis.com) A I H A accredited 10248, N V L A P accredited 101202-0

## CHAIN OF CUSTODY RECORD

Company: **Hydrodynamics Consultant, Inc.**

Project Number: \_\_\_\_\_ Client Tracking No.: \_\_\_\_\_  
 Project Name: **Westwood Cleaners**  
 Location/Address: **8731 West North Ave., Wauwatosa, WI 53226**  
 Sampler(s): **Yinong Han**

P.O. No.: \_\_\_\_\_

Quote No.: \_\_\_\_\_

Report To: **Yong Yu** Phone: **(630) 724-0098**  
 QC Level: **1 2 3 4** Fax: **(800) 881-2051**

Regulatory Program: **NPEDS/MWRD RCRA SDWA SRP TACO Other:**

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	Remarks	Results Needed:	
									am	pm
VOCs										
MW 1-3	3/8/19	12:31	W			Yes	2		X	001
MW 2-3	3/8/19	12:46	W			Yes	2		X	002
MW 3-3	3/8/19	13:02	W			Yes	2		X	003
MW 4-3	3/8/19	13:20	W			Yes	2		X	004
MW 5-3	3/8/19	13:38	W			Yes	2		X	005
MW 5-3D	3/8/19	13:49	W			Yes	2		X	006
MW 6-3	3/8/19	14:06	W			Yes	2		X	007
MW-TB	3/8/19	8:55	W			Yes	2		X	008

Relinquished By: (Signature) \_\_\_\_\_ Date/Time: **3/11/19**  
 Received By: (Signature) \_\_\_\_\_ Date/Time: **3/11/19 15:46**  
 Relinquished By: (Signature) \_\_\_\_\_ Date/Time: **3/11/19 12:22**  
 Received By: (Signature) \_\_\_\_\_ Date/Time: **3/11/19 17:22**  
 Relinquished By: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

Turn Around: \_\_\_\_\_

Work Order No.: **19030343**

Preservation Code:

A = None B = HNO C = NaOH  
 D = H<sub>2</sub>SO<sub>4</sub> E = HCl F = 5035/EnCore

Laboratory Use:  
 - Container OK  Yes  No  
 - Samples Leaking  Yes  No  
 - Refrigerated (Temp: **3.9** °C)  Yes  No  
 - Sample Labels Match Sample ID  Yes  No

**Sample Receipt Checklist**

Client Name HYDRODYNAMICS

Date and Time Received: 3/11/2019 5:22:00 PM

Work Order Number 19030343

Received by: EAA

Checklist completed by: EL 3/11/19  
Signature Date

Reviewed by: AA 3/12/19  
Initials Date

Matrix: Carrier name STAT Analysis

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels/containers? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Container or Temp Blank temperature in compliance? Yes  No  Temperature 3.9 °C
- Water - VOA vials have zero headspace? No VOA vials submitted  Yes  No
- Water - Samples pH checked? Yes  No  Checked by: \_\_\_\_\_
- Water - Samples properly preserved? Yes  No  pH Adjusted? \_\_\_\_\_

Any No response must be detailed in the comments section below.

-----

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Client / Person contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Response: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**STAT** Analysis Corporation

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

July 22, 2019

Hydrodynamics Consultant, Inc.  
5403 Patton Drive  
Lisle, IL 60532

Telephone: (630) 724-0098  
Fax: (800) 881-2051

Analytical Report for STAT Work Order: 19070781 Revision 0

RE: Westwood Cleaners, 8731 West North Ave., Wauwatosa, WI 53226

Dear Dr. Yong Yu:

STAT Analysis received 8 samples for the referenced project on 7/15/2019 2:46:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements specified in WI DNR Chapter NR 149 (Certification Number 399099910). Analyses were performed in accordance with methods as referenced on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. A listing of accredited methods/parameters can also be provided.

For sample results requiring adjustment for dilutions, the detection and reporting limits are adjusted for the corresponding dilution factor. Analytical results expressed on a dry weight basis have units of mg/Kg-dry or  $\mu\text{g}/\text{Kg-dry}$  on the analytical report. Corresponding reporting limits are adjusted for dry weight.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Craig Chawla  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples as received and tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

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**Client:** Hydrodynamics Consultant, Inc.**Project:** Westwood Cleaners, 8731 West North Ave., Wauwatos**Work Order Sample Summary****Work Order:** 19070781 Revision 0

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<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
19070781-001A	MW 1-4		7/13/2019 11:29:00 AM	7/15/2019
19070781-002A	MW 2-4		7/13/2019 11:35:00 AM	7/15/2019
19070781-003A	MW 2-4D		7/13/2019 11:39:00 AM	7/15/2019
19070781-004A	MW 3-4		7/13/2019 11:46:00 AM	7/15/2019
19070781-005A	MW 4-4		7/13/2019 11:52:00 AM	7/15/2019
19070781-006A	MW 5-4		7/13/2019 12:01:00 PM	7/15/2019
19070781-007A	MW 6-4		7/13/2019 12:09:00 PM	7/15/2019
19070781-008A	MW TB4		7/13/2019 9:07:00 AM	7/15/2019

**STAT Analysis Corporation**

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Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Report Date: July 22, 2019

**ANALYTICAL RESULTS**

Print Date: July 22, 2019

CLIENT: Hydrodynamics Consultant, Inc.

Client Sample ID: MW 1-4

Work Order: 19070781 Revision 0

Tag Number:

Project: Westwood Cleaners, 8731 West North Ave., Wauwatosa,

Collection Date: 7/13/2019 11:29:00 AM

Lab ID: 19070781-001A

Matrix: AQUEOUS

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS**

SW8260B (SW5030B)

Prep Date:

Analyst: MJK

Acetone	ND	0.020	0.0031		mg/L	1	7/16/2019
Benzene	ND	0.0050	0.0002		mg/L	1	7/16/2019
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	7/16/2019
Bromoform	ND	0.0010	0.0003		mg/L	1	7/16/2019
Bromomethane	ND	0.0050	0.002		mg/L	1	7/16/2019
2-Butanone	ND	0.020	0.0016		mg/L	1	7/16/2019
Carbon disulfide	ND	0.010	0.0003		mg/L	1	7/16/2019
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	7/16/2019
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	7/16/2019
Chloroethane	ND	0.010	0.0005		mg/L	1	7/16/2019
Chloroform	ND	0.0010	0.0001		mg/L	1	7/16/2019
Chloromethane	ND	0.010	0.0003		mg/L	1	7/16/2019
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	7/16/2019
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	7/16/2019
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	7/16/2019
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	7/16/2019
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	7/16/2019
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	7/16/2019
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	7/16/2019
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	7/16/2019
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	7/16/2019
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	7/16/2019
2-Hexanone	ND	0.020	0.0002		mg/L	1	7/16/2019
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	7/16/2019
Methylene chloride	ND	0.0050	0.0002		mg/L	1	7/16/2019
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	7/16/2019
Styrene	ND	0.0050	0.0003		mg/L	1	7/16/2019
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	7/16/2019
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	7/16/2019
Toluene	ND	0.0050	0.0004		mg/L	1	7/16/2019
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	7/16/2019
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	7/16/2019
Trichloroethene	ND	0.0050	0.0003		mg/L	1	7/16/2019
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	7/16/2019
Xylenes, Total	ND	0.015	0.001		mg/L	1	7/16/2019

ND - Not Detected at the LOD

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

**Qualifiers:**

J - Analyte detected below LOQ

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Report Date: July 22, 2019

**ANALYTICAL RESULTS**

Print Date: July 22, 2019

CLIENT: Hydrodynamics Consultant, Inc.

Client Sample ID: MW 2-4

Work Order: 19070781 Revision 0

Tag Number:

Project: Westwood Cleaners, 8731 West North Ave., Wauwatosa,

Collection Date: 7/13/2019 11:35:00 AM

Lab ID: 19070781-002A

Matrix: AQUEOUS

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>							
		<b>SW8260B (SW5030B)</b>					
							Prep Date: Analyst: <b>MJK</b>
Acetone	ND	0.020	0.0031		mg/L	1	7/16/2019
Benzene	ND	0.0050	0.0002		mg/L	1	7/16/2019
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	7/16/2019
Bromoform	ND	0.0010	0.0003		mg/L	1	7/16/2019
Bromomethane	ND	0.0050	0.002		mg/L	1	7/16/2019
2-Butanone	ND	0.020	0.0016		mg/L	1	7/16/2019
Carbon disulfide	ND	0.010	0.0003		mg/L	1	7/16/2019
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	7/16/2019
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	7/16/2019
Chloroethane	ND	0.010	0.0005		mg/L	1	7/16/2019
Chloroform	ND	0.0010	0.0001		mg/L	1	7/16/2019
Chloromethane	ND	0.010	0.0003		mg/L	1	7/16/2019
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	7/16/2019
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	7/16/2019
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	7/16/2019
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	7/16/2019
cis-1,2-Dichloroethene	0.0044	0.0050	0.0002	J	mg/L	1	7/16/2019
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	7/16/2019
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	7/16/2019
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	7/16/2019
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	7/16/2019
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	7/16/2019
2-Hexanone	ND	0.020	0.0002		mg/L	1	7/16/2019
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	7/16/2019
Methylene chloride	ND	0.0050	0.0002		mg/L	1	7/16/2019
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	7/16/2019
Styrene	ND	0.0050	0.0003		mg/L	1	7/16/2019
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	7/16/2019
Tetrachloroethene	0.053	0.0050	0.0003		mg/L	1	7/16/2019
Toluene	ND	0.0050	0.0004		mg/L	1	7/16/2019
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	7/16/2019
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	7/16/2019
Trichloroethene	0.018	0.0050	0.0003		mg/L	1	7/16/2019
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	7/16/2019
Xylenes, Total	ND	0.015	0.001		mg/L	1	7/16/2019

<b>Qualifiers:</b>	ND - Not Detected at the LOD	LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis
	J - Analyte detected below LOQ	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Report Date: July 22, 2019

**ANALYTICAL RESULTS**

Print Date: July 22, 2019

CLIENT: Hydrodynamics Consultant, Inc.

Client Sample ID: MW 2-4D

Work Order: 19070781 Revision 0

Tag Number:

Project: Westwood Cleaners, 8731 West North Ave., Wauwatosa,

Collection Date: 7/13/2019 11:39:00 AM

Lab ID: 19070781-003A

Matrix: AQUEOUS

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS****SW8260B (SW5030B)**

Prep Date:

Analyst: **MJK**

Acetone	ND	0.020	0.0031		mg/L	1	7/16/2019
Benzene	ND	0.0050	0.0002		mg/L	1	7/16/2019
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	7/16/2019
Bromoform	ND	0.0010	0.0003		mg/L	1	7/16/2019
Bromomethane	ND	0.0050	0.002		mg/L	1	7/16/2019
2-Butanone	ND	0.020	0.0016		mg/L	1	7/16/2019
Carbon disulfide	ND	0.010	0.0003		mg/L	1	7/16/2019
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	7/16/2019
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	7/16/2019
Chloroethane	ND	0.010	0.0005		mg/L	1	7/16/2019
Chloroform	ND	0.0010	0.0001		mg/L	1	7/16/2019
Chloromethane	ND	0.010	0.0003		mg/L	1	7/16/2019
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	7/16/2019
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	7/16/2019
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	7/16/2019
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	7/16/2019
cis-1,2-Dichloroethene	0.0044	0.0050	0.0002	J	mg/L	1	7/16/2019
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	7/16/2019
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	7/16/2019
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	7/16/2019
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	7/16/2019
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	7/16/2019
2-Hexanone	ND	0.020	0.0002		mg/L	1	7/16/2019
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	7/16/2019
Methylene chloride	ND	0.0050	0.0002		mg/L	1	7/16/2019
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	7/16/2019
Styrene	ND	0.0050	0.0003		mg/L	1	7/16/2019
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	7/16/2019
Tetrachloroethene	0.053	0.0050	0.0003		mg/L	1	7/16/2019
Toluene	ND	0.0050	0.0004		mg/L	1	7/16/2019
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	7/16/2019
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	7/16/2019
Trichloroethene	0.018	0.0050	0.0003		mg/L	1	7/16/2019
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	7/16/2019
Xylenes, Total	ND	0.015	0.001		mg/L	1	7/16/2019

**Qualifiers:**

ND - Not Detected at the LOD

J - Analyte detected below LOQ

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Report Date: July 22, 2019

**ANALYTICAL RESULTS**

Print Date: July 22, 2019

CLIENT: Hydrodynamics Consultant, Inc.

Client Sample ID: MW 3-4

Work Order: 19070781 Revision 0

Tag Number:

Project: Westwood Cleaners, 8731 West North Ave., Wauwatosa,

Collection Date: 7/13/2019 11:46:00 AM

Lab ID: 19070781-004A

Matrix: AQUEOUS

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>							
		<b>SW8260B (SW5030B)</b>					
							Prep Date: Analyst: <b>MJK</b>
Acetone	ND	0.020	0.0031		mg/L	1	7/16/2019
Benzene	ND	0.0050	0.0002		mg/L	1	7/16/2019
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	7/16/2019
Bromoform	ND	0.0010	0.0003		mg/L	1	7/16/2019
Bromomethane	ND	0.0050	0.002		mg/L	1	7/16/2019
2-Butanone	ND	0.020	0.0016		mg/L	1	7/16/2019
Carbon disulfide	ND	0.010	0.0003		mg/L	1	7/16/2019
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	7/16/2019
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	7/16/2019
Chloroethane	ND	0.010	0.0005		mg/L	1	7/16/2019
Chloroform	ND	0.0010	0.0001		mg/L	1	7/16/2019
Chloromethane	ND	0.010	0.0003		mg/L	1	7/16/2019
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	7/16/2019
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	7/16/2019
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	7/16/2019
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	7/16/2019
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	7/16/2019
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	7/16/2019
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	7/16/2019
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	7/16/2019
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	7/16/2019
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	7/16/2019
2-Hexanone	ND	0.020	0.0002		mg/L	1	7/16/2019
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	7/16/2019
Methylene chloride	ND	0.0050	0.0002		mg/L	1	7/16/2019
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	7/16/2019
Styrene	ND	0.0050	0.0003		mg/L	1	7/16/2019
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	7/16/2019
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	7/16/2019
Toluene	ND	0.0050	0.0004		mg/L	1	7/16/2019
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	7/16/2019
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	7/16/2019
Trichloroethene	ND	0.0050	0.0003		mg/L	1	7/16/2019
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	7/16/2019
Xylenes, Total	ND	0.015	0.001		mg/L	1	7/16/2019

<b>Qualifiers:</b>	ND - Not Detected at the LOD	LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis
	J - Analyte detected below LOQ	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Report Date: July 22, 2019

**ANALYTICAL RESULTS**

Print Date: July 22, 2019

CLIENT: Hydrodynamics Consultant, Inc.

Client Sample ID: MW 4-4

Work Order: 19070781 Revision 0

Tag Number:

Project: Westwood Cleaners, 8731 West North Ave., Wauwatosa,

Collection Date: 7/13/2019 11:52:00 AM

Lab ID: 19070781-005A

Matrix: AQUEOUS

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS**

SW8260B (SW5030B)

Prep Date:

Analyst: MJK

Acetone	ND	0.020	0.0031		mg/L	1	7/16/2019
Benzene	ND	0.0050	0.0002		mg/L	1	7/16/2019
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	7/16/2019
Bromoform	ND	0.0010	0.0003		mg/L	1	7/16/2019
Bromomethane	ND	0.0050	0.002		mg/L	1	7/16/2019
2-Butanone	ND	0.020	0.0016		mg/L	1	7/16/2019
Carbon disulfide	ND	0.010	0.0003		mg/L	1	7/16/2019
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	7/16/2019
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	7/16/2019
Chloroethane	ND	0.010	0.0005		mg/L	1	7/16/2019
Chloroform	ND	0.0010	0.0001		mg/L	1	7/16/2019
Chloromethane	ND	0.010	0.0003		mg/L	1	7/16/2019
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	7/16/2019
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	7/16/2019
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	7/16/2019
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	7/16/2019
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	7/16/2019
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	7/16/2019
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	7/16/2019
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	7/16/2019
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	7/16/2019
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	7/16/2019
2-Hexanone	ND	0.020	0.0002		mg/L	1	7/16/2019
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	7/16/2019
Methylene chloride	ND	0.0050	0.0002		mg/L	1	7/16/2019
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	7/16/2019
Styrene	ND	0.0050	0.0003		mg/L	1	7/16/2019
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	7/16/2019
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	7/16/2019
Toluene	ND	0.0050	0.0004		mg/L	1	7/16/2019
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	7/16/2019
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	7/16/2019
Trichloroethene	ND	0.0050	0.0003		mg/L	1	7/16/2019
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	7/16/2019
Xylenes, Total	ND	0.015	0.001		mg/L	1	7/16/2019

ND - Not Detected at the LOD

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

**Qualifiers:**

J - Analyte detected below LOQ

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Report Date: July 22, 2019

**ANALYTICAL RESULTS**

Print Date: July 22, 2019

CLIENT: Hydrodynamics Consultant, Inc.

Client Sample ID: MW 5-4

Work Order: 19070781 Revision 0

Tag Number:

Project: Westwood Cleaners, 8731 West North Ave., Wauwatosa,

Collection Date: 7/13/2019 12:01:00 PM

Lab ID: 19070781-006A

Matrix: AQUEOUS

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS**

SW8260B (SW5030B)

Prep Date:

Analyst: MJK

Acetone	ND	0.020	0.0031		mg/L	1	7/16/2019
Benzene	ND	0.0050	0.0002		mg/L	1	7/16/2019
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	7/16/2019
Bromoform	ND	0.0010	0.0003		mg/L	1	7/16/2019
Bromomethane	ND	0.0050	0.002		mg/L	1	7/16/2019
2-Butanone	ND	0.020	0.0016		mg/L	1	7/16/2019
Carbon disulfide	ND	0.010	0.0003		mg/L	1	7/16/2019
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	7/16/2019
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	7/16/2019
Chloroethane	ND	0.010	0.0005		mg/L	1	7/16/2019
Chloroform	ND	0.0010	0.0001		mg/L	1	7/16/2019
Chloromethane	ND	0.010	0.0003		mg/L	1	7/16/2019
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	7/16/2019
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	7/16/2019
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	7/16/2019
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	7/16/2019
cis-1,2-Dichloroethene	0.023	0.0050	0.0002		mg/L	1	7/16/2019
trans-1,2-Dichloroethene	0.0036	0.0050	0.0005	J	mg/L	1	7/16/2019
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	7/16/2019
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	7/16/2019
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	7/16/2019
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	7/16/2019
2-Hexanone	ND	0.020	0.0002		mg/L	1	7/16/2019
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	7/16/2019
Methylene chloride	ND	0.0050	0.0002		mg/L	1	7/16/2019
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	7/16/2019
Styrene	ND	0.0050	0.0003		mg/L	1	7/16/2019
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	7/16/2019
Tetrachloroethene	4.3	0.50	0.03		mg/L	100	7/17/2019
Toluene	ND	0.0050	0.0004		mg/L	1	7/16/2019
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	7/16/2019
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	7/16/2019
Trichloroethene	0.12	0.0050	0.0003		mg/L	1	7/16/2019
Vinyl chloride	0.020	0.0020	0.0003		mg/L	1	7/16/2019
Xylenes, Total	ND	0.015	0.001		mg/L	1	7/16/2019

**Qualifiers:**

ND - Not Detected at the LOD

J - Analyte detected below LOQ

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded



**STAT Analysis Corporation**

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Report Date: July 22, 2019

**ANALYTICAL RESULTS**

Print Date: July 22, 2019

CLIENT: Hydrodynamics Consultant, Inc.

Client Sample ID: MW 6-4

Work Order: 19070781 Revision 0

Tag Number:

Project: Westwood Cleaners, 8731 West North Ave., Wauwatosa,

Collection Date: 7/13/2019 12:09:00 PM

Lab ID: 19070781-007A

Matrix: AQUEOUS

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS**

SW8260B (SW5030B)

Prep Date:

Analyst: MJK

Acetone	ND	0.020	0.0031		mg/L	1	7/16/2019
Benzene	ND	0.0050	0.0002		mg/L	1	7/16/2019
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	7/16/2019
Bromoform	ND	0.0010	0.0003		mg/L	1	7/16/2019
Bromomethane	ND	0.0050	0.002		mg/L	1	7/16/2019
2-Butanone	ND	0.020	0.0016		mg/L	1	7/16/2019
Carbon disulfide	ND	0.010	0.0003		mg/L	1	7/16/2019
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	7/16/2019
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	7/16/2019
Chloroethane	ND	0.010	0.0005		mg/L	1	7/16/2019
Chloroform	ND	0.0010	0.0001		mg/L	1	7/16/2019
Chloromethane	ND	0.010	0.0003		mg/L	1	7/16/2019
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	7/16/2019
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	7/16/2019
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	7/16/2019
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	7/16/2019
cis-1,2-Dichloroethene	0.0078	0.0050	0.0002		mg/L	1	7/16/2019
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	7/16/2019
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	7/16/2019
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	7/16/2019
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	7/16/2019
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	7/16/2019
2-Hexanone	ND	0.020	0.0002		mg/L	1	7/16/2019
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	7/16/2019
Methylene chloride	ND	0.0050	0.0002		mg/L	1	7/16/2019
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	7/16/2019
Styrene	ND	0.0050	0.0003		mg/L	1	7/16/2019
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	7/16/2019
Tetrachloroethene	0.55	0.050	0.003		mg/L	10	7/16/2019
Toluene	ND	0.0050	0.0004		mg/L	1	7/16/2019
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	7/16/2019
1,1,2-Trichloroethane	0.019	0.0050	0.0001		mg/L	1	7/16/2019
Trichloroethene	0.041	0.0050	0.0003		mg/L	1	7/16/2019
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	7/16/2019
Xylenes, Total	ND	0.015	0.001		mg/L	1	7/16/2019

**Qualifiers:**

ND - Not Detected at the LOD

J - Analyte detected below LOQ

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Report Date: July 22, 2019

**ANALYTICAL RESULTS**

Print Date: July 22, 2019

CLIENT: Hydrodynamics Consultant, Inc.

Client Sample ID: MW TB4

Work Order: 19070781 Revision 0

Tag Number:

Project: Westwood Cleaners, 8731 West North Ave., Wauwatosa,

Collection Date: 7/13/2019 9:07:00 AM

Lab ID: 19070781-008A

Matrix: AQUEOUS

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS**

SW8260B (SW5030B)

Prep Date:

Analyst: MJK

Acetone	ND	0.020	0.0031		mg/L	1	7/16/2019
Benzene	ND	0.0050	0.0002		mg/L	1	7/16/2019
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	7/16/2019
Bromoform	ND	0.0010	0.0003		mg/L	1	7/16/2019
Bromomethane	ND	0.0050	0.002		mg/L	1	7/16/2019
2-Butanone	ND	0.020	0.0016		mg/L	1	7/16/2019
Carbon disulfide	ND	0.010	0.0003		mg/L	1	7/16/2019
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	7/16/2019
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	7/16/2019
Chloroethane	ND	0.010	0.0005		mg/L	1	7/16/2019
Chloroform	ND	0.0010	0.0001		mg/L	1	7/16/2019
Chloromethane	ND	0.010	0.0003		mg/L	1	7/16/2019
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	7/16/2019
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	7/16/2019
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	7/16/2019
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	7/16/2019
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	7/16/2019
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	7/16/2019
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	7/16/2019
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	7/16/2019
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	7/16/2019
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	7/16/2019
2-Hexanone	ND	0.020	0.0002		mg/L	1	7/16/2019
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	7/16/2019
Methylene chloride	ND	0.0050	0.0002		mg/L	1	7/16/2019
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	7/16/2019
Styrene	ND	0.0050	0.0003		mg/L	1	7/16/2019
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	7/16/2019
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	7/16/2019
Toluene	ND	0.0050	0.0004		mg/L	1	7/16/2019
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	7/16/2019
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	7/16/2019
Trichloroethene	ND	0.0050	0.0003		mg/L	1	7/16/2019
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	7/16/2019
Xylenes, Total	ND	0.015	0.001		mg/L	1	7/16/2019

ND - Not Detected at the LOD

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

**Qualifiers:**

J - Analyte detected below LOQ

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded




**Sample Receipt Checklist**

Client Name **HYDRODYNAMICS**

Date and Time Received: **7/15/2019 2:46:00 PM**

Work Order Number **19070781**

Received by: **CHB**

Checklist completed by:  **7/15/19**  
Signature Date

Reviewed by: **AA** **7/17/19**  
Initials Date

Matrix: \_\_\_\_\_ Carrier name **STAT Analysis**

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels/containers? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Container or Temp Blank temperature in compliance? Yes  No  Temperature **3.8 °C**
- Water - VOA vials have zero headspace? No VOA vials submitted  Yes  No
- Water - Samples pH checked? Yes  No  Checked by: \_\_\_\_\_
- Water - Samples properly preserved? Yes  No  pH Adjusted? \_\_\_\_\_

Any No response must be detailed in the comments section below.

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Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Client / Person contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Response: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**STAT** Analysis Corporation

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August 04, 2020

Hydrodynamics Consultants, Inc.  
5403 Patton Drive  
Lisle, IL 60532

Telephone: (630) 724-0098  
Fax: (800) 881-2051

Analytical Report for STAT Work Order: 20071082 Revision 0

RE: Westwood Cleaners, 8731 W. North Avenue, Wauwatosa, WI

Dear Hydrodynamics Consultants, Inc.:

STAT Analysis received 8 samples for the referenced project on 7/29/2020 3:00:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAP standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Justice Kwateng  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples as received and tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

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**Client:** Hydrodynamics Consultants, Inc.**Project:** Westwood Cleaners, 8731 W. North Avenue, Wauwato**Work Order Sample Summary****Work Order:** 20071082 Revision 0

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Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
20071082-001A	SV1-1/4		7/28/2020 3:35:00 PM	7/29/2020
20071082-002A	SV2-1/4		7/28/2020 4:00:00 PM	7/29/2020
20071082-003A	SV3-1/4		7/28/2020 10:40:00 AM	7/29/2020
20071082-004A	SV4-1/4		7/28/2020 11:20:00 AM	7/29/2020
20071082-005A	SV5-1/4		7/28/2020 3:30:00 PM	7/29/2020
20071082-006A	SV6-1/4		7/28/2020 11:10:00 AM	7/29/2020
20071082-007A	SV7-1/4		7/28/2020 8:40:00 AM	7/29/2020
20071082-008A	SV7-1/4D		7/28/2020 10:50:00 AM	7/29/2020

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**CLIENT:** Hydrodynamics Consultants, Inc.  
**Project:** Westwood Cleaners, 8731 W. North Avenue, Wauwatosa, W  
**Work Order:** 20071082 Revision 0

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**CASE NARRATIVE**

TO-15 results that are reported in mg/m<sup>3</sup> are calculated based on a temperature of 25°C, atmospheric pressure of 760 mm Hg, and the molecular weight of the analyte.

The TO-15 Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) analyzed 7/30/2020 had recovery of 2-Butanone outside of control limits (136%/136% (LCS/LCSD) recovery, QC limits 70-130%).

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: August 04, 2020

**ANALYTICAL RESULTS**

Date Printed: August 04, 2020

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV1-1/4

Work Order: 20071082 Revision 0

Collection Date: 7/28/2020 3:35:00 PM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 20071082-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: <b>7/30/2020</b>		Analyst: <b>MAS</b>
1,1,1-Trichloroethane	ND	0.0034		mg/m <sup>3</sup>	2	7/30/2020
1,1,2-Trichloroethane	ND	0.0034		mg/m <sup>3</sup>	2	7/30/2020
1,1-Dichloroethane	ND	0.0025		mg/m <sup>3</sup>	2	7/30/2020
1,1-Dichloroethene	ND	0.0025		mg/m <sup>3</sup>	2	7/30/2020
1,2,4-Trichlorobenzene	ND	0.0046		mg/m <sup>3</sup>	2	7/30/2020
1,2-Dibromoethane	ND	0.0046		mg/m <sup>3</sup>	2	7/30/2020
1,2-Dichlorobenzene	ND	0.0037		mg/m <sup>3</sup>	2	7/30/2020
1,2-Dichloroethane	ND	0.0025		mg/m <sup>3</sup>	2	7/30/2020
1,2-Dichloropropane	ND	0.0028		mg/m <sup>3</sup>	2	7/30/2020
1,4-Dichlorobenzene	ND	0.0037		mg/m <sup>3</sup>	2	7/30/2020
1,4-Dioxane	ND	0.0056		mg/m <sup>3</sup>	2	7/30/2020
2-Butanone	ND	0.0046		mg/m <sup>3</sup>	2	7/30/2020
Acetone	0.17	0.015	*	mg/m <sup>3</sup>	2	7/30/2020
Benzene	0.0023	0.0019		mg/m <sup>3</sup>	2	7/30/2020
Bromodichloromethane	ND	0.0040		mg/m <sup>3</sup>	2	7/30/2020
Bromoform	ND	0.016		mg/m <sup>3</sup>	2	7/30/2020
Bromomethane	ND	0.0059		mg/m <sup>3</sup>	2	7/30/2020
Carbon disulfide	0.0069	0.0019		mg/m <sup>3</sup>	2	7/30/2020
Carbon tetrachloride	ND	0.0040		mg/m <sup>3</sup>	2	7/30/2020
Chlorobenzene	ND	0.0028		mg/m <sup>3</sup>	2	7/30/2020
Chloroform	0.0051	0.0031		mg/m <sup>3</sup>	2	7/30/2020
cis-1,2-Dichloroethene	ND	0.0025		mg/m <sup>3</sup>	2	7/30/2020
cis-1,3-Dichloropropene	ND	0.0028		mg/m <sup>3</sup>	2	7/30/2020
Dibromochloromethane	ND	0.0052		mg/m <sup>3</sup>	2	7/30/2020
Dichlorodifluoromethane	ND	0.0031		mg/m <sup>3</sup>	2	7/30/2020
Ethylbenzene	0.0072	0.0028		mg/m <sup>3</sup>	2	7/30/2020
Isopropyl Alcohol	4.4	0.39		mg/m <sup>3</sup>	100	7/31/2020
m,p-Xylene	0.029	0.0052		mg/m <sup>3</sup>	2	7/30/2020
Methyl tert-butyl ether	ND	0.0022		mg/m <sup>3</sup>	2	7/30/2020
Methylene chloride	ND	0.021		mg/m <sup>3</sup>	2	7/30/2020
Naphthalene	0.0057	0.0031		mg/m <sup>3</sup>	2	7/30/2020
o-Xylene	0.011	0.0028		mg/m <sup>3</sup>	2	7/30/2020
Styrene	0.011	0.0028		mg/m <sup>3</sup>	2	7/30/2020
Tetrachloroethene	0.035	0.0043		mg/m <sup>3</sup>	2	7/30/2020
Toluene	0.029	0.0025		mg/m <sup>3</sup>	2	7/30/2020
trans-1,2-Dichloroethene	ND	0.0025		mg/m <sup>3</sup>	2	7/30/2020
trans-1,3-Dichloropropene	ND	0.0028		mg/m <sup>3</sup>	2	7/30/2020
Trichloroethene	ND	0.0034		mg/m <sup>3</sup>	2	7/30/2020

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded



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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: August 04, 2020

**ANALYTICAL RESULTS**

Date Printed: August 04, 2020

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV1-1/4

Work Order: 20071082 Revision 0

Collection Date: 7/28/2020 3:35:00 PM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 20071082-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: <b>7/30/2020</b>		Analyst: <b>MAS</b>
Trichlorofluoromethane	ND	0.0034		mg/m <sup>3</sup>	2	7/30/2020
Vinyl acetate	ND	0.022		mg/m <sup>3</sup>	2	7/30/2020
Vinyl chloride	ND	0.0015		mg/m <sup>3</sup>	2	7/30/2020
Xylenes, Total	0.040	0.0080		mg/m <sup>3</sup>	2	7/30/2020

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: August 04, 2020

**ANALYTICAL RESULTS**

Date Printed: August 04, 2020

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV2-1/4

Work Order: 20071082 Revision 0

Collection Date: 7/28/2020 4:00:00 PM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 20071082-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: <b>7/30/2020</b>		Analyst: <b>MAS</b>
1,1,1-Trichloroethane	ND	0.0085		mg/m <sup>3</sup>	5	7/31/2020
1,1,2-Trichloroethane	ND	0.0085		mg/m <sup>3</sup>	5	7/31/2020
1,1-Dichloroethane	ND	0.0062		mg/m <sup>3</sup>	5	7/31/2020
1,1-Dichloroethene	ND	0.0062		mg/m <sup>3</sup>	5	7/31/2020
1,2,4-Trichlorobenzene	ND	0.012		mg/m <sup>3</sup>	5	7/31/2020
1,2-Dibromoethane	ND	0.012		mg/m <sup>3</sup>	5	7/31/2020
1,2-Dichlorobenzene	ND	0.0092		mg/m <sup>3</sup>	5	7/31/2020
1,2-Dichloroethane	ND	0.0062		mg/m <sup>3</sup>	5	7/31/2020
1,2-Dichloropropane	ND	0.0069		mg/m <sup>3</sup>	5	7/31/2020
1,4-Dichlorobenzene	ND	0.0092		mg/m <sup>3</sup>	5	7/31/2020
1,4-Dioxane	ND	0.014		mg/m <sup>3</sup>	5	7/31/2020
2-Butanone	0.035	0.012		mg/m <sup>3</sup>	5	7/31/2020
Acetone	0.18	0.037	*	mg/m <sup>3</sup>	5	7/31/2020
Benzene	0.0088	0.0046		mg/m <sup>3</sup>	5	7/31/2020
Bromodichloromethane	ND	0.010		mg/m <sup>3</sup>	5	7/31/2020
Bromoform	ND	0.040		mg/m <sup>3</sup>	5	7/31/2020
Bromomethane	ND	0.015		mg/m <sup>3</sup>	5	7/31/2020
Carbon disulfide	0.011	0.0048		mg/m <sup>3</sup>	5	7/31/2020
Carbon tetrachloride	ND	0.010		mg/m <sup>3</sup>	5	7/31/2020
Chlorobenzene	ND	0.0069		mg/m <sup>3</sup>	5	7/31/2020
Chloroform	ND	0.0077		mg/m <sup>3</sup>	5	7/31/2020
cis-1,2-Dichloroethene	ND	0.0062		mg/m <sup>3</sup>	5	7/31/2020
cis-1,3-Dichloropropene	ND	0.0069		mg/m <sup>3</sup>	5	7/31/2020
Dibromochloromethane	ND	0.013		mg/m <sup>3</sup>	5	7/31/2020
Dichlorodifluoromethane	ND	0.0077		mg/m <sup>3</sup>	5	7/31/2020
Ethylbenzene	ND	0.0069		mg/m <sup>3</sup>	5	7/31/2020
Isopropyl Alcohol	0.46	0.019		mg/m <sup>3</sup>	5	7/31/2020
m,p-Xylene	ND	0.013		mg/m <sup>3</sup>	5	7/31/2020
Methyl tert-butyl ether	ND	0.0054		mg/m <sup>3</sup>	5	7/31/2020
Methylene chloride	ND	0.053		mg/m <sup>3</sup>	5	7/31/2020
Naphthalene	ND	0.0077		mg/m <sup>3</sup>	5	7/31/2020
o-Xylene	ND	0.0069		mg/m <sup>3</sup>	5	7/31/2020
Styrene	ND	0.0069		mg/m <sup>3</sup>	5	7/31/2020
Tetrachloroethene	1.9	0.011		mg/m <sup>3</sup>	5	7/31/2020
Toluene	0.014	0.0062		mg/m <sup>3</sup>	5	7/31/2020
trans-1,2-Dichloroethene	ND	0.0062		mg/m <sup>3</sup>	5	7/31/2020
trans-1,3-Dichloropropene	ND	0.0069		mg/m <sup>3</sup>	5	7/31/2020
Trichloroethene	0.080	0.0085		mg/m <sup>3</sup>	5	7/31/2020

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: August 04, 2020

**ANALYTICAL RESULTS**

Date Printed: August 04, 2020

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV2-1/4

Work Order: 20071082 Revision 0

Collection Date: 7/28/2020 4:00:00 PM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 20071082-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>				Prep Date: <b>7/30/2020</b>	Analyst: <b>MAS</b>
Trichlorofluoromethane	ND	0.0085		mg/m <sup>3</sup>	5	7/31/2020
Vinyl acetate	ND	0.054		mg/m <sup>3</sup>	5	7/31/2020
Vinyl chloride	ND	0.0038		mg/m <sup>3</sup>	5	7/31/2020
Xylenes, Total	ND	0.020		mg/m <sup>3</sup>	5	7/31/2020

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
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Date Reported: August 04, 2020

**ANALYTICAL RESULTS**

Date Printed: August 04, 2020

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV3-1/4

Work Order: 20071082 Revision 0

Collection Date: 7/28/2020 10:40:00 AM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 20071082-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: <b>7/30/2020</b>		Analyst: <b>MAS</b>
1,1,1-Trichloroethane	ND	0.0084		mg/m <sup>3</sup>	5	7/31/2020
1,1,2-Trichloroethane	ND	0.0084		mg/m <sup>3</sup>	5	7/31/2020
1,1-Dichloroethane	ND	0.0061		mg/m <sup>3</sup>	5	7/31/2020
1,1-Dichloroethene	ND	0.0061		mg/m <sup>3</sup>	5	7/31/2020
1,2,4-Trichlorobenzene	ND	0.011		mg/m <sup>3</sup>	5	7/31/2020
1,2-Dibromoethane	ND	0.011		mg/m <sup>3</sup>	5	7/31/2020
1,2-Dichlorobenzene	ND	0.0092		mg/m <sup>3</sup>	5	7/31/2020
1,2-Dichloroethane	ND	0.0061		mg/m <sup>3</sup>	5	7/31/2020
1,2-Dichloropropane	ND	0.0069		mg/m <sup>3</sup>	5	7/31/2020
1,4-Dichlorobenzene	ND	0.0092		mg/m <sup>3</sup>	5	7/31/2020
1,4-Dioxane	ND	0.014		mg/m <sup>3</sup>	5	7/31/2020
2-Butanone	ND	0.011		mg/m <sup>3</sup>	5	7/31/2020
Acetone	0.045	0.037	*	mg/m <sup>3</sup>	5	7/31/2020
Benzene	ND	0.0046		mg/m <sup>3</sup>	5	7/31/2020
Bromodichloromethane	ND	0.0099		mg/m <sup>3</sup>	5	7/31/2020
Bromoform	ND	0.040		mg/m <sup>3</sup>	5	7/31/2020
Bromomethane	ND	0.014		mg/m <sup>3</sup>	5	7/31/2020
Carbon disulfide	ND	0.0048		mg/m <sup>3</sup>	5	7/31/2020
Carbon tetrachloride	ND	0.0099		mg/m <sup>3</sup>	5	7/31/2020
Chlorobenzene	ND	0.0069		mg/m <sup>3</sup>	5	7/31/2020
Chloroform	ND	0.0076		mg/m <sup>3</sup>	5	7/31/2020
cis-1,2-Dichloroethene	ND	0.0061		mg/m <sup>3</sup>	5	7/31/2020
cis-1,3-Dichloropropene	ND	0.0069		mg/m <sup>3</sup>	5	7/31/2020
Dibromochloromethane	ND	0.013		mg/m <sup>3</sup>	5	7/31/2020
Dichlorodifluoromethane	ND	0.0076		mg/m <sup>3</sup>	5	7/31/2020
Ethylbenzene	ND	0.0069		mg/m <sup>3</sup>	5	7/31/2020
Isopropyl Alcohol	0.85	0.019		mg/m <sup>3</sup>	5	7/31/2020
m,p-Xylene	ND	0.013		mg/m <sup>3</sup>	5	7/31/2020
Methyl tert-butyl ether	ND	0.0053		mg/m <sup>3</sup>	5	7/31/2020
Methylene chloride	ND	0.053		mg/m <sup>3</sup>	5	7/31/2020
Naphthalene	ND	0.0076		mg/m <sup>3</sup>	5	7/31/2020
o-Xylene	ND	0.0069		mg/m <sup>3</sup>	5	7/31/2020
Styrene	ND	0.0069		mg/m <sup>3</sup>	5	7/31/2020
Tetrachloroethene	0.79	0.011		mg/m <sup>3</sup>	5	7/31/2020
Toluene	ND	0.0061		mg/m <sup>3</sup>	5	7/31/2020
trans-1,2-Dichloroethene	ND	0.0061		mg/m <sup>3</sup>	5	7/31/2020
trans-1,3-Dichloropropene	ND	0.0069		mg/m <sup>3</sup>	5	7/31/2020
Trichloroethene	0.014	0.0084		mg/m <sup>3</sup>	5	7/31/2020

**Qualifiers:**  
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Date Reported: August 04, 2020

**ANALYTICAL RESULTS**

Date Printed: August 04, 2020

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV3-1/4

Work Order: 20071082 Revision 0

Collection Date: 7/28/2020 10:40:00 AM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 20071082-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: <b>7/30/2020</b>		Analyst: <b>MAS</b>
Trichlorofluoromethane	ND	0.0084		mg/m <sup>3</sup>	5	7/31/2020
Vinyl acetate	ND	0.053		mg/m <sup>3</sup>	5	7/31/2020
Vinyl chloride	ND	0.0038		mg/m <sup>3</sup>	5	7/31/2020
Xylenes, Total	ND	0.020		mg/m <sup>3</sup>	5	7/31/2020

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
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Date Reported: August 04, 2020

**ANALYTICAL RESULTS**

Date Printed: August 04, 2020

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV4-1/4

Work Order: 20071082 Revision 0

Collection Date: 7/28/2020 11:20:00 AM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 20071082-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: <b>7/30/2020</b>		Analyst: <b>MAS</b>
1,1,1-Trichloroethane	ND	0.0085		mg/m <sup>3</sup>	5	7/31/2020
1,1,2-Trichloroethane	ND	0.0085		mg/m <sup>3</sup>	5	7/31/2020
1,1-Dichloroethane	ND	0.0062		mg/m <sup>3</sup>	5	7/31/2020
1,1-Dichloroethene	ND	0.0062		mg/m <sup>3</sup>	5	7/31/2020
1,2,4-Trichlorobenzene	ND	0.012		mg/m <sup>3</sup>	5	7/31/2020
1,2-Dibromoethane	ND	0.012		mg/m <sup>3</sup>	5	7/31/2020
1,2-Dichlorobenzene	ND	0.0093		mg/m <sup>3</sup>	5	7/31/2020
1,2-Dichloroethane	ND	0.0062		mg/m <sup>3</sup>	5	7/31/2020
1,2-Dichloropropane	ND	0.0070		mg/m <sup>3</sup>	5	7/31/2020
1,4-Dichlorobenzene	ND	0.0093		mg/m <sup>3</sup>	5	7/31/2020
1,4-Dioxane	ND	0.014		mg/m <sup>3</sup>	5	7/31/2020
2-Butanone	ND	0.012		mg/m <sup>3</sup>	5	7/31/2020
Acetone	0.16	0.037	*	mg/m <sup>3</sup>	5	7/31/2020
Benzene	ND	0.0047		mg/m <sup>3</sup>	5	7/31/2020
Bromodichloromethane	ND	0.010		mg/m <sup>3</sup>	5	7/31/2020
Bromoform	ND	0.040		mg/m <sup>3</sup>	5	7/31/2020
Bromomethane	ND	0.015		mg/m <sup>3</sup>	5	7/31/2020
Carbon disulfide	0.0080	0.0048		mg/m <sup>3</sup>	5	7/31/2020
Carbon tetrachloride	ND	0.010		mg/m <sup>3</sup>	5	7/31/2020
Chlorobenzene	ND	0.0070		mg/m <sup>3</sup>	5	7/31/2020
Chloroform	ND	0.0078		mg/m <sup>3</sup>	5	7/31/2020
cis-1,2-Dichloroethene	ND	0.0062		mg/m <sup>3</sup>	5	7/31/2020
cis-1,3-Dichloropropene	ND	0.0070		mg/m <sup>3</sup>	5	7/31/2020
Dibromochloromethane	ND	0.013		mg/m <sup>3</sup>	5	7/31/2020
Dichlorodifluoromethane	ND	0.0078		mg/m <sup>3</sup>	5	7/31/2020
Ethylbenzene	0.0088	0.0070		mg/m <sup>3</sup>	5	7/31/2020
Isopropyl Alcohol	5.5	0.39		mg/m <sup>3</sup>	100	7/31/2020
m,p-Xylene	0.035	0.013		mg/m <sup>3</sup>	5	7/31/2020
Methyl tert-butyl ether	ND	0.0054		mg/m <sup>3</sup>	5	7/31/2020
Methylene chloride	ND	0.054		mg/m <sup>3</sup>	5	7/31/2020
Naphthalene	0.0094	0.0078		mg/m <sup>3</sup>	5	7/31/2020
o-Xylene	0.013	0.0070		mg/m <sup>3</sup>	5	7/31/2020
Styrene	0.013	0.0070		mg/m <sup>3</sup>	5	7/31/2020
Tetrachloroethene	0.46	0.011		mg/m <sup>3</sup>	5	7/31/2020
Toluene	0.032	0.0062		mg/m <sup>3</sup>	5	7/31/2020
trans-1,2-Dichloroethene	ND	0.0062		mg/m <sup>3</sup>	5	7/31/2020
trans-1,3-Dichloropropene	ND	0.0070		mg/m <sup>3</sup>	5	7/31/2020
Trichloroethene	ND	0.0085		mg/m <sup>3</sup>	5	7/31/2020

**Qualifiers:**  
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 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

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 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
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Date Reported: August 04, 2020

**ANALYTICAL RESULTS**

Date Printed: August 04, 2020

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV4-1/4

Work Order: 20071082 Revision 0

Collection Date: 7/28/2020 11:20:00 AM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 20071082-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Volatile Organic Compounds in Air by GC/MS		TO-15		Prep Date: 7/30/2020		Analyst: MAS
Trichlorofluoromethane	ND	0.0085		mg/m <sup>3</sup>	5	7/31/2020
Vinyl acetate	ND	0.054		mg/m <sup>3</sup>	5	7/31/2020
Vinyl chloride	ND	0.0039		mg/m <sup>3</sup>	5	7/31/2020
Xylenes, Total	0.049	0.020		mg/m <sup>3</sup>	5	7/31/2020

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
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Date Reported: August 04, 2020

**ANALYTICAL RESULTS**

Date Printed: August 04, 2020

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV5-1/4

Work Order: 20071082 Revision 0

Collection Date: 7/28/2020 3:30:00 PM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 20071082-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: <b>7/30/2020</b>		Analyst: <b>MAS</b>
1,1,1-Trichloroethane	ND	0.0034		mg/m <sup>3</sup>	2	7/30/2020
1,1,2-Trichloroethane	ND	0.0034		mg/m <sup>3</sup>	2	7/30/2020
1,1-Dichloroethane	ND	0.0025		mg/m <sup>3</sup>	2	7/30/2020
1,1-Dichloroethene	ND	0.0025		mg/m <sup>3</sup>	2	7/30/2020
1,2,4-Trichlorobenzene	ND	0.0047		mg/m <sup>3</sup>	2	7/30/2020
1,2-Dibromoethane	ND	0.0047		mg/m <sup>3</sup>	2	7/30/2020
1,2-Dichlorobenzene	ND	0.0038		mg/m <sup>3</sup>	2	7/30/2020
1,2-Dichloroethane	ND	0.0025		mg/m <sup>3</sup>	2	7/30/2020
1,2-Dichloropropane	ND	0.0028		mg/m <sup>3</sup>	2	7/30/2020
1,4-Dichlorobenzene	ND	0.0038		mg/m <sup>3</sup>	2	7/30/2020
1,4-Dioxane	ND	0.0056		mg/m <sup>3</sup>	2	7/30/2020
2-Butanone	0.0068	0.0047		mg/m <sup>3</sup>	2	7/30/2020
Acetone	0.19	0.015	*	mg/m <sup>3</sup>	2	7/30/2020
Benzene	ND	0.0019		mg/m <sup>3</sup>	2	7/30/2020
Bromodichloromethane	ND	0.0041		mg/m <sup>3</sup>	2	7/30/2020
Bromoform	ND	0.016		mg/m <sup>3</sup>	2	7/30/2020
Bromomethane	ND	0.0060		mg/m <sup>3</sup>	2	7/30/2020
Carbon disulfide	0.0043	0.0020		mg/m <sup>3</sup>	2	7/30/2020
Carbon tetrachloride	ND	0.0041		mg/m <sup>3</sup>	2	7/30/2020
Chlorobenzene	ND	0.0028		mg/m <sup>3</sup>	2	7/30/2020
Chloroform	0.0040	0.0031		mg/m <sup>3</sup>	2	7/30/2020
cis-1,2-Dichloroethene	ND	0.0025		mg/m <sup>3</sup>	2	7/30/2020
cis-1,3-Dichloropropene	ND	0.0028		mg/m <sup>3</sup>	2	7/30/2020
Dibromochloromethane	ND	0.0053		mg/m <sup>3</sup>	2	7/30/2020
Dichlorodifluoromethane	ND	0.0031		mg/m <sup>3</sup>	2	7/30/2020
Ethylbenzene	0.0042	0.0028		mg/m <sup>3</sup>	2	7/30/2020
Isopropyl Alcohol	4.7	0.39		mg/m <sup>3</sup>	100	7/31/2020
m,p-Xylene	0.018	0.0053		mg/m <sup>3</sup>	2	7/30/2020
Methyl tert-butyl ether	ND	0.0022		mg/m <sup>3</sup>	2	7/30/2020
Methylene chloride	ND	0.022		mg/m <sup>3</sup>	2	7/30/2020
Naphthalene	0.0033	0.0031		mg/m <sup>3</sup>	2	7/30/2020
o-Xylene	0.0068	0.0028		mg/m <sup>3</sup>	2	7/30/2020
Styrene	0.0043	0.0028		mg/m <sup>3</sup>	2	7/30/2020
Tetrachloroethene	0.093	0.0044		mg/m <sup>3</sup>	2	7/30/2020
Toluene	0.021	0.0025		mg/m <sup>3</sup>	2	7/30/2020
trans-1,2-Dichloroethene	ND	0.0025		mg/m <sup>3</sup>	2	7/30/2020
trans-1,3-Dichloropropene	ND	0.0028		mg/m <sup>3</sup>	2	7/30/2020
Trichloroethene	ND	0.0034		mg/m <sup>3</sup>	2	7/30/2020

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded



**STAT Analysis Corporation**

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: August 04, 2020

**ANALYTICAL RESULTS**

Date Printed: August 04, 2020

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV5-1/4

Work Order: 20071082 Revision 0

Collection Date: 7/28/2020 3:30:00 PM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 20071082-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: <b>7/30/2020</b>		Analyst: <b>MAS</b>
Trichlorofluoromethane	ND	0.0034		mg/m <sup>3</sup>	2	7/30/2020
Vinyl acetate	ND	0.022		mg/m <sup>3</sup>	2	7/30/2020
Vinyl chloride	ND	0.0016		mg/m <sup>3</sup>	2	7/30/2020
Xylenes, Total	0.025	0.0082		mg/m <sup>3</sup>	2	7/30/2020

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Date Reported: August 04, 2020

**ANALYTICAL RESULTS**

Date Printed: August 04, 2020

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV6-1/4

Work Order: 20071082 Revision 0

Collection Date: 7/28/2020 11:10:00 AM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 20071082-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: <b>7/30/2020</b>		Analyst: <b>MAS</b>
1,1,1-Trichloroethane	ND	0.0039		mg/m <sup>3</sup>	2	7/31/2020
1,1,2-Trichloroethane	ND	0.0039		mg/m <sup>3</sup>	2	7/31/2020
1,1-Dichloroethane	ND	0.0028		mg/m <sup>3</sup>	2	7/31/2020
1,1-Dichloroethene	ND	0.0028		mg/m <sup>3</sup>	2	7/31/2020
1,2,4-Trichlorobenzene	ND	0.0053		mg/m <sup>3</sup>	2	7/31/2020
1,2-Dibromoethane	ND	0.0053		mg/m <sup>3</sup>	2	7/31/2020
1,2-Dichlorobenzene	ND	0.0042		mg/m <sup>3</sup>	2	7/31/2020
1,2-Dichloroethane	ND	0.0028		mg/m <sup>3</sup>	2	7/31/2020
1,2-Dichloropropane	ND	0.0032		mg/m <sup>3</sup>	2	7/31/2020
1,4-Dichlorobenzene	ND	0.0042		mg/m <sup>3</sup>	2	7/31/2020
1,4-Dioxane	ND	0.0064		mg/m <sup>3</sup>	2	7/31/2020
2-Butanone	ND	0.0053		mg/m <sup>3</sup>	2	7/31/2020
Acetone	0.20	0.017	*	mg/m <sup>3</sup>	2	7/31/2020
Benzene	ND	0.0021		mg/m <sup>3</sup>	2	7/31/2020
Bromodichloromethane	ND	0.0046		mg/m <sup>3</sup>	2	7/31/2020
Bromoform	ND	0.018		mg/m <sup>3</sup>	2	7/31/2020
Bromomethane	ND	0.0067		mg/m <sup>3</sup>	2	7/31/2020
Carbon disulfide	0.0024	0.0022		mg/m <sup>3</sup>	2	7/31/2020
Carbon tetrachloride	ND	0.0046		mg/m <sup>3</sup>	2	7/31/2020
Chlorobenzene	ND	0.0032		mg/m <sup>3</sup>	2	7/31/2020
Chloroform	ND	0.0035		mg/m <sup>3</sup>	2	7/31/2020
cis-1,2-Dichloroethene	ND	0.0028		mg/m <sup>3</sup>	2	7/31/2020
cis-1,3-Dichloropropene	ND	0.0032		mg/m <sup>3</sup>	2	7/31/2020
Dibromochloromethane	ND	0.0060		mg/m <sup>3</sup>	2	7/31/2020
Dichlorodifluoromethane	ND	0.0035		mg/m <sup>3</sup>	2	7/31/2020
Ethylbenzene	0.0060	0.0032		mg/m <sup>3</sup>	2	7/31/2020
Isopropyl Alcohol	4.5	0.11		mg/m <sup>3</sup>	25	7/31/2020
m,p-Xylene	0.025	0.0060		mg/m <sup>3</sup>	2	7/31/2020
Methyl tert-butyl ether	ND	0.0025		mg/m <sup>3</sup>	2	7/31/2020
Methylene chloride	ND	0.024		mg/m <sup>3</sup>	2	7/31/2020
Naphthalene	0.0052	0.0035		mg/m <sup>3</sup>	2	7/31/2020
o-Xylene	0.0092	0.0032		mg/m <sup>3</sup>	2	7/31/2020
Styrene	0.010	0.0032		mg/m <sup>3</sup>	2	7/31/2020
Tetrachloroethene	0.16	0.0050		mg/m <sup>3</sup>	2	7/31/2020
Toluene	0.023	0.0028		mg/m <sup>3</sup>	2	7/31/2020
trans-1,2-Dichloroethene	ND	0.0028		mg/m <sup>3</sup>	2	7/31/2020
trans-1,3-Dichloropropene	ND	0.0032		mg/m <sup>3</sup>	2	7/31/2020
Trichloroethene	ND	0.0039		mg/m <sup>3</sup>	2	7/31/2020

**Qualifiers:**  
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 HT - Sample received past holding time  
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 R - RPD outside accepted recovery limits  
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Date Reported: August 04, 2020

**ANALYTICAL RESULTS**

Date Printed: August 04, 2020

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV6-1/4

Work Order: 20071082 Revision 0

Collection Date: 7/28/2020 11:10:00 AM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 20071082-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: <b>7/30/2020</b>		Analyst: <b>MAS</b>
Trichlorofluoromethane	ND	0.0039		mg/m <sup>3</sup>	2	7/31/2020
Vinyl acetate	ND	0.025		mg/m <sup>3</sup>	2	7/31/2020
Vinyl chloride	ND	0.0018		mg/m <sup>3</sup>	2	7/31/2020
Xylenes, Total	0.034	0.0092		mg/m <sup>3</sup>	2	7/31/2020

**Qualifiers:**

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 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
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RL - Reporting / Quantitation Limit for the analysis  
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Date Reported: August 04, 2020

**ANALYTICAL RESULTS**

Date Printed: August 04, 2020

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV7-1/4

Work Order: 20071082 Revision 0

Collection Date: 7/28/2020 8:40:00 AM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 20071082-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: <b>7/30/2020</b>		Analyst: <b>MAS</b>
1,1,1-Trichloroethane	ND	0.043		mg/m <sup>3</sup>	25	7/31/2020
1,1,2-Trichloroethane	ND	0.043		mg/m <sup>3</sup>	25	7/31/2020
1,1-Dichloroethane	ND	0.031		mg/m <sup>3</sup>	25	7/31/2020
1,1-Dichloroethene	ND	0.031		mg/m <sup>3</sup>	25	7/31/2020
1,2,4-Trichlorobenzene	ND	0.058		mg/m <sup>3</sup>	25	7/31/2020
1,2-Dibromoethane	ND	0.058		mg/m <sup>3</sup>	25	7/31/2020
1,2-Dichlorobenzene	ND	0.046		mg/m <sup>3</sup>	25	7/31/2020
1,2-Dichloroethane	ND	0.031		mg/m <sup>3</sup>	25	7/31/2020
1,2-Dichloropropane	ND	0.035		mg/m <sup>3</sup>	25	7/31/2020
1,4-Dichlorobenzene	ND	0.046		mg/m <sup>3</sup>	25	7/31/2020
1,4-Dioxane	ND	0.070		mg/m <sup>3</sup>	25	7/31/2020
2-Butanone	ND	0.058		mg/m <sup>3</sup>	25	7/31/2020
Acetone	ND	0.19	*	mg/m <sup>3</sup>	25	7/31/2020
Benzene	ND	0.023		mg/m <sup>3</sup>	25	7/31/2020
Bromodichloromethane	ND	0.050		mg/m <sup>3</sup>	25	7/31/2020
Bromoform	ND	0.20		mg/m <sup>3</sup>	25	7/31/2020
Bromomethane	ND	0.074		mg/m <sup>3</sup>	25	7/31/2020
Carbon disulfide	ND	0.024		mg/m <sup>3</sup>	25	7/31/2020
Carbon tetrachloride	ND	0.050		mg/m <sup>3</sup>	25	7/31/2020
Chlorobenzene	ND	0.035		mg/m <sup>3</sup>	25	7/31/2020
Chloroform	ND	0.039		mg/m <sup>3</sup>	25	7/31/2020
cis-1,2-Dichloroethene	ND	0.031		mg/m <sup>3</sup>	25	7/31/2020
cis-1,3-Dichloropropene	ND	0.035		mg/m <sup>3</sup>	25	7/31/2020
Dibromochloromethane	ND	0.066		mg/m <sup>3</sup>	25	7/31/2020
Dichlorodifluoromethane	ND	0.039		mg/m <sup>3</sup>	25	7/31/2020
Ethylbenzene	ND	0.035		mg/m <sup>3</sup>	25	7/31/2020
Isopropyl Alcohol	4.5	0.97		mg/m <sup>3</sup>	250	7/31/2020
m,p-Xylene	ND	0.066		mg/m <sup>3</sup>	25	7/31/2020
Methyl tert-butyl ether	ND	0.027		mg/m <sup>3</sup>	25	7/31/2020
Methylene chloride	ND	0.27		mg/m <sup>3</sup>	25	7/31/2020
Naphthalene	ND	0.039		mg/m <sup>3</sup>	25	7/31/2020
o-Xylene	ND	0.035		mg/m <sup>3</sup>	25	7/31/2020
Styrene	ND	0.035		mg/m <sup>3</sup>	25	7/31/2020
Tetrachloroethene	37	0.54		mg/m <sup>3</sup>	250	7/31/2020
Toluene	ND	0.031		mg/m <sup>3</sup>	25	7/31/2020
trans-1,2-Dichloroethene	ND	0.031		mg/m <sup>3</sup>	25	7/31/2020
trans-1,3-Dichloropropene	ND	0.035		mg/m <sup>3</sup>	25	7/31/2020
Trichloroethene	0.50	0.043		mg/m <sup>3</sup>	25	7/31/2020

**Qualifiers:**  
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 HT - Sample received past holding time  
 \* - Non-accredited parameter

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Date Reported: August 04, 2020

**ANALYTICAL RESULTS**

Date Printed: August 04, 2020

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV7-1/4

Work Order: 20071082 Revision 0

Collection Date: 7/28/2020 8:40:00 AM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 20071082-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>				Prep Date: <b>7/30/2020</b>	Analyst: <b>MAS</b>
Trichlorofluoromethane	ND	0.043		mg/m <sup>3</sup>	25	7/31/2020
Vinyl acetate	ND	0.27		mg/m <sup>3</sup>	25	7/31/2020
Vinyl chloride	ND	0.019		mg/m <sup>3</sup>	25	7/31/2020
Xylenes, Total	ND	0.10		mg/m <sup>3</sup>	25	7/31/2020

**Qualifiers:**

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 HT - Sample received past holding time  
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Date Reported: August 04, 2020

**ANALYTICAL RESULTS**

Date Printed: August 04, 2020

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV7-1/4D

Work Order: 20071082 Revision 0

Collection Date: 7/28/2020 10:50:00 AM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 20071082-008

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: <b>7/30/2020</b>		Analyst: <b>MAS</b>
1,1,1-Trichloroethane	ND	0.047		mg/m <sup>3</sup>	25	7/31/2020
1,1,2-Trichloroethane	ND	0.047		mg/m <sup>3</sup>	25	7/31/2020
1,1-Dichloroethane	ND	0.034		mg/m <sup>3</sup>	25	7/31/2020
1,1-Dichloroethene	ND	0.034		mg/m <sup>3</sup>	25	7/31/2020
1,2,4-Trichlorobenzene	ND	0.064		mg/m <sup>3</sup>	25	7/31/2020
1,2-Dibromoethane	ND	0.064		mg/m <sup>3</sup>	25	7/31/2020
1,2-Dichlorobenzene	ND	0.051		mg/m <sup>3</sup>	25	7/31/2020
1,2-Dichloroethane	ND	0.034		mg/m <sup>3</sup>	25	7/31/2020
1,2-Dichloropropane	ND	0.038		mg/m <sup>3</sup>	25	7/31/2020
1,4-Dichlorobenzene	ND	0.051		mg/m <sup>3</sup>	25	7/31/2020
1,4-Dioxane	ND	0.077		mg/m <sup>3</sup>	25	7/31/2020
2-Butanone	ND	0.064		mg/m <sup>3</sup>	25	7/31/2020
Acetone	0.41	0.20	*	mg/m <sup>3</sup>	25	7/31/2020
Benzene	ND	0.026		mg/m <sup>3</sup>	25	7/31/2020
Bromodichloromethane	ND	0.055		mg/m <sup>3</sup>	25	7/31/2020
Bromoform	ND	0.22		mg/m <sup>3</sup>	25	7/31/2020
Bromomethane	ND	0.081		mg/m <sup>3</sup>	25	7/31/2020
Carbon disulfide	ND	0.026		mg/m <sup>3</sup>	25	7/31/2020
Carbon tetrachloride	ND	0.055		mg/m <sup>3</sup>	25	7/31/2020
Chlorobenzene	ND	0.038		mg/m <sup>3</sup>	25	7/31/2020
Chloroform	ND	0.043		mg/m <sup>3</sup>	25	7/31/2020
cis-1,2-Dichloroethene	ND	0.034		mg/m <sup>3</sup>	25	7/31/2020
cis-1,3-Dichloropropene	ND	0.038		mg/m <sup>3</sup>	25	7/31/2020
Dibromochloromethane	ND	0.072		mg/m <sup>3</sup>	25	7/31/2020
Dichlorodifluoromethane	ND	0.043		mg/m <sup>3</sup>	25	7/31/2020
Ethylbenzene	ND	0.038		mg/m <sup>3</sup>	25	7/31/2020
Isopropyl Alcohol	29	2.7		mg/m <sup>3</sup>	625	7/31/2020
m,p-Xylene	ND	0.072		mg/m <sup>3</sup>	25	7/31/2020
Methyl tert-butyl ether	ND	0.030		mg/m <sup>3</sup>	25	7/31/2020
Methylene chloride	ND	0.29		mg/m <sup>3</sup>	25	7/31/2020
Naphthalene	ND	0.043		mg/m <sup>3</sup>	25	7/31/2020
o-Xylene	ND	0.038		mg/m <sup>3</sup>	25	7/31/2020
Styrene	ND	0.038		mg/m <sup>3</sup>	25	7/31/2020
Tetrachloroethene	38	1.5		mg/m <sup>3</sup>	625	7/31/2020
Toluene	0.062	0.034		mg/m <sup>3</sup>	25	7/31/2020
trans-1,2-Dichloroethene	ND	0.034		mg/m <sup>3</sup>	25	7/31/2020
trans-1,3-Dichloropropene	ND	0.038		mg/m <sup>3</sup>	25	7/31/2020
Trichloroethene	0.63	0.047		mg/m <sup>3</sup>	25	7/31/2020

**Qualifiers:**  
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 HT - Sample received past holding time  
 \* - Non-accredited parameter

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 E - Value above quantitation range  
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Date Reported: August 04, 2020

**ANALYTICAL RESULTS**

Date Printed: August 04, 2020

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV7-1/4D

Work Order: 20071082 Revision 0

Collection Date: 7/28/2020 10:50:00 AM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 20071082-008

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: <b>7/30/2020</b>		Analyst: <b>MAS</b>
Trichlorofluoromethane	ND	0.047		mg/m <sup>3</sup>	25	7/31/2020
Vinyl acetate	ND	0.30		mg/m <sup>3</sup>	25	7/31/2020
Vinyl chloride	ND	0.021		mg/m <sup>3</sup>	25	7/31/2020
Xylenes, Total	ND	0.11		mg/m <sup>3</sup>	25	7/31/2020

**Qualifiers:**

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 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded





**Sample Receipt Checklist**

Client Name HYDRODYNAMICS

Date and Time Received: 7/29/2020 3:00:00 PM

Work Order Number 20071082

Received by: EAA

Checklist completed by: SL 7/29/20  
Signature Date

Reviewed by: A-A 7/30/2020  
Initials Date

Matrix: Carrier name STAT Analysis

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels/containers? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Container or Temp Blank temperature in compliance? Yes  No  Temperature Ambient °C
- Water - VOA vials have zero headspace?  No VOA vials submitted  Yes  No
- Water - Samples pH checked? Yes  No  Checked by: \_\_\_\_\_
- Water - Samples properly preserved? Yes  No  pH Adjusted? \_\_\_\_\_

Any No response must be detailed in the comments section below.

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Comments: \_\_\_\_\_

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Client / Person contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Response: \_\_\_\_\_

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**STAT** Analysis Corporation

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August 03, 2020

Hydrodynamics Consultants, Inc.  
5403 Patton Drive  
Lisle, IL 60532

Telephone: (630) 724-0098  
Fax: (800) 881-2051

Analytical Report for STAT Work Order: 20071083 Revision 0

RE: Westwood Cleaners, 8731 W. North Avenue, Wauwatosa, WI

Dear Hydrodynamics Consultants, Inc.:

STAT Analysis received 7 samples for the referenced project on 7/29/2020 3:00:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements specified in WI DNR Chapter NR 149 (Certification Number 399099910). Analyses were performed in accordance with methods as referenced on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. A listing of accredited methods/parameters can also be provided.

For sample results requiring adjustment for dilutions, the detection and reporting limits are adjusted for the corresponding dilution factor. Analytical results expressed on a dry weight basis have units of mg/Kg-dry or µg/Kg-dry on the analytical report. Corresponding reporting limits are adjusted for dry weight.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Sebastian Slazyk  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples as received and tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

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**Client:** Hydrodynamics Consultants, Inc.**Project:** Westwood Cleaners, 8731 W. North Avenue, Wauwato**Work Order Sample Summary****Work Order:** 20071083 Revision 0

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<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
20071083-001A	MW1-1/4		7/28/2020 12:05:00 PM	7/29/2020
20071083-002A	MW2-1/4		7/28/2020 12:15:00 PM	7/29/2020
20071083-003A	MW3-1/4		7/28/2020 12:25:00 PM	7/29/2020
20071083-004A	MW4-1/4		7/28/2020 12:40:00 PM	7/29/2020
20071083-005A	MW5-1/4		7/28/2020 12:55:00 PM	7/29/2020
20071083-006A	MW6-1/4		7/28/2020 1:15:00 PM	7/29/2020
20071083-007A	Trip Blank		7/28/2020	7/29/2020

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**CLIENT:** Hydrodynamics Consultants, Inc.  
**Project:** Westwood Cleaners, 8731 W. North Avenue, Wauwatosa, W  
**Work Order:** 20071083 Revision 0

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**CASE NARRATIVE**

Sample MW2-1/4 (20071083-002) had recovery of VOC surrogate 4-Bromofluorobenzene outside of control limits (62.8% recovery, QC Limits: 79-114%). Recovery of all other surrogates were within control limits.

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: August 03, 2020

Date Printed: August 03, 2020

**ANALYTICAL RESULTS**

CLIENT: Hydrodynamics Consultants, Inc.

Work Order: 20071083 Revision 0

Project: Westwood Cleaners, 8731 W. North Avenue, Wauwat

Lab ID: 20071083-001

Client Sample ID: MW1-1/4

Collection Date: 7/28/2020 12:05:00 PM

Matrix: AQUEOUS

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>							
		<b>SW8260B (SW5030B)</b>					
				Prep Date:			Analyst: <b>BAL</b>
Acetone	ND	0.020	0.0031		mg/L	1	7/30/2020
Benzene	ND	0.0050	0.0002		mg/L	1	7/30/2020
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	7/30/2020
Bromoform	ND	0.0010	0.0003		mg/L	1	7/30/2020
Bromomethane	ND	0.0050	0.002		mg/L	1	7/30/2020
2-Butanone	ND	0.020	0.0016		mg/L	1	7/30/2020
Carbon disulfide	ND	0.010	0.0003		mg/L	1	7/30/2020
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	7/30/2020
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	7/30/2020
Chloroethane	ND	0.010	0.0005		mg/L	1	7/30/2020
Chloroform	ND	0.0010	0.0001		mg/L	1	7/30/2020
Chloromethane	ND	0.010	0.0003		mg/L	1	7/30/2020
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	7/30/2020
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	7/30/2020
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	7/30/2020
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	7/30/2020
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	7/30/2020
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	7/30/2020
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	7/30/2020
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	7/30/2020
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	7/30/2020
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	7/30/2020
2-Hexanone	ND	0.020	0.0002		mg/L	1	7/30/2020
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	7/30/2020
Methylene chloride	ND	0.0050	0.0002		mg/L	1	7/30/2020
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	7/30/2020
Styrene	ND	0.0050	0.0003		mg/L	1	7/30/2020
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	7/30/2020
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	7/30/2020
Toluene	ND	0.0050	0.0004		mg/L	1	7/30/2020
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	7/30/2020
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	7/30/2020
Trichloroethene	ND	0.0050	0.0003		mg/L	1	7/30/2020
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	7/30/2020
Xylenes, Total	ND	0.015	0.001		mg/L	1	7/30/2020

**Qualifiers:**

ND - Not Detected at the LOD

J - Analyte detected below LOQ

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: August 03, 2020

**ANALYTICAL RESULTS**

Date Printed: August 03, 2020

**CLIENT:** Hydrodynamics Consultants, Inc.  
**Work Order:** 20071083 Revision 0  
**Project:** Westwood Cleaners, 8731 W. North Avenue, Wauwat  
**Lab ID:** 20071083-002

**Client Sample ID:** MW2-1/4  
**Collection Date:** 7/28/2020 12:15:00 PM  
**Matrix:** AQUEOUS

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW8260B (SW5030B)</b>		Prep Date:		Analyst: <b>BAL</b>	
Acetone	ND	0.020	0.0031		mg/L	1	7/30/2020
Benzene	ND	0.0050	0.0002		mg/L	1	7/30/2020
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	7/30/2020
Bromoform	ND	0.0010	0.0003		mg/L	1	7/30/2020
Bromomethane	ND	0.0050	0.002		mg/L	1	7/30/2020
2-Butanone	ND	0.020	0.0016		mg/L	1	7/30/2020
Carbon disulfide	ND	0.010	0.0003		mg/L	1	7/30/2020
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	7/30/2020
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	7/30/2020
Chloroethane	ND	0.010	0.0005		mg/L	1	7/30/2020
Chloroform	ND	0.0010	0.0001		mg/L	1	7/30/2020
Chloromethane	ND	0.010	0.0003		mg/L	1	7/30/2020
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	7/30/2020
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	7/30/2020
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	7/30/2020
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	7/30/2020
cis-1,2-Dichloroethene	0.010	0.0050	0.0002		mg/L	1	7/30/2020
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	7/30/2020
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	7/30/2020
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	7/30/2020
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	7/30/2020
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	7/30/2020
2-Hexanone	ND	0.020	0.0002		mg/L	1	7/30/2020
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	7/30/2020
Methylene chloride	ND	0.0050	0.0002		mg/L	1	7/30/2020
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	7/30/2020
Styrene	ND	0.0050	0.0003		mg/L	1	7/30/2020
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	7/30/2020
Tetrachloroethene	0.099	0.050	0.003		mg/L	10	7/31/2020
Toluene	ND	0.0050	0.0004		mg/L	1	7/30/2020
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	7/30/2020
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	7/30/2020
Trichloroethene	0.089	0.0050	0.0003		mg/L	1	7/30/2020
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	7/30/2020
Xylenes, Total	ND	0.015	0.001		mg/L	1	7/30/2020

**Qualifiers:** ND - Not Detected at the LOD  
 J - Analyte detected below LOQ  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: August 03, 2020

**ANALYTICAL RESULTS**

Date Printed: August 03, 2020

**CLIENT:** Hydrodynamics Consultants, Inc.  
**Work Order:** 20071083 Revision 0  
**Project:** Westwood Cleaners, 8731 W. North Avenue, Wauwat  
**Lab ID:** 20071083-003

**Client Sample ID:** MW3-1/4  
**Collection Date:** 7/28/2020 12:25:00 PM  
**Matrix:** AQUEOUS

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
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Volatile Organic Compounds by GC/MS	SW8260B (SW5030B)			Prep Date:	Analyst: BAL		
Acetone	ND	0.020	0.0031		mg/L	1	7/30/2020
Benzene	ND	0.0050	0.0002		mg/L	1	7/30/2020
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	7/30/2020
Bromoform	ND	0.0010	0.0003		mg/L	1	7/30/2020
Bromomethane	ND	0.0050	0.002		mg/L	1	7/30/2020
2-Butanone	ND	0.020	0.0016		mg/L	1	7/30/2020
Carbon disulfide	ND	0.010	0.0003		mg/L	1	7/30/2020
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	7/30/2020
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	7/30/2020
Chloroethane	ND	0.010	0.0005		mg/L	1	7/30/2020
Chloroform	ND	0.0010	0.0001		mg/L	1	7/30/2020
Chloromethane	ND	0.010	0.0003		mg/L	1	7/30/2020
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	7/30/2020
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	7/30/2020
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	7/30/2020
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	7/30/2020
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	7/30/2020
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	7/30/2020
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	7/30/2020
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	7/30/2020
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	7/30/2020
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	7/30/2020
2-Hexanone	ND	0.020	0.0002		mg/L	1	7/30/2020
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	7/30/2020
Methylene chloride	ND	0.0050	0.0002		mg/L	1	7/30/2020
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	7/30/2020
Styrene	ND	0.0050	0.0003		mg/L	1	7/30/2020
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	7/30/2020
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	7/30/2020
Toluene	ND	0.0050	0.0004		mg/L	1	7/30/2020
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	7/30/2020
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	7/30/2020
Trichloroethene	ND	0.0050	0.0003		mg/L	1	7/30/2020
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	7/30/2020
Xylenes, Total	ND	0.015	0.001		mg/L	1	7/30/2020

**Qualifiers:**

ND - Not Detected at the LOD

J - Analyte detected below LOQ

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Date Reported: August 03, 2020

**ANALYTICAL RESULTS**

Date Printed: August 03, 2020

CLIENT: Hydrodynamics Consultants, Inc.

Work Order: 20071083 Revision 0

Project: Westwood Cleaners, 8731 W. North Avenue, Wauwat

Lab ID: 20071083-004

Client Sample ID: MW4-1/4

Collection Date: 7/28/2020 12:40:00 PM

Matrix: AQUEOUS

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>							
		<b>SW8260B (SW5030B)</b>					
							Prep Date:
							Analyst: <b>BAL</b>
Acetone	ND	0.020	0.0031		mg/L	1	7/30/2020
Benzene	ND	0.0050	0.0002		mg/L	1	7/30/2020
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	7/30/2020
Bromoform	ND	0.0010	0.0003		mg/L	1	7/30/2020
Bromomethane	ND	0.0050	0.002		mg/L	1	7/30/2020
2-Butanone	ND	0.020	0.0016		mg/L	1	7/30/2020
Carbon disulfide	ND	0.010	0.0003		mg/L	1	7/30/2020
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	7/30/2020
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	7/30/2020
Chloroethane	ND	0.010	0.0005		mg/L	1	7/30/2020
Chloroform	ND	0.0010	0.0001		mg/L	1	7/30/2020
Chloromethane	ND	0.010	0.0003		mg/L	1	7/30/2020
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	7/30/2020
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	7/30/2020
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	7/30/2020
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	7/30/2020
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	7/30/2020
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	7/30/2020
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	7/30/2020
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	7/30/2020
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	7/30/2020
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	7/30/2020
2-Hexanone	ND	0.020	0.0002		mg/L	1	7/30/2020
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	7/30/2020
Methylene chloride	ND	0.0050	0.0002		mg/L	1	7/30/2020
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	7/30/2020
Styrene	ND	0.0050	0.0003		mg/L	1	7/30/2020
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	7/30/2020
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	7/30/2020
Toluene	ND	0.0050	0.0004		mg/L	1	7/30/2020
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	7/30/2020
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	7/30/2020
Trichloroethene	ND	0.0050	0.0003		mg/L	1	7/30/2020
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	7/30/2020
Xylenes, Total	ND	0.015	0.001		mg/L	1	7/30/2020

<b>Qualifiers:</b>	ND - Not Detected at the LOD	LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis
	J - Analyte detected below LOQ	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded



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Date Reported: August 03, 2020

Date Printed: August 03, 2020

**ANALYTICAL RESULTS**

CLIENT: Hydrodynamics Consultants, Inc.

Work Order: 20071083 Revision 0

Project: Westwood Cleaners, 8731 W. North Avenue, Wauwat

Lab ID: 20071083-005

Client Sample ID: MW5-1/4

Collection Date: 7/28/2020 12:55:00 PM

Matrix: AQUEOUS

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>							
		<b>SW8260B (SW5030B)</b>					
							Prep Date: Analyst: <b>BAL</b>
Acetone	ND	0.020	0.0031		mg/L	1	7/30/2020
Benzene	ND	0.0050	0.0002		mg/L	1	7/30/2020
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	7/30/2020
Bromoform	ND	0.0010	0.0003		mg/L	1	7/30/2020
Bromomethane	ND	0.0050	0.002		mg/L	1	7/30/2020
2-Butanone	ND	0.020	0.0016		mg/L	1	7/30/2020
Carbon disulfide	ND	0.010	0.0003		mg/L	1	7/30/2020
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	7/30/2020
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	7/30/2020
Chloroethane	ND	0.010	0.0005		mg/L	1	7/30/2020
Chloroform	ND	0.0010	0.0001		mg/L	1	7/30/2020
Chloromethane	ND	0.010	0.0003		mg/L	1	7/30/2020
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	7/30/2020
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	7/30/2020
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	7/30/2020
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	7/30/2020
cis-1,2-Dichloroethene	0.019	0.0050	0.0002		mg/L	1	7/30/2020
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	7/30/2020
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	7/30/2020
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	7/30/2020
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	7/30/2020
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	7/30/2020
2-Hexanone	ND	0.020	0.0002		mg/L	1	7/30/2020
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	7/30/2020
Methylene chloride	ND	0.0050	0.0002		mg/L	1	7/30/2020
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	7/30/2020
Styrene	ND	0.0050	0.0003		mg/L	1	7/30/2020
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	7/30/2020
Tetrachloroethene	1.7	0.050	0.003		mg/L	10	7/31/2020
Toluene	ND	0.0050	0.0004		mg/L	1	7/30/2020
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	7/30/2020
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	7/30/2020
Trichloroethene	0.12	0.0050	0.0003		mg/L	1	7/30/2020
Vinyl chloride	0.0061	0.0020	0.0003		mg/L	1	7/30/2020
Xylenes, Total	ND	0.015	0.001		mg/L	1	7/30/2020

**Qualifiers:**

ND - Not Detected at the LOD

J - Analyte detected below LOQ

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: August 03, 2020

**ANALYTICAL RESULTS**

Date Printed: August 03, 2020

CLIENT: Hydrodynamics Consultants, Inc.

Client Sample ID: MW6-1/4

Work Order: 20071083 Revision 0

Collection Date: 7/28/2020 1:15:00 PM

Project: Westwood Cleaners, 8731 W. North Avenue, Wauwat

Matrix: AQUEOUS

Lab ID: 20071083-006

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>							
		<b>SW8260B (SW5030B)</b>					
							Prep Date: Analyst: <b>BAL</b>
Acetone	ND	0.020	0.0031		mg/L	1	7/30/2020
Benzene	ND	0.0050	0.0002		mg/L	1	7/30/2020
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	7/30/2020
Bromoform	ND	0.0010	0.0003		mg/L	1	7/30/2020
Bromomethane	ND	0.0050	0.002		mg/L	1	7/30/2020
2-Butanone	ND	0.020	0.0016		mg/L	1	7/30/2020
Carbon disulfide	ND	0.010	0.0003		mg/L	1	7/30/2020
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	7/30/2020
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	7/30/2020
Chloroethane	ND	0.010	0.0005		mg/L	1	7/30/2020
Chloroform	ND	0.0010	0.0001		mg/L	1	7/30/2020
Chloromethane	ND	0.010	0.0003		mg/L	1	7/30/2020
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	7/30/2020
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	7/30/2020
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	7/30/2020
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	7/30/2020
cis-1,2-Dichloroethene	0.0071	0.0050	0.0002		mg/L	1	7/30/2020
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	7/30/2020
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	7/30/2020
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	7/30/2020
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	7/30/2020
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	7/30/2020
2-Hexanone	ND	0.020	0.0002		mg/L	1	7/30/2020
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	7/30/2020
Methylene chloride	ND	0.0050	0.0002		mg/L	1	7/30/2020
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	7/30/2020
Styrene	ND	0.0050	0.0003		mg/L	1	7/30/2020
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	7/30/2020
Tetrachloroethene	0.55	0.050	0.003		mg/L	10	7/31/2020
Toluene	ND	0.0050	0.0004		mg/L	1	7/30/2020
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	7/30/2020
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	7/30/2020
Trichloroethene	0.038	0.0050	0.0003		mg/L	1	7/30/2020
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	7/30/2020
Xylenes, Total	ND	0.015	0.001		mg/L	1	7/30/2020

<b>Qualifiers:</b>	ND - Not Detected at the LOD	LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis
	J - Analyte detected below LOQ	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

**Date Reported:** August 03, 2020**ANALYTICAL RESULTS****Date Printed:** August 03, 2020**CLIENT:** Hydrodynamics Consultants, Inc.**Client Sample ID:** Trip Blank**Work Order:** 20071083 Revision 0**Collection Date:** 7/28/2020**Project:** Westwood Cleaners, 8731 W. North Avenue, Wauwat**Matrix:** AQUEOUS**Lab ID:** 20071083-007**Analyses**                      **Result**      **LOQ**      **LOD**      **Qualifier**      **Units**      **DF**      **Date Analyzed**

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>							
		<b>SW8260B (SW5030B)</b>					
				Prep Date:			Analyst: <b>BAL</b>
Acetone	ND	0.020	0.0031		mg/L	1	7/30/2020
Benzene	ND	0.0050	0.0002		mg/L	1	7/30/2020
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	7/30/2020
Bromoform	ND	0.0010	0.0003		mg/L	1	7/30/2020
Bromomethane	ND	0.0050	0.002		mg/L	1	7/30/2020
2-Butanone	ND	0.020	0.0016		mg/L	1	7/30/2020
Carbon disulfide	ND	0.010	0.0003		mg/L	1	7/30/2020
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	7/30/2020
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	7/30/2020
Chloroethane	ND	0.010	0.0005		mg/L	1	7/30/2020
Chloroform	ND	0.0010	0.0001		mg/L	1	7/30/2020
Chloromethane	ND	0.010	0.0003		mg/L	1	7/30/2020
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	7/30/2020
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	7/30/2020
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	7/30/2020
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	7/30/2020
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	7/30/2020
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	7/30/2020
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	7/30/2020
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	7/30/2020
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	7/30/2020
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	7/30/2020
2-Hexanone	ND	0.020	0.0002		mg/L	1	7/30/2020
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	7/30/2020
Methylene chloride	ND	0.0050	0.0002		mg/L	1	7/30/2020
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	7/30/2020
Styrene	ND	0.0050	0.0003		mg/L	1	7/30/2020
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	7/30/2020
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	7/30/2020
Toluene	ND	0.0050	0.0004		mg/L	1	7/30/2020
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	7/30/2020
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	7/30/2020
Trichloroethene	ND	0.0050	0.0003		mg/L	1	7/30/2020
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	7/30/2020
Xylenes, Total	ND	0.015	0.001		mg/L	1	7/30/2020

**Qualifiers:**

ND - Not Detected at the LOD

J - Analyte detected below LOQ

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

# STAT Analysis Corporation

2201 West Campbell Park Drive, Chicago, Illinois 60612-3547 Phone: (312) 733-0551 Fax: (312) 733-2386  
 e-mail address: STATInfo@STATAnalysis.com A I H A accredited 10248, N V L A P accredited 101202-0

## CHAIN OF CUSTODY RECORD

No: \_\_\_\_\_ of \_\_\_\_\_ Page: \_\_\_\_\_

Company: Hydrodynamics Consultant, Inc.		Client Tracking No.:					
Project Number:		Quote No.:					
Project Name: Westwood Cleaners		Turn Around:					
Location/Address: 8731 W. North Avenue, Wauwatosa, WI		Results Needed:					
Sampler(s): Mike Wan		Lab No.:					
Report To: Mike Wan		am pm					
QC Level: 1	2	3	4	Remarks			
Regulatory Program: NPEDS/MWRD RCRA SDWA SRP TACO Other:		Remarks					
Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab.	Preserv.	No. of Containers
MW1-1/4	7/28/2020	12:05	GW	x			3
MW2-1/4	}	12:15	}				
MW3-1/4		12:25					
MW4-1/4		12:40					
MW5-1/4		12:55					
MW6-1/4		1:15					
<i>Trip Blank</i>							
VOCs							
				X			001
				X			002
				X			003
				X			004
				X			005
				X			006
				X			007

Laboratory Use:		Sample Verification:	
- Container OK	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
- Samples Leaking	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
- Refrigerated (Temp: <u>3.4°C</u> )	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
- Sample Labels Match Sample ID	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>

Relinquished By: (Signature)	Date/Time: 7/29/2020	Work Order No.: 20071083
Received By: (Signature)	Date/Time: 7/29/20 13:50	Preservation Code:
Relinquished By: (Signature)	Date/Time: 7/29/20 15:00	A = None B = HNO C = NaOH
Received By: (Signature)	Date/Time: 7/29/20 15:00	D = H <sub>2</sub> SO <sub>4</sub> E = HCl F = 503S/EnCore

Sample Receipt Checklist

Client Name HYDRODYNAMICS

Date and Time Received: 7/29/2020 3:00:00 PM

Work Order Number 20071083

Received by: EAA

Checklist completed by: EL 7/29/20  
Signature Date

Reviewed by: ADN 7/30/20  
Initials Date

Matrix: Carrier name STAT Analysis

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels/containers? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Container of Temp Blank temperature in compliance? Yes  No  Temperature 3.4 °C
- Water - VOA vials have zero headspace? No VOA vials submitted  Yes  No
- Water - Samples pH checked? Yes  No  Checked by: \_\_\_\_\_
- Water - Samples properly preserved? Yes  No  pH Adjusted? \_\_\_\_\_

Any No response must be detailed in the comments section below.

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Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Client / Person contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Response: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**STAT** Analysis Corporation

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

August 04, 2020

Hydrodynamics Consultants, Inc.  
5403 Patton Drive  
Lisle, IL 60532

Telephone: (630) 724-0098  
Fax: (800) 881-2051

Analytical Report for STAT Work Order: 20071084 Revision 0

RE: Westwood Cleaners, 8731 West North Ave., Wauwatosa, WI 53226

Dear Hydrodynamics Consultants, Inc.:

STAT Analysis received 9 samples for the referenced project on 7/29/2020 3:00:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements specified in WI DNR Chapter NR 149 (Certification Number 399099910). Analyses were performed in accordance with methods as referenced on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. A listing of accredited methods/parameters can also be provided.

For sample results requiring adjustment for dilutions, the detection and reporting limits are adjusted for the corresponding dilution factor. Analytical results expressed on a dry weight basis have units of mg/Kg-dry or  $\mu\text{g}/\text{Kg-dry}$  on the analytical report. Corresponding reporting limits are adjusted for dry weight.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Justice Kwateng  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples as received and tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

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**Client:** Hydrodynamics Consultants, Inc.**Project:** Westwood Cleaners, 8731 West North Ave., Wauwatos**Work Order Sample Summary****Work Order:** 20071084 Revision 0

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<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
20071084-001A	NSB13-A		7/28/2020 11:50:00 AM	7/29/2020
20071084-001B	NSB13-A		7/28/2020 11:50:00 AM	7/29/2020
20071084-002A	NSB13-B		7/28/2020 12:26:00 PM	7/29/2020
20071084-002B	NSB13-B		7/28/2020 12:26:00 PM	7/29/2020
20071084-003A	NSB13-C		7/28/2020 12:59:00 PM	7/29/2020
20071084-003B	NSB13-C		7/28/2020 12:59:00 PM	7/29/2020
20071084-004A	NSB14-A		7/28/2020 1:46:00 PM	7/29/2020
20071084-004B	NSB14-A		7/28/2020 1:46:00 PM	7/29/2020
20071084-005A	NSB14-B		7/28/2020 2:10:00 PM	7/29/2020
20071084-005B	NSB14-B		7/28/2020 2:10:00 PM	7/29/2020
20071084-006A	NSB14-C		7/28/2020 2:31:00 PM	7/29/2020
20071084-006B	NSB14-C		7/28/2020 2:31:00 PM	7/29/2020
20071084-007A	NSB15-A		7/28/2020 3:03:00 PM	7/29/2020
20071084-007B	NSB15-A		7/28/2020 3:03:00 PM	7/29/2020
20071084-008A	NSB15-B		7/28/2020 3:21:00 PM	7/29/2020
20071084-008B	NSB15-B		7/28/2020 3:21:00 PM	7/29/2020
20071084-009A	NSB15-C		7/28/2020 3:40:00 PM	7/29/2020
20071084-009B	NSB15-C		7/28/2020 3:40:00 PM	7/29/2020

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**CLIENT:** Hydrodynamics Consultants, Inc.  
**Project:** Westwood Cleaners, 8731 West North Ave., Wauwatosa, WI  
**Work Order:** 20071084 Revision 0

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**CASE NARRATIVE**

Sample NSB15-C (20071084-009) had recovery of VOC surrogate 1,2-Dichloroethane-d4 outside of control limits (144% recovery, QC Limits: 71-143%). Recovery of all other surrogates were within control limits.



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Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: August 04, 2020

**ANALYTICAL RESULTS**

Date Printed: August 04, 2020

**CLIENT:** Hydrodynamics Consultants, Inc.  
**Work Order:** 20071084 Revision 0  
**Project:** Westwood Cleaners, 8731 West North Ave., Wauwato  
**Lab ID:** 20071084-001

**Client Sample ID:** NSB13-A  
**Collection Date:** 7/28/2020 11:50:00 AM  
**Matrix:** SOIL

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
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Volatile Organic Compounds by GC/MS	SW5035/8260B			Prep Date: 7/30/2020	Analyst: CBG		
Acetone	ND	0.082	0.0025		mg/Kg-dry	1	7/31/2020
Benzene	ND	0.0055	0.00022		mg/Kg-dry	1	7/31/2020
Bromodichloromethane	ND	0.0055	0.00044		mg/Kg-dry	1	7/31/2020
Bromoform	ND	0.0055	0.00044		mg/Kg-dry	1	7/31/2020
Bromomethane	ND	0.011	0.00055		mg/Kg-dry	1	7/31/2020
2-Butanone	ND	0.082	0.0016		mg/Kg-dry	1	7/31/2020
Carbon disulfide	ND	0.055	0.00022		mg/Kg-dry	1	7/31/2020
Carbon tetrachloride	ND	0.0055	0.00033		mg/Kg-dry	1	7/31/2020
Chlorobenzene	ND	0.0055	0.00022		mg/Kg-dry	1	7/31/2020
Chloroethane	ND	0.011	0.00044		mg/Kg-dry	1	7/31/2020
Chloroform	ND	0.0055	0.00022		mg/Kg-dry	1	7/31/2020
Chloromethane	ND	0.011	0.00033		mg/Kg-dry	1	7/31/2020
Dibromochloromethane	ND	0.0055	0.00044		mg/Kg-dry	1	7/31/2020
1,1-Dichloroethane	ND	0.0055	0.00033		mg/Kg-dry	1	7/31/2020
1,2-Dichloroethane	ND	0.0055	0.00066		mg/Kg-dry	1	7/31/2020
1,1-Dichloroethene	ND	0.0055	0.00033		mg/Kg-dry	1	7/31/2020
cis-1,2-Dichloroethene	ND	0.0055	0.00033		mg/Kg-dry	1	7/31/2020
trans-1,2-Dichloroethene	ND	0.0055	0.00033		mg/Kg-dry	1	7/31/2020
1,2-Dichloropropane	ND	0.0055	0.00044		mg/Kg-dry	1	7/31/2020
cis-1,3-Dichloropropene	ND	0.0022	0.00022		mg/Kg-dry	1	7/31/2020
trans-1,3-Dichloropropene	ND	0.0022	0.00033		mg/Kg-dry	1	7/31/2020
Ethylbenzene	ND	0.0055	0.00011		mg/Kg-dry	1	7/31/2020
2-Hexanone	ND	0.022	0.00088		mg/Kg-dry	1	7/31/2020
4-Methyl-2-pentanone	ND	0.022	0.00033		mg/Kg-dry	1	7/31/2020
Methylene chloride	ND	0.011	0.00088		mg/Kg-dry	1	7/31/2020
Methyl tert-butyl ether	ND	0.0055	0.00022		mg/Kg-dry	1	7/31/2020
Styrene	ND	0.0055	0.00022		mg/Kg-dry	1	7/31/2020
1,1,2,2-Tetrachloroethane	ND	0.0055	0.00022		mg/Kg-dry	1	7/31/2020
Tetrachloroethene	ND	0.0055	0.00033		mg/Kg-dry	1	7/31/2020
Toluene	ND	0.0055	0.00022		mg/Kg-dry	1	7/31/2020
1,1,1-Trichloroethane	ND	0.0055	0.00022		mg/Kg-dry	1	7/31/2020
1,1,2-Trichloroethane	ND	0.0055	0.00055		mg/Kg-dry	1	7/31/2020
Trichloroethene	ND	0.0055	0.00022		mg/Kg-dry	1	7/31/2020
Vinyl chloride	ND	0.0055	0.00044		mg/Kg-dry	1	7/31/2020
Xylenes, Total	ND	0.016	0.00044		mg/Kg-dry	1	7/31/2020

Percent Moisture	D2974			Prep Date: 7/30/2020	Analyst: RW		
Percent Moisture	18.4	0.2	0.1	*	wt%	1	7/31/2020

**Qualifiers:**  
 ND - Not Detected at the LOD  
 J - Analyte detected below LOQ  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter  
 LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: August 04, 2020

**ANALYTICAL RESULTS**

Date Printed: August 04, 2020

**CLIENT:** Hydrodynamics Consultants, Inc.  
**Work Order:** 20071084 Revision 0  
**Project:** Westwood Cleaners, 8731 West North Ave., Wauwato  
**Lab ID:** 20071084-002

**Client Sample ID:** NSB13-B  
**Collection Date:** 7/28/2020 12:26:00 PM  
**Matrix:** SOIL

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: <b>7/30/2020</b>		Analyst: <b>CBG</b>	
Acetone	ND	0.071	0.0022		mg/Kg-dry	1	7/31/2020
Benzene	ND	0.0047	0.00019		mg/Kg-dry	1	7/31/2020
Bromodichloromethane	ND	0.0047	0.00038		mg/Kg-dry	1	7/31/2020
Bromoform	ND	0.0047	0.00038		mg/Kg-dry	1	7/31/2020
Bromomethane	ND	0.0094	0.00047		mg/Kg-dry	1	7/31/2020
2-Butanone	ND	0.071	0.0014		mg/Kg-dry	1	7/31/2020
Carbon disulfide	ND	0.047	0.00019		mg/Kg-dry	1	7/31/2020
Carbon tetrachloride	ND	0.0047	0.00028		mg/Kg-dry	1	7/31/2020
Chlorobenzene	ND	0.0047	0.00019		mg/Kg-dry	1	7/31/2020
Chloroethane	ND	0.0094	0.00038		mg/Kg-dry	1	7/31/2020
Chloroform	ND	0.0047	0.00019		mg/Kg-dry	1	7/31/2020
Chloromethane	ND	0.0094	0.00028		mg/Kg-dry	1	7/31/2020
Dibromochloromethane	ND	0.0047	0.00038		mg/Kg-dry	1	7/31/2020
1,1-Dichloroethane	ND	0.0047	0.00028		mg/Kg-dry	1	7/31/2020
1,2-Dichloroethane	ND	0.0047	0.00057		mg/Kg-dry	1	7/31/2020
1,1-Dichloroethene	ND	0.0047	0.00028		mg/Kg-dry	1	7/31/2020
cis-1,2-Dichloroethene	ND	0.0047	0.00028		mg/Kg-dry	1	7/31/2020
trans-1,2-Dichloroethene	ND	0.0047	0.00028		mg/Kg-dry	1	7/31/2020
1,2-Dichloropropane	ND	0.0047	0.00038		mg/Kg-dry	1	7/31/2020
cis-1,3-Dichloropropene	ND	0.0019	0.00019		mg/Kg-dry	1	7/31/2020
trans-1,3-Dichloropropene	ND	0.0019	0.00028		mg/Kg-dry	1	7/31/2020
Ethylbenzene	ND	0.0047	0.000094		mg/Kg-dry	1	7/31/2020
2-Hexanone	ND	0.019	0.00075		mg/Kg-dry	1	7/31/2020
4-Methyl-2-pentanone	ND	0.019	0.00028		mg/Kg-dry	1	7/31/2020
Methylene chloride	ND	0.0094	0.00075		mg/Kg-dry	1	7/31/2020
Methyl tert-butyl ether	ND	0.0047	0.00019		mg/Kg-dry	1	7/31/2020
Styrene	ND	0.0047	0.00019		mg/Kg-dry	1	7/31/2020
1,1,2,2-Tetrachloroethane	ND	0.0047	0.00019		mg/Kg-dry	1	7/31/2020
Tetrachloroethene	ND	0.0047	0.00028		mg/Kg-dry	1	7/31/2020
Toluene	ND	0.0047	0.00019		mg/Kg-dry	1	7/31/2020
1,1,1-Trichloroethane	ND	0.0047	0.00019		mg/Kg-dry	1	7/31/2020
1,1,2-Trichloroethane	ND	0.0047	0.00047		mg/Kg-dry	1	7/31/2020
Trichloroethene	ND	0.0047	0.00019		mg/Kg-dry	1	7/31/2020
Vinyl chloride	ND	0.0047	0.00038		mg/Kg-dry	1	7/31/2020
Xylenes, Total	ND	0.014	0.00038		mg/Kg-dry	1	7/31/2020
<b>Percent Moisture</b>		<b>D2974</b>		Prep Date: <b>7/30/2020</b>		Analyst: <b>RW</b>	
Percent Moisture	18.0	0.2	0.1	*	wt%	1	7/31/2020

**Qualifiers:** ND - Not Detected at the LOD  
 J - Analyte detected below LOQ  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**STAT Analysis Corporation**

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: August 04, 2020

**ANALYTICAL RESULTS**

Date Printed: August 04, 2020

**CLIENT:** Hydrodynamics Consultants, Inc.  
**Work Order:** 20071084 Revision 0  
**Project:** Westwood Cleaners, 8731 West North Ave., Wauwato  
**Lab ID:** 20071084-003

**Client Sample ID:** NSB13-C  
**Collection Date:** 7/28/2020 12:59:00 PM  
**Matrix:** SOIL

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		<b>Prep Date: 7/30/2020</b>		<b>Analyst: CBG</b>	
Acetone	ND	0.063	0.0019		mg/Kg-dry	1	7/31/2020
Benzene	ND	0.0042	0.00017		mg/Kg-dry	1	7/31/2020
Bromodichloromethane	ND	0.0042	0.00034		mg/Kg-dry	1	7/31/2020
Bromoform	ND	0.0042	0.00034		mg/Kg-dry	1	7/31/2020
Bromomethane	ND	0.0084	0.00042		mg/Kg-dry	1	7/31/2020
2-Butanone	ND	0.063	0.0013		mg/Kg-dry	1	7/31/2020
Carbon disulfide	ND	0.042	0.00017		mg/Kg-dry	1	7/31/2020
Carbon tetrachloride	ND	0.0042	0.00025		mg/Kg-dry	1	7/31/2020
Chlorobenzene	ND	0.0042	0.00017		mg/Kg-dry	1	7/31/2020
Chloroethane	ND	0.0084	0.00034		mg/Kg-dry	1	7/31/2020
Chloroform	ND	0.0042	0.00017		mg/Kg-dry	1	7/31/2020
Chloromethane	ND	0.0084	0.00025		mg/Kg-dry	1	7/31/2020
Dibromochloromethane	ND	0.0042	0.00034		mg/Kg-dry	1	7/31/2020
1,1-Dichloroethane	ND	0.0042	0.00025		mg/Kg-dry	1	7/31/2020
1,2-Dichloroethane	ND	0.0042	0.00051		mg/Kg-dry	1	7/31/2020
1,1-Dichloroethene	ND	0.0042	0.00025		mg/Kg-dry	1	7/31/2020
cis-1,2-Dichloroethene	ND	0.0042	0.00025		mg/Kg-dry	1	7/31/2020
trans-1,2-Dichloroethene	ND	0.0042	0.00025		mg/Kg-dry	1	7/31/2020
1,2-Dichloropropane	ND	0.0042	0.00034		mg/Kg-dry	1	7/31/2020
cis-1,3-Dichloropropene	ND	0.0017	0.00017		mg/Kg-dry	1	7/31/2020
trans-1,3-Dichloropropene	ND	0.0017	0.00025		mg/Kg-dry	1	7/31/2020
Ethylbenzene	ND	0.0042	0.000084		mg/Kg-dry	1	7/31/2020
2-Hexanone	ND	0.017	0.00067		mg/Kg-dry	1	7/31/2020
4-Methyl-2-pentanone	ND	0.017	0.00025		mg/Kg-dry	1	7/31/2020
Methylene chloride	ND	0.0084	0.00067		mg/Kg-dry	1	7/31/2020
Methyl tert-butyl ether	ND	0.0042	0.00017		mg/Kg-dry	1	7/31/2020
Styrene	ND	0.0042	0.00017		mg/Kg-dry	1	7/31/2020
1,1,2,2-Tetrachloroethane	ND	0.0042	0.00017		mg/Kg-dry	1	7/31/2020
Tetrachloroethene	ND	0.0042	0.00025		mg/Kg-dry	1	7/31/2020
Toluene	ND	0.0042	0.00017		mg/Kg-dry	1	7/31/2020
1,1,1-Trichloroethane	ND	0.0042	0.00017		mg/Kg-dry	1	7/31/2020
1,1,2-Trichloroethane	ND	0.0042	0.00042		mg/Kg-dry	1	7/31/2020
Trichloroethene	ND	0.0042	0.00017		mg/Kg-dry	1	7/31/2020
Vinyl chloride	ND	0.0042	0.00034		mg/Kg-dry	1	7/31/2020
Xylenes, Total	ND	0.013	0.00034		mg/Kg-dry	1	7/31/2020
<b>Percent Moisture</b>		<b>D2974</b>		<b>Prep Date: 7/30/2020</b>		<b>Analyst: RW</b>	
Percent Moisture	9.0	0.2	0.1	*	wt%	1	7/31/2020

**Qualifiers:** ND - Not Detected at the LOD  
 J - Analyte detected below LOQ  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Date Reported: August 04, 2020

**ANALYTICAL RESULTS**

Date Printed: August 04, 2020

CLIENT: Hydrodynamics Consultants, Inc.

Work Order: 20071084 Revision 0

Project: Westwood Cleaners, 8731 West North Ave., Wauwato

Lab ID: 20071084-004

Client Sample ID: NSB14-A

Collection Date: 7/28/2020 1:46:00 PM

Matrix: SOIL

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: <b>7/30/2020</b>		Analyst: <b>CBG</b>	
Acetone	ND	0.079	0.0024		mg/Kg-dry	1	7/31/2020
Benzene	ND	0.0052	0.00021		mg/Kg-dry	1	7/31/2020
Bromodichloromethane	ND	0.0052	0.00042		mg/Kg-dry	1	7/31/2020
Bromoform	ND	0.0052	0.00042		mg/Kg-dry	1	7/31/2020
Bromomethane	ND	0.010	0.00052		mg/Kg-dry	1	7/31/2020
2-Butanone	ND	0.079	0.0016		mg/Kg-dry	1	7/31/2020
Carbon disulfide	ND	0.052	0.00021		mg/Kg-dry	1	7/31/2020
Carbon tetrachloride	ND	0.0052	0.00031		mg/Kg-dry	1	7/31/2020
Chlorobenzene	ND	0.0052	0.00021		mg/Kg-dry	1	7/31/2020
Chloroethane	ND	0.010	0.00042		mg/Kg-dry	1	7/31/2020
Chloroform	ND	0.0052	0.00021		mg/Kg-dry	1	7/31/2020
Chloromethane	ND	0.010	0.00031		mg/Kg-dry	1	7/31/2020
Dibromochloromethane	ND	0.0052	0.00042		mg/Kg-dry	1	7/31/2020
1,1-Dichloroethane	ND	0.0052	0.00031		mg/Kg-dry	1	7/31/2020
1,2-Dichloroethane	ND	0.0052	0.00063		mg/Kg-dry	1	7/31/2020
1,1-Dichloroethene	ND	0.0052	0.00031		mg/Kg-dry	1	7/31/2020
cis-1,2-Dichloroethene	ND	0.0052	0.00031		mg/Kg-dry	1	7/31/2020
trans-1,2-Dichloroethene	ND	0.0052	0.00031		mg/Kg-dry	1	7/31/2020
1,2-Dichloropropane	ND	0.0052	0.00042		mg/Kg-dry	1	7/31/2020
cis-1,3-Dichloropropene	ND	0.0021	0.00021		mg/Kg-dry	1	7/31/2020
trans-1,3-Dichloropropene	ND	0.0021	0.00031		mg/Kg-dry	1	7/31/2020
Ethylbenzene	ND	0.0052	0.0001		mg/Kg-dry	1	7/31/2020
2-Hexanone	ND	0.021	0.00084		mg/Kg-dry	1	7/31/2020
4-Methyl-2-pentanone	ND	0.021	0.00031		mg/Kg-dry	1	7/31/2020
Methylene chloride	ND	0.010	0.00084		mg/Kg-dry	1	7/31/2020
Methyl tert-butyl ether	ND	0.0052	0.00021		mg/Kg-dry	1	7/31/2020
Styrene	ND	0.0052	0.00021		mg/Kg-dry	1	7/31/2020
1,1,2,2-Tetrachloroethane	ND	0.0052	0.00021		mg/Kg-dry	1	7/31/2020
Tetrachloroethene	ND	0.0052	0.00031		mg/Kg-dry	1	7/31/2020
Toluene	ND	0.0052	0.00021		mg/Kg-dry	1	7/31/2020
1,1,1-Trichloroethane	ND	0.0052	0.00021		mg/Kg-dry	1	7/31/2020
1,1,2-Trichloroethane	ND	0.0052	0.00052		mg/Kg-dry	1	7/31/2020
Trichloroethene	ND	0.0052	0.00021		mg/Kg-dry	1	7/31/2020
Vinyl chloride	ND	0.0052	0.00042		mg/Kg-dry	1	7/31/2020
Xylenes, Total	ND	0.016	0.00042		mg/Kg-dry	1	7/31/2020
<b>Percent Moisture</b>		<b>D2974</b>		Prep Date: <b>7/30/2020</b>		Analyst: <b>RW</b>	
Percent Moisture	15.0	0.2	0.1	*	wt%	1	7/31/2020

**Qualifiers:**

ND - Not Detected at the LOD

J - Analyte detected below LOQ

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: August 04, 2020

**ANALYTICAL RESULTS**

Date Printed: August 04, 2020

**CLIENT:** Hydrodynamics Consultants, Inc.  
**Work Order:** 20071084 Revision 0  
**Project:** Westwood Cleaners, 8731 West North Ave., Wauwato  
**Lab ID:** 20071084-005

**Client Sample ID:** NSB14-B  
**Collection Date:** 7/28/2020 2:10:00 PM  
**Matrix:** SOIL

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS****SW5035/8260B**

Prep Date: 7/30/2020

Analyst: CBG

Acetone	ND	0.070	0.0021		mg/Kg-dry	1	7/31/2020
Benzene	ND	0.0046	0.00019		mg/Kg-dry	1	7/31/2020
Bromodichloromethane	ND	0.0046	0.00037		mg/Kg-dry	1	7/31/2020
Bromoform	ND	0.0046	0.00037		mg/Kg-dry	1	7/31/2020
Bromomethane	ND	0.0093	0.00046		mg/Kg-dry	1	7/31/2020
2-Butanone	ND	0.070	0.0014		mg/Kg-dry	1	7/31/2020
Carbon disulfide	ND	0.046	0.00019		mg/Kg-dry	1	7/31/2020
Carbon tetrachloride	ND	0.0046	0.00028		mg/Kg-dry	1	7/31/2020
Chlorobenzene	ND	0.0046	0.00019		mg/Kg-dry	1	7/31/2020
Chloroethane	ND	0.0093	0.00037		mg/Kg-dry	1	7/31/2020
Chloroform	ND	0.0046	0.00019		mg/Kg-dry	1	7/31/2020
Chloromethane	ND	0.0093	0.00028		mg/Kg-dry	1	7/31/2020
Dibromochloromethane	ND	0.0046	0.00037		mg/Kg-dry	1	7/31/2020
1,1-Dichloroethane	ND	0.0046	0.00028		mg/Kg-dry	1	7/31/2020
1,2-Dichloroethane	ND	0.0046	0.00056		mg/Kg-dry	1	7/31/2020
1,1-Dichloroethene	ND	0.0046	0.00028		mg/Kg-dry	1	7/31/2020
cis-1,2-Dichloroethene	ND	0.0046	0.00028		mg/Kg-dry	1	7/31/2020
trans-1,2-Dichloroethene	ND	0.0046	0.00028		mg/Kg-dry	1	7/31/2020
1,2-Dichloropropane	ND	0.0046	0.00037		mg/Kg-dry	1	7/31/2020
cis-1,3-Dichloropropene	ND	0.0019	0.00019		mg/Kg-dry	1	7/31/2020
trans-1,3-Dichloropropene	ND	0.0019	0.00028		mg/Kg-dry	1	7/31/2020
Ethylbenzene	ND	0.0046	0.000093		mg/Kg-dry	1	7/31/2020
2-Hexanone	ND	0.019	0.00074		mg/Kg-dry	1	7/31/2020
4-Methyl-2-pentanone	ND	0.019	0.00028		mg/Kg-dry	1	7/31/2020
Methylene chloride	ND	0.0093	0.00074		mg/Kg-dry	1	7/31/2020
Methyl tert-butyl ether	ND	0.0046	0.00019		mg/Kg-dry	1	7/31/2020
Styrene	ND	0.0046	0.00019		mg/Kg-dry	1	7/31/2020
1,1,2,2-Tetrachloroethane	ND	0.0046	0.00019		mg/Kg-dry	1	7/31/2020
Tetrachloroethene	ND	0.0046	0.00028		mg/Kg-dry	1	7/31/2020
Toluene	ND	0.0046	0.00019		mg/Kg-dry	1	7/31/2020
1,1,1-Trichloroethane	ND	0.0046	0.00019		mg/Kg-dry	1	7/31/2020
1,1,2-Trichloroethane	ND	0.0046	0.00046		mg/Kg-dry	1	7/31/2020
Trichloroethene	ND	0.0046	0.00019		mg/Kg-dry	1	7/31/2020
Vinyl chloride	ND	0.0046	0.00037		mg/Kg-dry	1	7/31/2020
Xylenes, Total	ND	0.014	0.00037		mg/Kg-dry	1	7/31/2020

**Percent Moisture****D2974**

Prep Date: 7/30/2020

Analyst: RW

Percent Moisture	19.1	0.2	0.1	*	wt%	1	7/31/2020
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**Qualifiers:**

ND - Not Detected at the LOD

J - Analyte detected below LOQ

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Date Reported: August 04, 2020

**ANALYTICAL RESULTS**

Date Printed: August 04, 2020

**CLIENT:** Hydrodynamics Consultants, Inc.  
**Work Order:** 20071084 Revision 0  
**Project:** Westwood Cleaners, 8731 West North Ave., Wauwato  
**Lab ID:** 20071084-006

**Client Sample ID:** NSB14-C  
**Collection Date:** 7/28/2020 2:31:00 PM  
**Matrix:** SOIL

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
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Volatile Organic Compounds by GC/MS	SW5035/8260B			Prep Date: 7/30/2020	Analyst: CBG
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Acetone	ND	0.072	0.0022		mg/Kg-dry	1	7/31/2020
Benzene	ND	0.0048	0.00019		mg/Kg-dry	1	7/31/2020
Bromodichloromethane	ND	0.0048	0.00038		mg/Kg-dry	1	7/31/2020
Bromoform	ND	0.0048	0.00038		mg/Kg-dry	1	7/31/2020
Bromomethane	ND	0.0096	0.00048		mg/Kg-dry	1	7/31/2020
2-Butanone	ND	0.072	0.0014		mg/Kg-dry	1	7/31/2020
Carbon disulfide	ND	0.048	0.00019		mg/Kg-dry	1	7/31/2020
Carbon tetrachloride	ND	0.0048	0.00029		mg/Kg-dry	1	7/31/2020
Chlorobenzene	ND	0.0048	0.00019		mg/Kg-dry	1	7/31/2020
Chloroethane	ND	0.0096	0.00038		mg/Kg-dry	1	7/31/2020
Chloroform	ND	0.0048	0.00019		mg/Kg-dry	1	7/31/2020
Chloromethane	ND	0.0096	0.00029		mg/Kg-dry	1	7/31/2020
Dibromochloromethane	ND	0.0048	0.00038		mg/Kg-dry	1	7/31/2020
1,1-Dichloroethane	ND	0.0048	0.00029		mg/Kg-dry	1	7/31/2020
1,2-Dichloroethane	ND	0.0048	0.00058		mg/Kg-dry	1	7/31/2020
1,1-Dichloroethene	ND	0.0048	0.00029		mg/Kg-dry	1	7/31/2020
cis-1,2-Dichloroethene	ND	0.0048	0.00029		mg/Kg-dry	1	7/31/2020
trans-1,2-Dichloroethene	ND	0.0048	0.00029		mg/Kg-dry	1	7/31/2020
1,2-Dichloropropane	ND	0.0048	0.00038		mg/Kg-dry	1	7/31/2020
cis-1,3-Dichloropropene	ND	0.0019	0.00019		mg/Kg-dry	1	7/31/2020
trans-1,3-Dichloropropene	ND	0.0019	0.00029		mg/Kg-dry	1	7/31/2020
Ethylbenzene	ND	0.0048	0.000096		mg/Kg-dry	1	7/31/2020
2-Hexanone	ND	0.019	0.00077		mg/Kg-dry	1	7/31/2020
4-Methyl-2-pentanone	ND	0.019	0.00029		mg/Kg-dry	1	7/31/2020
Methylene chloride	ND	0.0096	0.00077		mg/Kg-dry	1	7/31/2020
Methyl tert-butyl ether	ND	0.0048	0.00019		mg/Kg-dry	1	7/31/2020
Styrene	ND	0.0048	0.00019		mg/Kg-dry	1	7/31/2020
1,1,2,2-Tetrachloroethane	ND	0.0048	0.00019		mg/Kg-dry	1	7/31/2020
Tetrachloroethene	ND	0.0048	0.00029		mg/Kg-dry	1	7/31/2020
Toluene	ND	0.0048	0.00019		mg/Kg-dry	1	7/31/2020
1,1,1-Trichloroethane	ND	0.0048	0.00019		mg/Kg-dry	1	7/31/2020
1,1,2-Trichloroethane	ND	0.0048	0.00048		mg/Kg-dry	1	7/31/2020
Trichloroethene	ND	0.0048	0.00019		mg/Kg-dry	1	7/31/2020
Vinyl chloride	ND	0.0048	0.00038		mg/Kg-dry	1	7/31/2020
Xylenes, Total	ND	0.014	0.00038		mg/Kg-dry	1	7/31/2020

Percent Moisture	D2974			Prep Date: 7/30/2020	Analyst: RW		
Percent Moisture	18.4	0.2	0.1	*	wt%	1	7/31/2020

**Qualifiers:** ND - Not Detected at the LOD  
 J - Analyte detected below LOQ  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**STAT Analysis Corporation**

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: August 04, 2020

Date Printed: August 04, 2020

**ANALYTICAL RESULTS**

CLIENT: Hydrodynamics Consultants, Inc.

Work Order: 20071084 Revision 0

Project: Westwood Cleaners, 8731 West North Ave., Wauwato

Lab ID: 20071084-007

Client Sample ID: NSB15-A

Collection Date: 7/28/2020 3:03:00 PM

Matrix: SOIL

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: <b>7/30/2020</b>		Analyst: <b>CBG</b>	
Acetone	ND	0.064	0.002		mg/Kg-dry	1	7/31/2020
Benzene	ND	0.0043	0.00017		mg/Kg-dry	1	7/31/2020
Bromodichloromethane	ND	0.0043	0.00034		mg/Kg-dry	1	7/31/2020
Bromoform	ND	0.0043	0.00034		mg/Kg-dry	1	7/31/2020
Bromomethane	ND	0.0085	0.00043		mg/Kg-dry	1	7/31/2020
2-Butanone	ND	0.064	0.0013		mg/Kg-dry	1	7/31/2020
Carbon disulfide	ND	0.043	0.00017		mg/Kg-dry	1	7/31/2020
Carbon tetrachloride	ND	0.0043	0.00026		mg/Kg-dry	1	7/31/2020
Chlorobenzene	ND	0.0043	0.00017		mg/Kg-dry	1	7/31/2020
Chloroethane	ND	0.0085	0.00034		mg/Kg-dry	1	7/31/2020
Chloroform	ND	0.0043	0.00017		mg/Kg-dry	1	7/31/2020
Chloromethane	ND	0.0085	0.00026		mg/Kg-dry	1	7/31/2020
Dibromochloromethane	ND	0.0043	0.00034		mg/Kg-dry	1	7/31/2020
1,1-Dichloroethane	ND	0.0043	0.00026		mg/Kg-dry	1	7/31/2020
1,2-Dichloroethane	ND	0.0043	0.00051		mg/Kg-dry	1	7/31/2020
1,1-Dichloroethene	ND	0.0043	0.00026		mg/Kg-dry	1	7/31/2020
cis-1,2-Dichloroethene	ND	0.0043	0.00026		mg/Kg-dry	1	7/31/2020
trans-1,2-Dichloroethene	ND	0.0043	0.00026		mg/Kg-dry	1	7/31/2020
1,2-Dichloropropane	ND	0.0043	0.00034		mg/Kg-dry	1	7/31/2020
cis-1,3-Dichloropropene	ND	0.0017	0.00017		mg/Kg-dry	1	7/31/2020
trans-1,3-Dichloropropene	ND	0.0017	0.00026		mg/Kg-dry	1	7/31/2020
Ethylbenzene	ND	0.0043	0.000085		mg/Kg-dry	1	7/31/2020
2-Hexanone	ND	0.017	0.00068		mg/Kg-dry	1	7/31/2020
4-Methyl-2-pentanone	ND	0.017	0.00026		mg/Kg-dry	1	7/31/2020
Methylene chloride	ND	0.0085	0.00068		mg/Kg-dry	1	7/31/2020
Methyl tert-butyl ether	ND	0.0043	0.00017		mg/Kg-dry	1	7/31/2020
Styrene	ND	0.0043	0.00017		mg/Kg-dry	1	7/31/2020
1,1,2,2-Tetrachloroethane	ND	0.0043	0.00017		mg/Kg-dry	1	7/31/2020
Tetrachloroethene	ND	0.0043	0.00026		mg/Kg-dry	1	7/31/2020
Toluene	ND	0.0043	0.00017		mg/Kg-dry	1	7/31/2020
1,1,1-Trichloroethane	ND	0.0043	0.00017		mg/Kg-dry	1	7/31/2020
1,1,2-Trichloroethane	ND	0.0043	0.00043		mg/Kg-dry	1	7/31/2020
Trichloroethene	ND	0.0043	0.00017		mg/Kg-dry	1	7/31/2020
Vinyl chloride	ND	0.0043	0.00034		mg/Kg-dry	1	7/31/2020
Xylenes, Total	ND	0.013	0.00034		mg/Kg-dry	1	7/31/2020
<b>Percent Moisture</b>		<b>D2974</b>		Prep Date: <b>7/30/2020</b>		Analyst: <b>RW</b>	
Percent Moisture	14.8	0.2	0.1	*	wt%	1	7/31/2020

**Qualifiers:**

ND - Not Detected at the LOD

J - Analyte detected below LOQ

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: August 04, 2020

**ANALYTICAL RESULTS**

Date Printed: August 04, 2020

**CLIENT:** Hydrodynamics Consultants, Inc.  
**Work Order:** 20071084 Revision 0  
**Project:** Westwood Cleaners, 8731 West North Ave., Wauwato  
**Lab ID:** 20071084-008

**Client Sample ID:** NSB15-B  
**Collection Date:** 7/28/2020 3:21:00 PM  
**Matrix:** SOIL

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
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Volatile Organic Compounds by GC/MS	SW5035/8260B			Prep Date: 7/30/2020	Analyst: CBG
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Acetone	ND	0.084	0.0026		mg/Kg-dry	1	7/31/2020
Benzene	ND	0.0056	0.00022		mg/Kg-dry	1	7/31/2020
Bromodichloromethane	ND	0.0056	0.00045		mg/Kg-dry	1	7/31/2020
Bromoform	ND	0.0056	0.00045		mg/Kg-dry	1	7/31/2020
Bromomethane	ND	0.011	0.00056		mg/Kg-dry	1	7/31/2020
2-Butanone	ND	0.084	0.0017		mg/Kg-dry	1	7/31/2020
Carbon disulfide	ND	0.056	0.00022		mg/Kg-dry	1	7/31/2020
Carbon tetrachloride	ND	0.0056	0.00034		mg/Kg-dry	1	7/31/2020
Chlorobenzene	ND	0.0056	0.00022		mg/Kg-dry	1	7/31/2020
Chloroethane	ND	0.011	0.00045		mg/Kg-dry	1	7/31/2020
Chloroform	ND	0.0056	0.00022		mg/Kg-dry	1	7/31/2020
Chloromethane	ND	0.011	0.00034		mg/Kg-dry	1	7/31/2020
Dibromochloromethane	ND	0.0056	0.00045		mg/Kg-dry	1	7/31/2020
1,1-Dichloroethane	ND	0.0056	0.00034		mg/Kg-dry	1	7/31/2020
1,2-Dichloroethane	ND	0.0056	0.00067		mg/Kg-dry	1	7/31/2020
1,1-Dichloroethene	ND	0.0056	0.00034		mg/Kg-dry	1	7/31/2020
cis-1,2-Dichloroethene	ND	0.0056	0.00034		mg/Kg-dry	1	7/31/2020
trans-1,2-Dichloroethene	ND	0.0056	0.00034		mg/Kg-dry	1	7/31/2020
1,2-Dichloropropane	ND	0.0056	0.00045		mg/Kg-dry	1	7/31/2020
cis-1,3-Dichloropropene	ND	0.0022	0.00022		mg/Kg-dry	1	7/31/2020
trans-1,3-Dichloropropene	ND	0.0022	0.00034		mg/Kg-dry	1	7/31/2020
Ethylbenzene	ND	0.0056	0.00011		mg/Kg-dry	1	7/31/2020
2-Hexanone	ND	0.022	0.0009		mg/Kg-dry	1	7/31/2020
4-Methyl-2-pentanone	ND	0.022	0.00034		mg/Kg-dry	1	7/31/2020
Methylene chloride	ND	0.011	0.0009		mg/Kg-dry	1	7/31/2020
Methyl tert-butyl ether	ND	0.0056	0.00022		mg/Kg-dry	1	7/31/2020
Styrene	ND	0.0056	0.00022		mg/Kg-dry	1	7/31/2020
1,1,2,2-Tetrachloroethane	ND	0.0056	0.00022		mg/Kg-dry	1	7/31/2020
Tetrachloroethene	ND	0.0056	0.00034		mg/Kg-dry	1	7/31/2020
Toluene	ND	0.0056	0.00022		mg/Kg-dry	1	7/31/2020
1,1,1-Trichloroethane	ND	0.0056	0.00022		mg/Kg-dry	1	7/31/2020
1,1,2-Trichloroethane	ND	0.0056	0.00056		mg/Kg-dry	1	7/31/2020
Trichloroethene	ND	0.0056	0.00022		mg/Kg-dry	1	7/31/2020
Vinyl chloride	ND	0.0056	0.00045		mg/Kg-dry	1	7/31/2020
Xylenes, Total	ND	0.017	0.00045		mg/Kg-dry	1	7/31/2020

Percent Moisture	D2974			Prep Date: 7/30/2020	Analyst: RW
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Percent Moisture	18.1	0.2	0.1	*	wt%	1	7/31/2020
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**Qualifiers:**

ND - Not Detected at the LOD

J - Analyte detected below LOQ

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded



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Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: August 04, 2020

**ANALYTICAL RESULTS**

Date Printed: August 04, 2020

CLIENT: Hydrodynamics Consultants, Inc.

Work Order: 20071084 Revision 0

Project: Westwood Cleaners, 8731 West North Ave., Wauwato

Lab ID: 20071084-009

Client Sample ID: NSB15-C

Collection Date: 7/28/2020 3:40:00 PM

Matrix: SOIL

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: <b>7/30/2020</b>		Analyst: <b>JDT</b>	
Acetone	ND	0.062	0.0019		mg/Kg-dry	1	7/31/2020
Benzene	ND	0.0041	0.00016		mg/Kg-dry	1	7/31/2020
Bromodichloromethane	ND	0.0041	0.00033		mg/Kg-dry	1	7/31/2020
Bromoform	ND	0.0041	0.00033		mg/Kg-dry	1	7/31/2020
Bromomethane	ND	0.0082	0.00041		mg/Kg-dry	1	7/31/2020
2-Butanone	ND	0.062	0.0012		mg/Kg-dry	1	7/31/2020
Carbon disulfide	ND	0.041	0.00016		mg/Kg-dry	1	7/31/2020
Carbon tetrachloride	ND	0.0041	0.00025		mg/Kg-dry	1	7/31/2020
Chlorobenzene	ND	0.0041	0.00016		mg/Kg-dry	1	7/31/2020
Chloroethane	ND	0.0082	0.00033		mg/Kg-dry	1	7/31/2020
Chloroform	ND	0.0041	0.00016		mg/Kg-dry	1	7/31/2020
Chloromethane	ND	0.0082	0.00025		mg/Kg-dry	1	7/31/2020
Dibromochloromethane	ND	0.0041	0.00033		mg/Kg-dry	1	7/31/2020
1,1-Dichloroethane	ND	0.0041	0.00025		mg/Kg-dry	1	7/31/2020
1,2-Dichloroethane	ND	0.0041	0.00049		mg/Kg-dry	1	7/31/2020
1,1-Dichloroethene	ND	0.0041	0.00025		mg/Kg-dry	1	7/31/2020
cis-1,2-Dichloroethene	ND	0.0041	0.00025		mg/Kg-dry	1	7/31/2020
trans-1,2-Dichloroethene	ND	0.0041	0.00025		mg/Kg-dry	1	7/31/2020
1,2-Dichloropropane	ND	0.0041	0.00033		mg/Kg-dry	1	7/31/2020
cis-1,3-Dichloropropene	ND	0.0016	0.00016		mg/Kg-dry	1	7/31/2020
trans-1,3-Dichloropropene	ND	0.0016	0.00025		mg/Kg-dry	1	7/31/2020
Ethylbenzene	ND	0.0041	0.000082		mg/Kg-dry	1	7/31/2020
2-Hexanone	ND	0.016	0.00066		mg/Kg-dry	1	7/31/2020
4-Methyl-2-pentanone	ND	0.016	0.00025		mg/Kg-dry	1	7/31/2020
Methylene chloride	ND	0.0082	0.00066		mg/Kg-dry	1	7/31/2020
Methyl tert-butyl ether	ND	0.0041	0.00016		mg/Kg-dry	1	7/31/2020
Styrene	ND	0.0041	0.00016		mg/Kg-dry	1	7/31/2020
1,1,2,2-Tetrachloroethane	ND	0.0041	0.00016		mg/Kg-dry	1	7/31/2020
Tetrachloroethene	ND	0.0041	0.00025		mg/Kg-dry	1	7/31/2020
Toluene	ND	0.0041	0.00016		mg/Kg-dry	1	7/31/2020
1,1,1-Trichloroethane	ND	0.0041	0.00016		mg/Kg-dry	1	7/31/2020
1,1,2-Trichloroethane	ND	0.0041	0.00041		mg/Kg-dry	1	7/31/2020
Trichloroethene	ND	0.0041	0.00016		mg/Kg-dry	1	7/31/2020
Vinyl chloride	ND	0.0041	0.00033		mg/Kg-dry	1	7/31/2020
Xylenes, Total	ND	0.012	0.00033		mg/Kg-dry	1	7/31/2020
<b>Percent Moisture</b>		<b>D2974</b>		Prep Date: <b>7/30/2020</b>		Analyst: <b>RW</b>	
Percent Moisture	8.4	0.2	0.1	*	wt%	1	7/31/2020

**Qualifiers:** ND - Not Detected at the LOD  
 J - Analyte detected below LOQ  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

# STAT Analysis Corporation

2201 West Campbell Park Drive, Chicago, Illinois 60612-3547 Phone: (312) 733-0551 Fax: (312) 733-2386  
 e-mail address: [STATinfo@STATAnalysis.com](mailto:STATinfo@STATAnalysis.com) A I H A accredited 10248, N V L A P accredited 101202-0

## CHAIN OF CUSTODY RECORD

Company: Hydrodynamics Consultant, Inc. Client Tracking No.:  
 Project Number: Westwood Cleaners  
 Location/Address: 8731 West North Ave., Wauwatosa, WI 53226  
 Sampler(s): Yinong Han  
 Report To: Yong Yu Phone: (630) 724-0098  
 QC Level: 1 2 3 4 Fax: (800) 881-2051  
 Regulatory Program: NPEDS/MWRD RCRA SDWA SRP TACO Other:

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	VOCS	X	Remarks	Lab No.:	Results Needed:	
												am	pm
NSB13-A	7/28/20	11:50	S		Yes	Yes	4		X		001		
NSB13-B	7/28/20	12:26	S		Yes	Yes	4		X		002		
NSB13-C	7/28/20	12:59	S		Yes	Yes	4		X		003		
NSB14-A	7/28/20	13:46	S		Yes	Yes	4		X		004		
NSB14-B	7/28/20	14:10	S		Yes	Yes	4		X		005		
NSB14-C	7/28/20	14:31	S		Yes	Yes	4		X		006		
NSB15-A	7/28/20	15:03	S		Yes	Yes	4		X		007		
NSB15-B	7/28/20	15:21	S		Yes	Yes	4		X		008		
NSB15-C	7/28/20	15:40	S		Yes	Yes	4		X		009		

Turn Around:  
 P.O. No.:  
 Quote No.:  
 Laboratory Use:  
 - Container OK  
 - Samples Leaking  
 - Refrigerated (Temp: 3-4°C)  
 - Sample Labels Match Sample ID  
 Sample Verification:  
 Yes No  
 Yes No  
 Yes No  
 Yes No  
 Work Order No.: 20071084  
 Preservation Code:  
 A = None B = HNO C = NaOH  
 D = H<sub>2</sub>SO<sub>4</sub> E = HCl F = 5035/EnCore

**Sample Receipt Checklist**

Client Name HYDRODYNAMICS

Date and Time Received: 7/29/2020 3:00:00 PM

Work Order Number 20071084

Received by: EAA

Checklist completed by: EL 7/29/20  
Signature Date

Reviewed by: AA 7/30/2020  
Initials Date

Matrix: Carrier name STAT Analysis

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels/containers? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Container or Temp Blank temperature in compliance? Yes  No  Temperature 3.4 °C
- Water - VOA vials have zero headspace? No VOA vials submitted Yes  No
- Water - Samples pH checked? Yes  No  Checked by: \_\_\_\_\_
- Water - Samples properly preserved? Yes  No  pH Adjusted? \_\_\_\_\_

Any No response must be detailed in the comments section below.

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Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Client / Person contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Response: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**STAT** Analysis Corporation

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

August 17, 2020

Hydrodynamics Consultants, Inc.  
5403 Patton Drive  
Lisle, IL 60532

Telephone: (630) 724-0098  
Fax: (800) 881-2051

Analytical Report for STAT Work Order: 20080363 Revision 0

RE: Westwood Cleaners, 8731 West North Ave., Wauwatosa, WI 53226

Dear Hydrodynamics Consultants, Inc.:

STAT Analysis received 4 samples for the referenced project on 8/11/2020 4:00:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements specified in WI DNR Chapter NR 149 (Certification Number 399099910). Analyses were performed in accordance with methods as referenced on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. A listing of accredited methods/parameters can also be provided.

For sample results requiring adjustment for dilutions, the detection and reporting limits are adjusted for the corresponding dilution factor. Analytical results expressed on a dry weight basis have units of mg/Kg-dry or µg/Kg-dry on the analytical report. Corresponding reporting limits are adjusted for dry weight.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Sebastian Slazyk  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples as received and tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

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**Client:** Hydrodynamics Consultants, Inc.

**Project:** Westwood Cleaners, 8731 West North Ave., Wauwatos

**Work Order Sample Summary**

**Work Order:** 20080363 Revision 0

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<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
20080363-001A	MW 7-1/4		8/10/2020 12:55:00 PM	8/11/2020
20080363-002A	MW 7-1/4D		8/10/2020 1:03:00 PM	8/11/2020
20080363-003A	MW 8-1/4		8/10/2020 1:11:00 PM	8/11/2020
20080363-004A	MW 9-1/4		8/10/2020 1:20:00 PM	8/11/2020

**STAT Analysis Corporation**

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Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: August 17, 2020

**ANALYTICAL RESULTS**

Date Printed: August 17, 2020

**CLIENT:** Hydrodynamics Consultants, Inc.  
**Work Order:** 20080363 Revision 0  
**Project:** Westwood Cleaners, 8731 West North Ave., Wauwato  
**Lab ID:** 20080363-001

**Client Sample ID:** MW 7-1/4  
**Collection Date:** 8/10/2020 12:55:00 PM  
**Matrix:** AQUEOUS

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW8260B (SW5030B)</b>		Prep Date:		Analyst: <b>JD</b>	
Acetone	ND	0.020	0.0031		mg/L	1	8/11/2020
Benzene	ND	0.0050	0.0002		mg/L	1	8/11/2020
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	8/11/2020
Bromoform	ND	0.0010	0.0003		mg/L	1	8/11/2020
Bromomethane	ND	0.0050	0.002		mg/L	1	8/11/2020
2-Butanone	ND	0.020	0.0016		mg/L	1	8/11/2020
Carbon disulfide	ND	0.010	0.0003		mg/L	1	8/11/2020
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	8/11/2020
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	8/11/2020
Chloroethane	ND	0.010	0.0005		mg/L	1	8/11/2020
Chloroform	ND	0.0010	0.0001		mg/L	1	8/11/2020
Chloromethane	ND	0.010	0.0003		mg/L	1	8/11/2020
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	8/11/2020
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	8/11/2020
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	8/11/2020
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	8/11/2020
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	8/11/2020
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	8/11/2020
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	8/11/2020
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	8/11/2020
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	8/11/2020
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	8/11/2020
2-Hexanone	ND	0.020	0.0002		mg/L	1	8/11/2020
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	8/11/2020
Methylene chloride	ND	0.0050	0.0002		mg/L	1	8/11/2020
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	8/11/2020
Styrene	ND	0.0050	0.0003		mg/L	1	8/11/2020
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	8/11/2020
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	8/11/2020
Toluene	ND	0.0050	0.0004		mg/L	1	8/11/2020
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	8/11/2020
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	8/11/2020
Trichloroethene	ND	0.0050	0.0003		mg/L	1	8/11/2020
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	8/11/2020
Xylenes, Total	ND	0.015	0.001		mg/L	1	8/11/2020

**Qualifiers:**

ND - Not Detected at the LOD

J - Analyte detected below LOQ

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: August 17, 2020

**ANALYTICAL RESULTS**

Date Printed: August 17, 2020

CLIENT: Hydrodynamics Consultants, Inc.

Client Sample ID: MW 7-1/4D

Work Order: 20080363 Revision 0

Collection Date: 8/10/2020 1:03:00 PM

Project: Westwood Cleaners, 8731 West North Ave., Wauwato

Matrix: AQUEOUS

Lab ID: 20080363-002

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>							
		<b>SW8260B (SW5030B)</b>					
				Prep Date:			Analyst: JDT
Acetone	ND	0.020	0.0031		mg/L	1	8/11/2020
Benzene	ND	0.0050	0.0002		mg/L	1	8/11/2020
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	8/11/2020
Bromoform	ND	0.0010	0.0003		mg/L	1	8/11/2020
Bromomethane	ND	0.0050	0.002		mg/L	1	8/11/2020
2-Butanone	ND	0.020	0.0016		mg/L	1	8/11/2020
Carbon disulfide	ND	0.010	0.0003		mg/L	1	8/11/2020
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	8/11/2020
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	8/11/2020
Chloroethane	ND	0.010	0.0005		mg/L	1	8/11/2020
Chloroform	ND	0.0010	0.0001		mg/L	1	8/11/2020
Chloromethane	ND	0.010	0.0003		mg/L	1	8/11/2020
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	8/11/2020
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	8/11/2020
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	8/11/2020
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	8/11/2020
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	8/11/2020
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	8/11/2020
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	8/11/2020
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	8/11/2020
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	8/11/2020
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	8/11/2020
2-Hexanone	ND	0.020	0.0002		mg/L	1	8/11/2020
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	8/11/2020
Methylene chloride	ND	0.0050	0.0002		mg/L	1	8/11/2020
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	8/11/2020
Styrene	ND	0.0050	0.0003		mg/L	1	8/11/2020
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	8/11/2020
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	8/11/2020
Toluene	ND	0.0050	0.0004		mg/L	1	8/11/2020
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	8/11/2020
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	8/11/2020
Trichloroethene	ND	0.0050	0.0003		mg/L	1	8/11/2020
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	8/11/2020
Xylenes, Total	ND	0.015	0.001		mg/L	1	8/11/2020

**Qualifiers:**

ND - Not Detected at the LOD

J - Analyte detected below LOQ

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

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Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: August 17, 2020

**ANALYTICAL RESULTS**

Date Printed: August 17, 2020

CLIENT: Hydrodynamics Consultants, Inc.

Client Sample ID: MW 8-1/4

Work Order: 20080363 Revision 0

Collection Date: 8/10/2020 1:11:00 PM

Project: Westwood Cleaners, 8731 West North Ave., Wauwato

Matrix: AQUEOUS

Lab ID: 20080363-003

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS****SW8260B (SW5030B)**

Prep Date:

Analyst: JDT

Acetone	ND	0.020	0.0031		mg/L	1	8/11/2020
Benzene	ND	0.0050	0.0002		mg/L	1	8/11/2020
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	8/11/2020
Bromoform	ND	0.0010	0.0003		mg/L	1	8/11/2020
Bromomethane	ND	0.0050	0.002		mg/L	1	8/11/2020
2-Butanone	ND	0.020	0.0016		mg/L	1	8/11/2020
Carbon disulfide	ND	0.010	0.0003		mg/L	1	8/11/2020
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	8/11/2020
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	8/11/2020
Chloroethane	ND	0.010	0.0005		mg/L	1	8/11/2020
Chloroform	ND	0.0010	0.0001		mg/L	1	8/11/2020
Chloromethane	ND	0.010	0.0003		mg/L	1	8/11/2020
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	8/11/2020
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	8/11/2020
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	8/11/2020
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	8/11/2020
cis-1,2-Dichloroethene	0.023	0.0050	0.0002		mg/L	1	8/11/2020
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	8/11/2020
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	8/11/2020
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	8/11/2020
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	8/11/2020
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	8/11/2020
2-Hexanone	ND	0.020	0.0002		mg/L	1	8/11/2020
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	8/11/2020
Methylene chloride	ND	0.0050	0.0002		mg/L	1	8/11/2020
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	8/11/2020
Styrene	ND	0.0050	0.0003		mg/L	1	8/11/2020
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	8/11/2020
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	8/11/2020
Toluene	ND	0.0050	0.0004		mg/L	1	8/11/2020
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	8/11/2020
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	8/11/2020
Trichloroethene	0.010	0.0050	0.0003		mg/L	1	8/11/2020
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	8/11/2020
Xylenes, Total	ND	0.015	0.001		mg/L	1	8/11/2020

ND - Not Detected at the LOD

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

**Qualifiers:**

J - Analyte detected below LOQ

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded



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Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: August 17, 2020

**ANALYTICAL RESULTS**

Date Printed: August 17, 2020

CLIENT: Hydrodynamics Consultants, Inc.

Client Sample ID: MW 9-1/4

Work Order: 20080363 Revision 0

Collection Date: 8/10/2020 1:20:00 PM

Project: Westwood Cleaners, 8731 West North Ave., Wauwato

Matrix: AQUEOUS

Lab ID: 20080363-004

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS****SW8260B (SW5030B)**

Prep Date:

Analyst: JDT

Acetone	ND	0.020	0.0031		mg/L	1	8/11/2020
Benzene	ND	0.0050	0.0002		mg/L	1	8/11/2020
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	8/11/2020
Bromoform	ND	0.0010	0.0003		mg/L	1	8/11/2020
Bromomethane	ND	0.0050	0.002		mg/L	1	8/11/2020
2-Butanone	ND	0.020	0.0016		mg/L	1	8/11/2020
Carbon disulfide	ND	0.010	0.0003		mg/L	1	8/11/2020
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	8/11/2020
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	8/11/2020
Chloroethane	ND	0.010	0.0005		mg/L	1	8/11/2020
Chloroform	ND	0.0010	0.0001		mg/L	1	8/11/2020
Chloromethane	ND	0.010	0.0003		mg/L	1	8/11/2020
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	8/11/2020
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	8/11/2020
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	8/11/2020
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	8/11/2020
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	8/11/2020
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	8/11/2020
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	8/11/2020
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	8/11/2020
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	8/11/2020
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	8/11/2020
2-Hexanone	ND	0.020	0.0002		mg/L	1	8/11/2020
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	8/11/2020
Methylene chloride	ND	0.0050	0.0002		mg/L	1	8/11/2020
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	8/11/2020
Styrene	ND	0.0050	0.0003		mg/L	1	8/11/2020
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	8/11/2020
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	8/11/2020
Toluene	ND	0.0050	0.0004		mg/L	1	8/11/2020
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	8/11/2020
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	8/11/2020
Trichloroethene	ND	0.0050	0.0003		mg/L	1	8/11/2020
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	8/11/2020
Xylenes, Total	ND	0.015	0.001		mg/L	1	8/11/2020

ND - Not Detected at the LOD

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

**Qualifiers:**

J - Analyte detected below LOQ

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded





**STAT** Analysis Corporation

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

December 22, 2020

Hydrodynamics Consultants, Inc.  
5403 Patton Drive  
Lisle, IL 60532

Telephone: (630) 724-0098  
Fax: (800) 881-2051

Analytical Report for STAT Work Order: 20120306 Revision 0

RE: Westwood Cleaners, 8731 West North Ave., Wauwatosa, WI 53226

Dear Hydrodynamics Consultants, Inc.:

STAT Analysis received 11 samples for the referenced project on 12/9/2020 3:25:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements specified in WI DNR Chapter NR 149 (Certification Number 399099910). Analyses were performed in accordance with methods as referenced on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. A listing of accredited methods/parameters can also be provided.

For sample results requiring adjustment for dilutions, the detection and reporting limits are adjusted for the corresponding dilution factor. Analytical results expressed on a dry weight basis have units of mg/Kg-dry or µg/Kg-dry on the analytical report. Corresponding reporting limits are adjusted for dry weight.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Justice Kwateng  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples as received and tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

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**Client:** Hydrodynamics Consultants, Inc.**Project:** Westwood Cleaners, 8731 West North Ave., Wauwatos**Work Order Sample Summary****Work Order:** 20120306 Revision 0

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Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
20120306-001A	MW 1-2/4		12/8/2020 11:50:00 AM	12/9/2020
20120306-002A	MW 2-2/4		12/8/2020 11:57:00 AM	12/9/2020
20120306-003A	MW 3-2/4		12/8/2020 12:05:00 PM	12/9/2020
20120306-004A	MW 4-2/4		12/8/2020 12:12:00 PM	12/9/2020
20120306-005A	MW 5-2/4		12/8/2020 12:19:00 PM	12/9/2020
20120306-006A	MW 5-2/4D		12/8/2020 12:23:00 PM	12/9/2020
20120306-007A	MW 6-2/4		12/8/2020 12:30:00 PM	12/9/2020
20120306-008A	MW 7-2/4		12/8/2020 12:38:00 PM	12/9/2020
20120306-009A	MW 8-2/4		12/8/2020 12:45:00 PM	12/9/2020
20120306-010A	MW 9-2/4		12/8/2020 12:52:00 PM	12/9/2020
20120306-011A	MW TB-2/4		12/8/2020 8:45:00 AM	12/9/2020

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**CLIENT:** Hydrodynamics Consultants, Inc.  
**Project:** Westwood Cleaners, 8731 West North Ave., Wauwatosa, WI  
**Work Order:** 20120306 Revision 0

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**CASE NARRATIVE**

The following samples had recovery of VOC surrogate 4-Bromofluorobenzene outside of control limits:

MW-2-2/4 (20120306-002): 119% recovery (QC Limits: 79-114%)  
MW-4-2/4 (20120306-004): 117% recovery (QC Limits: 79-114%)  
MW-5-2/4 (20120306-005): 117% recovery (QC Limits: 79-114%)  
MW-6-2/4 (20120306-007): 115% recovery (QC Limits: 79-114%)  
MW-7-2/4 (20120306-008): 116% recovery (QC Limits: 79-114%)  
MW-8-2/4 (20120306-009): 116% recovery (QC Limits: 79-114%)  
MW-9-2/4 (20120306-010): 121% recovery (QC Limits: 79-114%)  
MW-TB-2/4 (20120306-011): 120% recovery (QC Limits: 79-114%)

Recovery of all other surrogates were within control limits.

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Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 22, 2020

**ANALYTICAL RESULTS**

Date Printed: December 22, 2020

CLIENT: Hydrodynamics Consultants, Inc.

Client Sample ID: MW 1-2/4

Work Order: 20120306 Revision 0

Collection Date: 12/8/2020 11:50:00 AM

Project: Westwood Cleaners, 8731 West North Ave., Wauwato

Matrix: WATER

Lab ID: 20120306-001

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS**

SW8260B (SW5030B)

Prep Date:

Analyst: CBG

Acetone	ND	0.020	0.0031		mg/L	1	12/18/2020
Benzene	ND	0.0050	0.0002		mg/L	1	12/18/2020
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
Bromoform	ND	0.0010	0.0003		mg/L	1	12/18/2020
Bromomethane	ND	0.0050	0.002		mg/L	1	12/18/2020
2-Butanone	ND	0.020	0.0016		mg/L	1	12/18/2020
Carbon disulfide	ND	0.010	0.0003		mg/L	1	12/18/2020
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	12/18/2020
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	12/18/2020
Chloroethane	ND	0.010	0.0005		mg/L	1	12/18/2020
Chloroform	ND	0.0010	0.0001		mg/L	1	12/18/2020
Chloromethane	ND	0.010	0.0003		mg/L	1	12/18/2020
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	12/18/2020
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	12/18/2020
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	12/18/2020
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	12/18/2020
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	12/18/2020
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	12/18/2020
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	12/18/2020
2-Hexanone	ND	0.020	0.0002		mg/L	1	12/18/2020
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	12/18/2020
Methylene chloride	ND	0.0050	0.0002		mg/L	1	12/18/2020
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	12/18/2020
Styrene	ND	0.0050	0.0003		mg/L	1	12/18/2020
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	12/18/2020
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	12/18/2020
Toluene	ND	0.0050	0.0004		mg/L	1	12/18/2020
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	12/18/2020
Trichloroethene	0.0013	0.0050	0.0003	JB	mg/L	1	12/18/2020
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	12/18/2020
Xylenes, Total	ND	0.015	0.001		mg/L	1	12/18/2020

ND - Not Detected at the LOD

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

**Qualifiers:**

J - Analyte detected below LOQ

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 22, 2020

**ANALYTICAL RESULTS**

Date Printed: December 22, 2020

CLIENT: Hydrodynamics Consultants, Inc.

Client Sample ID: MW 2-2/4

Work Order: 20120306 Revision 0

Collection Date: 12/8/2020 11:57:00 AM

Project: Westwood Cleaners, 8731 West North Ave., Wauwato

Matrix: WATER

Lab ID: 20120306-002

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS**

SW8260B (SW5030B)

Prep Date:

Analyst: CBG

Acetone	ND	0.020	0.0031		mg/L	1	12/18/2020
Benzene	ND	0.0050	0.0002		mg/L	1	12/18/2020
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
Bromoform	ND	0.0010	0.0003		mg/L	1	12/18/2020
Bromomethane	ND	0.0050	0.002		mg/L	1	12/18/2020
2-Butanone	ND	0.020	0.0016		mg/L	1	12/18/2020
Carbon disulfide	ND	0.010	0.0003		mg/L	1	12/18/2020
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	12/18/2020
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	12/18/2020
Chloroethane	ND	0.010	0.0005		mg/L	1	12/18/2020
Chloroform	ND	0.0010	0.0001		mg/L	1	12/18/2020
Chloromethane	ND	0.010	0.0003		mg/L	1	12/18/2020
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	12/18/2020
cis-1,2-Dichloroethene	0.0065	0.0050	0.0002		mg/L	1	12/18/2020
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	12/18/2020
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	12/18/2020
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	12/18/2020
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	12/18/2020
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	12/18/2020
2-Hexanone	ND	0.020	0.0002		mg/L	1	12/18/2020
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	12/18/2020
Methylene chloride	ND	0.0050	0.0002		mg/L	1	12/18/2020
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	12/18/2020
Styrene	ND	0.0050	0.0003		mg/L	1	12/18/2020
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	12/18/2020
Tetrachloroethene	0.091	0.0050	0.0003		mg/L	1	12/18/2020
Toluene	ND	0.0050	0.0004		mg/L	1	12/18/2020
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	12/18/2020
Trichloroethene	0.033	0.0050	0.0003		mg/L	1	12/18/2020
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	12/18/2020
Xylenes, Total	ND	0.015	0.001		mg/L	1	12/18/2020

**Qualifiers:**

ND - Not Detected at the LOD

J - Analyte detected below LOQ

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded



**STAT Analysis Corporation**

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Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 22, 2020

**ANALYTICAL RESULTS**

Date Printed: December 22, 2020

CLIENT: Hydrodynamics Consultants, Inc.

Client Sample ID: MW 3-2/4

Work Order: 20120306 Revision 0

Collection Date: 12/8/2020 12:05:00 PM

Project: Westwood Cleaners, 8731 West North Ave., Wauwato

Matrix: WATER

Lab ID: 20120306-003

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS**

SW8260B (SW5030B)

Prep Date:

Analyst: CBG

Acetone	ND	0.020	0.0031		mg/L	1	12/18/2020
Benzene	ND	0.0050	0.0002		mg/L	1	12/18/2020
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
Bromoform	ND	0.0010	0.0003		mg/L	1	12/18/2020
Bromomethane	ND	0.0050	0.002		mg/L	1	12/18/2020
2-Butanone	ND	0.020	0.0016		mg/L	1	12/18/2020
Carbon disulfide	ND	0.010	0.0003		mg/L	1	12/18/2020
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	12/18/2020
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	12/18/2020
Chloroethane	ND	0.010	0.0005		mg/L	1	12/18/2020
Chloroform	ND	0.0010	0.0001		mg/L	1	12/18/2020
Chloromethane	ND	0.010	0.0003		mg/L	1	12/18/2020
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	12/18/2020
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	12/18/2020
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	12/18/2020
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	12/18/2020
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	12/18/2020
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	12/18/2020
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	12/18/2020
2-Hexanone	ND	0.020	0.0002		mg/L	1	12/18/2020
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	12/18/2020
Methylene chloride	ND	0.0050	0.0002		mg/L	1	12/18/2020
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	12/18/2020
Styrene	ND	0.0050	0.0003		mg/L	1	12/18/2020
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	12/18/2020
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	12/18/2020
Toluene	ND	0.0050	0.0004		mg/L	1	12/18/2020
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	12/18/2020
Trichloroethene	0.0010	0.0050	0.0003	JB	mg/L	1	12/18/2020
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	12/18/2020
Xylenes, Total	ND	0.015	0.001		mg/L	1	12/18/2020

**Qualifiers:**

ND - Not Detected at the LOD

J - Analyte detected below LOQ

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 22, 2020

**ANALYTICAL RESULTS**

Date Printed: December 22, 2020

CLIENT: Hydrodynamics Consultants, Inc.

Client Sample ID: MW 4-2/4

Work Order: 20120306 Revision 0

Collection Date: 12/8/2020 12:12:00 PM

Project: Westwood Cleaners, 8731 West North Ave., Wauwato

Matrix: WATER

Lab ID: 20120306-004

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>							
		<b>SW8260B (SW5030B)</b>					
							Prep Date: Analyst: <b>CBG</b>
Acetone	ND	0.020	0.0031		mg/L	1	12/18/2020
Benzene	ND	0.0050	0.0002		mg/L	1	12/18/2020
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
Bromoform	ND	0.0010	0.0003		mg/L	1	12/18/2020
Bromomethane	ND	0.0050	0.002		mg/L	1	12/18/2020
2-Butanone	ND	0.020	0.0016		mg/L	1	12/18/2020
Carbon disulfide	ND	0.010	0.0003		mg/L	1	12/18/2020
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	12/18/2020
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	12/18/2020
Chloroethane	ND	0.010	0.0005		mg/L	1	12/18/2020
Chloroform	ND	0.0010	0.0001		mg/L	1	12/18/2020
Chloromethane	ND	0.010	0.0003		mg/L	1	12/18/2020
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	12/18/2020
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	12/18/2020
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	12/18/2020
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	12/18/2020
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	12/18/2020
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	12/18/2020
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	12/18/2020
2-Hexanone	ND	0.020	0.0002		mg/L	1	12/18/2020
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	12/18/2020
Methylene chloride	ND	0.0050	0.0002		mg/L	1	12/18/2020
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	12/18/2020
Styrene	ND	0.0050	0.0003		mg/L	1	12/18/2020
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	12/18/2020
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	12/18/2020
Toluene	ND	0.0050	0.0004		mg/L	1	12/18/2020
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	12/18/2020
Trichloroethene	0.0012	0.0050	0.0003	JB	mg/L	1	12/18/2020
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	12/18/2020
Xylenes, Total	ND	0.015	0.001		mg/L	1	12/18/2020

**Qualifiers:**

ND - Not Detected at the LOD

J - Analyte detected below LOQ

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded



**STAT Analysis Corporation**

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Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 22, 2020

**ANALYTICAL RESULTS**

Date Printed: December 22, 2020

CLIENT: Hydrodynamics Consultants, Inc.

Work Order: 20120306 Revision 0

Project: Westwood Cleaners, 8731 West North Ave., Wauwato

Lab ID: 20120306-006

Client Sample ID: MW 5-2/4D

Collection Date: 12/8/2020 12:23:00 PM

Matrix: WATER

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>							
		<b>SW8260B (SW5030B)</b>					
							Prep Date: Analyst: <b>BAL</b>
Acetone	ND	0.20	0.031		mg/L	10	12/17/2020
Benzene	ND	0.050	0.002		mg/L	10	12/17/2020
Bromodichloromethane	ND	0.050	0.002		mg/L	10	12/17/2020
Bromoform	ND	0.010	0.003		mg/L	10	12/17/2020
Bromomethane	ND	0.050	0.02		mg/L	10	12/17/2020
2-Butanone	ND	0.20	0.016		mg/L	10	12/17/2020
Carbon disulfide	ND	0.10	0.003		mg/L	10	12/17/2020
Carbon tetrachloride	ND	0.050	0.01		mg/L	10	12/17/2020
Chlorobenzene	ND	0.050	0.002		mg/L	10	12/17/2020
Chloroethane	ND	0.10	0.005		mg/L	10	12/17/2020
Chloroform	0.011	0.020	0.001	JB	mg/L	10	12/17/2020
Chloromethane	ND	0.10	0.003		mg/L	10	12/17/2020
Dibromochloromethane	ND	0.050	0.002		mg/L	10	12/17/2020
1,1-Dichloroethane	ND	0.050	0.002		mg/L	10	12/17/2020
1,2-Dichloroethane	ND	0.050	0.002		mg/L	10	12/17/2020
1,1-Dichloroethene	ND	0.050	0.004		mg/L	10	12/17/2020
cis-1,2-Dichloroethene	ND	0.050	0.002		mg/L	10	12/17/2020
trans-1,2-Dichloroethene	ND	0.050	0.005		mg/L	10	12/17/2020
1,2-Dichloropropane	ND	0.050	0.001		mg/L	10	12/17/2020
cis-1,3-Dichloropropene	ND	0.010	0.002		mg/L	10	12/17/2020
trans-1,3-Dichloropropene	ND	0.010	0.001		mg/L	10	12/17/2020
Ethylbenzene	ND	0.050	0.003		mg/L	10	12/17/2020
2-Hexanone	ND	0.20	0.002		mg/L	10	12/17/2020
4-Methyl-2-pentanone	ND	0.20	0.007		mg/L	10	12/17/2020
Methylene chloride	ND	0.050	0.002		mg/L	10	12/17/2020
Methyl tert-butyl ether	ND	0.050	0.003		mg/L	10	12/17/2020
Styrene	ND	0.050	0.003		mg/L	10	12/17/2020
1,1,2,2-Tetrachloroethane	ND	0.050	0.001		mg/L	10	12/17/2020
Tetrachloroethene	1.7	0.050	0.003		mg/L	10	12/17/2020
Toluene	ND	0.050	0.004		mg/L	10	12/17/2020
1,1,1-Trichloroethane	ND	0.050	0.002		mg/L	10	12/17/2020
1,1,2-Trichloroethane	ND	0.050	0.001		mg/L	10	12/17/2020
Trichloroethene	0.12	0.050	0.003		mg/L	10	12/17/2020
Vinyl chloride	0.0078	0.020	0.003	J	mg/L	10	12/17/2020
Xylenes, Total	ND	0.15	0.01		mg/L	10	12/17/2020

<b>Qualifiers:</b>	ND - Not Detected at the LOD	LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis
	J - Analyte detected below LOQ	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 22, 2020

**ANALYTICAL RESULTS**

Date Printed: December 22, 2020

CLIENT: Hydrodynamics Consultants, Inc.

Client Sample ID: MW 6-2/4

Work Order: 20120306 Revision 0

Collection Date: 12/8/2020 12:30:00 PM

Project: Westwood Cleaners, 8731 West North Ave., Wauwato

Matrix: WATER

Lab ID: 20120306-007

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS**

SW8260B (SW5030B)

Prep Date:

Analyst: CBG

Acetone	ND	0.020	0.0031		mg/L	1	12/18/2020
Benzene	ND	0.0050	0.0002		mg/L	1	12/18/2020
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
Bromoform	ND	0.0010	0.0003		mg/L	1	12/18/2020
Bromomethane	ND	0.0050	0.002		mg/L	1	12/18/2020
2-Butanone	ND	0.020	0.0016		mg/L	1	12/18/2020
Carbon disulfide	ND	0.010	0.0003		mg/L	1	12/18/2020
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	12/18/2020
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	12/18/2020
Chloroethane	ND	0.010	0.0005		mg/L	1	12/18/2020
Chloroform	ND	0.0010	0.0001		mg/L	1	12/18/2020
Chloromethane	ND	0.010	0.0003		mg/L	1	12/18/2020
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	12/18/2020
cis-1,2-Dichloroethene	0.0046	0.0050	0.0002	J	mg/L	1	12/18/2020
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	12/18/2020
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	12/18/2020
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	12/18/2020
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	12/18/2020
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	12/18/2020
2-Hexanone	ND	0.020	0.0002		mg/L	1	12/18/2020
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	12/18/2020
Methylene chloride	ND	0.0050	0.0002		mg/L	1	12/18/2020
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	12/18/2020
Styrene	ND	0.0050	0.0003		mg/L	1	12/18/2020
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	12/18/2020
Tetrachloroethene	0.70	0.050	0.003		mg/L	10	12/17/2020
Toluene	ND	0.0050	0.0004		mg/L	1	12/18/2020
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	12/18/2020
Trichloroethene	0.039	0.0050	0.0003		mg/L	1	12/18/2020
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	12/18/2020
Xylenes, Total	ND	0.015	0.001		mg/L	1	12/18/2020

**Qualifiers:**

ND - Not Detected at the LOD

J - Analyte detected below LOQ

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 22, 2020

**ANALYTICAL RESULTS**

Date Printed: December 22, 2020

CLIENT: Hydrodynamics Consultants, Inc.

Client Sample ID: MW 7-2/4

Work Order: 20120306 Revision 0

Collection Date: 12/8/2020 12:38:00 PM

Project: Westwood Cleaners, 8731 West North Ave., Wauwato

Matrix: WATER

Lab ID: 20120306-008

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS**

SW8260B (SW5030B)

Prep Date:

Analyst: CBG

Acetone	ND	0.020	0.0031		mg/L	1	12/18/2020
Benzene	ND	0.0050	0.0002		mg/L	1	12/18/2020
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
Bromoform	ND	0.0010	0.0003		mg/L	1	12/18/2020
Bromomethane	ND	0.0050	0.002		mg/L	1	12/18/2020
2-Butanone	ND	0.020	0.0016		mg/L	1	12/18/2020
Carbon disulfide	ND	0.010	0.0003		mg/L	1	12/18/2020
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	12/18/2020
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	12/18/2020
Chloroethane	ND	0.010	0.0005		mg/L	1	12/18/2020
Chloroform	ND	0.0010	0.0001		mg/L	1	12/18/2020
Chloromethane	ND	0.010	0.0003		mg/L	1	12/18/2020
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	12/18/2020
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	12/18/2020
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	12/18/2020
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	12/18/2020
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	12/18/2020
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	12/18/2020
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	12/18/2020
2-Hexanone	ND	0.020	0.0002		mg/L	1	12/18/2020
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	12/18/2020
Methylene chloride	ND	0.0050	0.0002		mg/L	1	12/18/2020
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	12/18/2020
Styrene	ND	0.0050	0.0003		mg/L	1	12/18/2020
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	12/18/2020
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	12/18/2020
Toluene	ND	0.0050	0.0004		mg/L	1	12/18/2020
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	12/18/2020
Trichloroethene	0.0011	0.0050	0.0003	JB	mg/L	1	12/18/2020
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	12/18/2020
Xylenes, Total	ND	0.015	0.001		mg/L	1	12/18/2020

**Qualifiers:**

ND - Not Detected at the LOD

J - Analyte detected below LOQ

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 22, 2020

**ANALYTICAL RESULTS**

Date Printed: December 22, 2020

CLIENT: Hydrodynamics Consultants, Inc.

Work Order: 20120306 Revision 0

Project: Westwood Cleaners, 8731 West North Ave., Wauwato

Lab ID: 20120306-009

Client Sample ID: MW 8-2/4

Collection Date: 12/8/2020 12:45:00 PM

Matrix: WATER

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>							
		<b>SW8260B (SW5030B)</b>					
							Prep Date: Analyst: <b>CBG</b>
Acetone	ND	0.020	0.0031		mg/L	1	12/18/2020
Benzene	ND	0.0050	0.0002		mg/L	1	12/18/2020
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
Bromoform	ND	0.0010	0.0003		mg/L	1	12/18/2020
Bromomethane	ND	0.0050	0.002		mg/L	1	12/18/2020
2-Butanone	ND	0.020	0.0016		mg/L	1	12/18/2020
Carbon disulfide	ND	0.010	0.0003		mg/L	1	12/18/2020
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	12/18/2020
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	12/18/2020
Chloroethane	ND	0.010	0.0005		mg/L	1	12/18/2020
Chloroform	ND	0.0010	0.0001		mg/L	1	12/18/2020
Chloromethane	ND	0.010	0.0003		mg/L	1	12/18/2020
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	12/18/2020
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	12/18/2020
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	12/18/2020
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	12/18/2020
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	12/18/2020
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	12/18/2020
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	12/18/2020
2-Hexanone	ND	0.020	0.0002		mg/L	1	12/18/2020
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	12/18/2020
Methylene chloride	ND	0.0050	0.0002		mg/L	1	12/18/2020
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	12/18/2020
Styrene	ND	0.0050	0.0003		mg/L	1	12/18/2020
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	12/18/2020
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	12/18/2020
Toluene	ND	0.0050	0.0004		mg/L	1	12/18/2020
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	12/18/2020
Trichloroethene	0.0011	0.0050	0.0003	JB	mg/L	1	12/18/2020
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	12/18/2020
Xylenes, Total	ND	0.015	0.001		mg/L	1	12/18/2020

**Qualifiers:**

ND - Not Detected at the LOD

J - Analyte detected below LOQ

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 22, 2020

**ANALYTICAL RESULTS**

Date Printed: December 22, 2020

CLIENT: Hydrodynamics Consultants, Inc.

Client Sample ID: MW 9-2/4

Work Order: 20120306 Revision 0

Collection Date: 12/8/2020 12:52:00 PM

Project: Westwood Cleaners, 8731 West North Ave., Wauwato

Matrix: WATER

Lab ID: 20120306-010

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS**

SW8260B (SW5030B)

Prep Date:

Analyst: CBG

Acetone	ND	0.020	0.0031		mg/L	1	12/18/2020
Benzene	ND	0.0050	0.0002		mg/L	1	12/18/2020
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
Bromoform	ND	0.0010	0.0003		mg/L	1	12/18/2020
Bromomethane	ND	0.0050	0.002		mg/L	1	12/18/2020
2-Butanone	ND	0.020	0.0016		mg/L	1	12/18/2020
Carbon disulfide	ND	0.010	0.0003		mg/L	1	12/18/2020
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	12/18/2020
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	12/18/2020
Chloroethane	ND	0.010	0.0005		mg/L	1	12/18/2020
Chloroform	ND	0.0010	0.0001		mg/L	1	12/18/2020
Chloromethane	ND	0.010	0.0003		mg/L	1	12/18/2020
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	12/18/2020
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	12/18/2020
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	12/18/2020
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	12/18/2020
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	12/18/2020
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	12/18/2020
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	12/18/2020
2-Hexanone	ND	0.020	0.0002		mg/L	1	12/18/2020
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	12/18/2020
Methylene chloride	ND	0.0050	0.0002		mg/L	1	12/18/2020
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	12/18/2020
Styrene	ND	0.0050	0.0003		mg/L	1	12/18/2020
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	12/18/2020
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	12/18/2020
Toluene	ND	0.0050	0.0004		mg/L	1	12/18/2020
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	12/18/2020
Trichloroethene	0.00096	0.0050	0.0003	JB	mg/L	1	12/18/2020
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	12/18/2020
Xylenes, Total	ND	0.015	0.001		mg/L	1	12/18/2020

ND - Not Detected at the LOD

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

**Qualifiers:**

J - Analyte detected below LOQ

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded



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Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 22, 2020

**ANALYTICAL RESULTS**

Date Printed: December 22, 2020

CLIENT: Hydrodynamics Consultants, Inc.

Client Sample ID: MW TB-2/4

Work Order: 20120306 Revision 0

Collection Date: 12/8/2020 8:45:00 AM

Project: Westwood Cleaners, 8731 West North Ave., Wauwato

Matrix: WATER

Lab ID: 20120306-011

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS****SW8260B (SW5030B)**

Prep Date:

Analyst: **BAL**

Acetone	ND	0.020	0.0031		mg/L	1	12/18/2020
Benzene	ND	0.0050	0.0002		mg/L	1	12/18/2020
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
Bromoform	ND	0.0010	0.0003		mg/L	1	12/18/2020
Bromomethane	ND	0.0050	0.002		mg/L	1	12/18/2020
2-Butanone	ND	0.020	0.0016		mg/L	1	12/18/2020
Carbon disulfide	ND	0.010	0.0003		mg/L	1	12/18/2020
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	12/18/2020
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	12/18/2020
Chloroethane	ND	0.010	0.0005		mg/L	1	12/18/2020
Chloroform	ND	0.0010	0.0001		mg/L	1	12/18/2020
Chloromethane	ND	0.010	0.0003		mg/L	1	12/18/2020
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	12/18/2020
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	12/18/2020
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	12/18/2020
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	12/18/2020
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	12/18/2020
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	12/18/2020
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	12/18/2020
2-Hexanone	ND	0.020	0.0002		mg/L	1	12/18/2020
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	12/18/2020
Methylene chloride	ND	0.0050	0.0002		mg/L	1	12/18/2020
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	12/18/2020
Styrene	ND	0.0050	0.0003		mg/L	1	12/18/2020
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	12/18/2020
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	12/18/2020
Toluene	ND	0.0050	0.0004		mg/L	1	12/18/2020
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	12/18/2020
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	12/18/2020
Trichloroethene	ND	0.0050	0.0003		mg/L	1	12/18/2020
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	12/18/2020
Xylenes, Total	ND	0.015	0.001		mg/L	1	12/18/2020

ND - Not Detected at the LOD

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

**Qualifiers:**

J - Analyte detected below LOQ

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded



### Sample Receipt Checklist

Client Name HYDRODYNAMICS

Date and Time Received: 12/9/2020 3:25:00 PM

Work Order Number 20120306

Received by: JTM

Checklist completed by: [Signature] 12/9/20  
Signature Date

Reviewed by: CE 12/10/20  
Initials Date

Matrix: Carrier name: STAT Analysis

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels/containers? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Container or Temp Blank temperature in compliance? Yes  No  Temperature 3.6 °C
- Water - VOA vials have zero headspace? No VOA vials submitted  Yes  No
- Water - Samples pH checked? Yes  No  Checked by: \_\_\_\_\_
- Water - Samples properly preserved? Yes  No  pH Adjusted? \_\_\_\_\_

Any No response must be detailed in the comments section below.

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Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Client / Person contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Response: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

December 14, 2020

Hydrodynamics Consultants, Inc.  
5403 Patton Drive  
Lisle, IL 60532

Telephone: (630) 724-0098  
Fax: (800) 881-2051

Analytical Report for STAT Work Order: 20120307 Revision 0

RE: Westwood Cleaners, 8731 W. North Avenue, Wauwatosa, WI

Dear Hydrodynamics Consultants, Inc.:

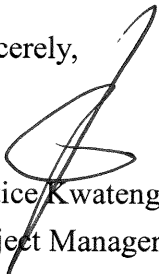
STAT Analysis received 8 samples for the referenced project on 12/9/2020 3:25:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAP standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Justice Kwateng  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples as received and tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

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**Client:** Hydrodynamics Consultants, Inc.**Project:** Westwood Cleaners, 8731 W. North Avenue, Wauwato**Work Order Sample Summary****Work Order:** 20120307 Revision 0

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Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
20120307-001A	SV1-2/4		12/8/2020 1:00:00 PM	12/9/2020
20120307-002A	SV2-2/4		12/8/2020 12:30:00 PM	12/9/2020
20120307-003A	SV3-2/4		12/8/2020 11:00:00 AM	12/9/2020
20120307-004A	SV4-2/4		12/8/2020 11:45:00 AM	12/9/2020
20120307-005A	SV5-2/4		12/8/2020 12:45:00 PM	12/9/2020
20120307-006A	SV6-2/4		12/8/2020 12:02:00 PM	12/9/2020
20120307-007A	SV7-2/4		12/8/2020 10:45:00 AM	12/9/2020
20120307-008A	SV2-2/4D		12/8/2020 1:15:00 PM	12/9/2020

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**CLIENT:** Hydrodynamics Consultants, Inc.  
**Project:** Westwood Cleaners, 8731 W. North Avenue, Wauwatosa, W  
**Work Order:** 20120307 Revision 0

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**CASE NARRATIVE**

TO-15 results that are reported in mg/m<sup>3</sup> are calculated based on a temperature of 25°C, atmospheric pressure of 760 mm Hg, and the molecular weight of the analyte.

The TO-15 Continuing Calibration Verification (CCV) had recovery outside of control limits for Dichlorodifluoromethane (174% recovery, QC Limits 70-130%).

The TO-15 Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) analyzed 12/11/2020 had recovery of Dichlorodifluoromethane outside of control limits (170%/171% (LCS/LCSD) recovery, QC limits 70-130%).

**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 14, 2020

**ANALYTICAL RESULTS**

Date Printed: December 14, 2020

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV1-2/4

Work Order: 20120307 Revision 0

Collection Date: 12/8/2020 1:00:00 PM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 20120307-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: 12/9/2020		Analyst: MAS
1,1,1-Trichloroethane	ND	0.0016		mg/m <sup>3</sup>	1	12/11/2020
1,1,2-Trichloroethane	ND	0.0016		mg/m <sup>3</sup>	1	12/11/2020
1,1-Dichloroethane	ND	0.0011		mg/m <sup>3</sup>	1	12/11/2020
1,1-Dichloroethene	ND	0.0011		mg/m <sup>3</sup>	1	12/11/2020
1,2,4-Trichlorobenzene	0.0025	0.0021		mg/m <sup>3</sup>	1	12/11/2020
1,2-Dibromoethane	ND	0.0021		mg/m <sup>3</sup>	1	12/11/2020
1,2-Dichlorobenzene	ND	0.0017		mg/m <sup>3</sup>	1	12/11/2020
1,2-Dichloroethane	ND	0.0011		mg/m <sup>3</sup>	1	12/11/2020
1,2-Dichloropropane	ND	0.0013		mg/m <sup>3</sup>	1	12/11/2020
1,4-Dichlorobenzene	ND	0.0017		mg/m <sup>3</sup>	1	12/11/2020
1,4-Dioxane	ND	0.0026		mg/m <sup>3</sup>	1	12/11/2020
2-Butanone	0.0024	0.0021		mg/m <sup>3</sup>	1	12/11/2020
Acetone	0.0096	0.0069	*	mg/m <sup>3</sup>	1	12/11/2020
Benzene	ND	0.00086		mg/m <sup>3</sup>	1	12/11/2020
Bromodichloromethane	ND	0.0019		mg/m <sup>3</sup>	1	12/11/2020
Bromoform	ND	0.0074		mg/m <sup>3</sup>	1	12/11/2020
Bromomethane	ND	0.0027		mg/m <sup>3</sup>	1	12/11/2020
Carbon disulfide	0.00089	0.00089		mg/m <sup>3</sup>	1	12/11/2020
Carbon tetrachloride	ND	0.0019		mg/m <sup>3</sup>	1	12/11/2020
Chlorobenzene	ND	0.0013		mg/m <sup>3</sup>	1	12/11/2020
Chloroform	0.0070	0.0014		mg/m <sup>3</sup>	1	12/11/2020
cis-1,2-Dichloroethene	ND	0.0011		mg/m <sup>3</sup>	1	12/11/2020
cis-1,3-Dichloropropene	ND	0.0013		mg/m <sup>3</sup>	1	12/11/2020
Dibromochloromethane	ND	0.0024		mg/m <sup>3</sup>	1	12/11/2020
Dichlorodifluoromethane	0.0045	0.0014		mg/m <sup>3</sup>	1	12/11/2020
Ethylbenzene	0.0030	0.0013		mg/m <sup>3</sup>	1	12/11/2020
Isopropyl Alcohol	0.046	0.0036		mg/m <sup>3</sup>	1	12/11/2020
m,p-Xylene	0.014	0.0024		mg/m <sup>3</sup>	1	12/11/2020
Methyl tert-butyl ether	ND	0.0010		mg/m <sup>3</sup>	1	12/11/2020
Methylene chloride	ND	0.0099		mg/m <sup>3</sup>	1	12/11/2020
Naphthalene	0.0042	0.0014		mg/m <sup>3</sup>	1	12/11/2020
o-Xylene	0.0046	0.0013		mg/m <sup>3</sup>	1	12/11/2020
Styrene	ND	0.0013		mg/m <sup>3</sup>	1	12/11/2020
Tetrachloroethene	0.043	0.0020		mg/m <sup>3</sup>	1	12/11/2020
Toluene	0.011	0.0011		mg/m <sup>3</sup>	1	12/11/2020
trans-1,2-Dichloroethene	ND	0.0011		mg/m <sup>3</sup>	1	12/11/2020
trans-1,3-Dichloropropene	ND	0.0013		mg/m <sup>3</sup>	1	12/11/2020
Trichloroethene	ND	0.0016		mg/m <sup>3</sup>	1	12/11/2020

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 14, 2020

**ANALYTICAL RESULTS**

Date Printed: December 14, 2020

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV1-2/4

Work Order: 20120307 Revision 0

Collection Date: 12/8/2020 1:00:00 PM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 20120307-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>				Prep Date: <b>12/9/2020</b>	Analyst: <b>MAS</b>
Trichlorofluoromethane	ND	0.0016		mg/m <sup>3</sup>	1	12/11/2020
Vinyl acetate	ND	0.010		mg/m <sup>3</sup>	1	12/11/2020
Vinyl chloride	ND	0.00071		mg/m <sup>3</sup>	1	12/11/2020
Xylenes, Total	0.018	0.0037		mg/m <sup>3</sup>	1	12/11/2020

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded



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Date Reported: December 14, 2020

**ANALYTICAL RESULTS**

Date Printed: December 14, 2020

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV2-2/4

Work Order: 20120307 Revision 0

Collection Date: 12/8/2020 12:30:00 PM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 20120307-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: 12/9/2020		Analyst: MAS
1,1,1-Trichloroethane	ND	0.0018		mg/m <sup>3</sup>	1	12/11/2020
1,1,2-Trichloroethane	ND	0.0018		mg/m <sup>3</sup>	1	12/11/2020
1,1-Dichloroethane	ND	0.0013		mg/m <sup>3</sup>	1	12/11/2020
1,1-Dichloroethene	ND	0.0013		mg/m <sup>3</sup>	1	12/11/2020
1,2,4-Trichlorobenzene	0.0028	0.0025		mg/m <sup>3</sup>	1	12/11/2020
1,2-Dibromoethane	ND	0.0025		mg/m <sup>3</sup>	1	12/11/2020
1,2-Dichlorobenzene	ND	0.0020		mg/m <sup>3</sup>	1	12/11/2020
1,2-Dichloroethane	ND	0.0013		mg/m <sup>3</sup>	1	12/11/2020
1,2-Dichloropropane	ND	0.0015		mg/m <sup>3</sup>	1	12/11/2020
1,4-Dichlorobenzene	ND	0.0020		mg/m <sup>3</sup>	1	12/11/2020
1,4-Dioxane	ND	0.0030		mg/m <sup>3</sup>	1	12/11/2020
2-Butanone	ND	0.0025		mg/m <sup>3</sup>	1	12/11/2020
Acetone	0.011	0.0079	*	mg/m <sup>3</sup>	1	12/11/2020
Benzene	ND	0.00099		mg/m <sup>3</sup>	1	12/11/2020
Bromodichloromethane	ND	0.0021		mg/m <sup>3</sup>	1	12/11/2020
Bromoform	ND	0.0086		mg/m <sup>3</sup>	1	12/11/2020
Bromomethane	ND	0.0031		mg/m <sup>3</sup>	1	12/11/2020
Carbon disulfide	ND	0.0010		mg/m <sup>3</sup>	1	12/11/2020
Carbon tetrachloride	ND	0.0021		mg/m <sup>3</sup>	1	12/11/2020
Chlorobenzene	ND	0.0015		mg/m <sup>3</sup>	1	12/11/2020
Chloroform	ND	0.0017		mg/m <sup>3</sup>	1	12/11/2020
cis-1,2-Dichloroethene	ND	0.0013		mg/m <sup>3</sup>	1	12/11/2020
cis-1,3-Dichloropropene	ND	0.0015		mg/m <sup>3</sup>	1	12/11/2020
Dibromochloromethane	ND	0.0028		mg/m <sup>3</sup>	1	12/11/2020
Dichlorodifluoromethane	0.0046	0.0017		mg/m <sup>3</sup>	1	12/11/2020
Ethylbenzene	0.0015	0.0015		mg/m <sup>3</sup>	1	12/11/2020
Isopropyl Alcohol	0.011	0.0041		mg/m <sup>3</sup>	1	12/11/2020
m,p-Xylene	0.0078	0.0028		mg/m <sup>3</sup>	1	12/11/2020
Methyl tert-butyl ether	ND	0.0012		mg/m <sup>3</sup>	1	12/11/2020
Methylene chloride	ND	0.011		mg/m <sup>3</sup>	1	12/11/2020
Naphthalene	0.0036	0.0017		mg/m <sup>3</sup>	1	12/11/2020
o-Xylene	0.0028	0.0015		mg/m <sup>3</sup>	1	12/11/2020
Styrene	ND	0.0015		mg/m <sup>3</sup>	1	12/11/2020
Tetrachloroethene	0.032	0.0023		mg/m <sup>3</sup>	1	12/11/2020
Toluene	0.0056	0.0013		mg/m <sup>3</sup>	1	12/11/2020
trans-1,2-Dichloroethene	ND	0.0013		mg/m <sup>3</sup>	1	12/11/2020
trans-1,3-Dichloropropene	ND	0.0015		mg/m <sup>3</sup>	1	12/11/2020
Trichloroethene	ND	0.0018		mg/m <sup>3</sup>	1	12/11/2020

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 14, 2020

**ANALYTICAL RESULTS**

Date Printed: December 14, 2020

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV2-2/4

Work Order: 20120307 Revision 0

Collection Date: 12/8/2020 12:30:00 PM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 20120307-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>				Prep Date: <b>12/9/2020</b>	Analyst: <b>MAS</b>
Trichlorofluoromethane	ND	0.0018		mg/m <sup>3</sup>	1	12/11/2020
Vinyl acetate	ND	0.012		mg/m <sup>3</sup>	1	12/11/2020
Vinyl chloride	ND	0.00083		mg/m <sup>3</sup>	1	12/11/2020
Xylenes, Total	0.011	0.0043		mg/m <sup>3</sup>	1	12/11/2020

**Qualifiers:**

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 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Date Reported: December 14, 2020

**ANALYTICAL RESULTS**

Date Printed: December 14, 2020

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV3-2/4

Work Order: 20120307 Revision 0

Collection Date: 12/8/2020 11:00:00 AM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 20120307-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: 12/9/2020		Analyst: MAS
1,1,1-Trichloroethane	ND	0.0019		mg/m <sup>3</sup>	1	12/11/2020
1,1,2-Trichloroethane	ND	0.0019		mg/m <sup>3</sup>	1	12/11/2020
1,1-Dichloroethane	ND	0.0014		mg/m <sup>3</sup>	1	12/11/2020
1,1-Dichloroethene	ND	0.0014		mg/m <sup>3</sup>	1	12/11/2020
1,2,4-Trichlorobenzene	ND	0.0026		mg/m <sup>3</sup>	1	12/11/2020
1,2-Dibromoethane	ND	0.0026		mg/m <sup>3</sup>	1	12/11/2020
1,2-Dichlorobenzene	ND	0.0021		mg/m <sup>3</sup>	1	12/11/2020
1,2-Dichloroethane	ND	0.0014		mg/m <sup>3</sup>	1	12/11/2020
1,2-Dichloropropane	ND	0.0016		mg/m <sup>3</sup>	1	12/11/2020
1,4-Dichlorobenzene	ND	0.0021		mg/m <sup>3</sup>	1	12/11/2020
1,4-Dioxane	ND	0.0031		mg/m <sup>3</sup>	1	12/11/2020
2-Butanone	0.0096	0.0026		mg/m <sup>3</sup>	1	12/11/2020
Acetone	0.030	0.0083	*	mg/m <sup>3</sup>	1	12/11/2020
Benzene	0.0017	0.0010		mg/m <sup>3</sup>	1	12/11/2020
Bromodichloromethane	ND	0.0022		mg/m <sup>3</sup>	1	12/11/2020
Bromoform	ND	0.0090		mg/m <sup>3</sup>	1	12/11/2020
Bromomethane	ND	0.0033		mg/m <sup>3</sup>	1	12/11/2020
Carbon disulfide	0.0018	0.0011		mg/m <sup>3</sup>	1	12/11/2020
Carbon tetrachloride	ND	0.0022		mg/m <sup>3</sup>	1	12/11/2020
Chlorobenzene	ND	0.0016		mg/m <sup>3</sup>	1	12/11/2020
Chloroform	0.0019	0.0017		mg/m <sup>3</sup>	1	12/11/2020
cis-1,2-Dichloroethene	ND	0.0014		mg/m <sup>3</sup>	1	12/11/2020
cis-1,3-Dichloropropene	ND	0.0016		mg/m <sup>3</sup>	1	12/11/2020
Dibromochloromethane	ND	0.0029		mg/m <sup>3</sup>	1	12/11/2020
Dichlorodifluoromethane	0.0041	0.0017		mg/m <sup>3</sup>	1	12/11/2020
Ethylbenzene	0.0077	0.0016		mg/m <sup>3</sup>	1	12/11/2020
Isopropyl Alcohol	0.41	0.043		mg/m <sup>3</sup>	10	12/11/2020
m,p-Xylene	0.037	0.0029		mg/m <sup>3</sup>	1	12/11/2020
Methyl tert-butyl ether	ND	0.0012		mg/m <sup>3</sup>	1	12/11/2020
Methylene chloride	ND	0.012		mg/m <sup>3</sup>	1	12/11/2020
Naphthalene	0.0040	0.0017		mg/m <sup>3</sup>	1	12/11/2020
o-Xylene	0.013	0.0016		mg/m <sup>3</sup>	1	12/11/2020
Styrene	ND	0.0016		mg/m <sup>3</sup>	1	12/11/2020
Tetrachloroethene	0.13	0.0024		mg/m <sup>3</sup>	1	12/11/2020
Toluene	0.031	0.0014		mg/m <sup>3</sup>	1	12/11/2020
trans-1,2-Dichloroethene	ND	0.0014		mg/m <sup>3</sup>	1	12/11/2020
trans-1,3-Dichloropropene	ND	0.0016		mg/m <sup>3</sup>	1	12/11/2020
Trichloroethene	0.0020	0.0019		mg/m <sup>3</sup>	1	12/11/2020

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Date Reported: December 14, 2020

**ANALYTICAL RESULTS**

Date Printed: December 14, 2020

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV3-2/4

Work Order: 20120307 Revision 0

Collection Date: 12/8/2020 11:00:00 AM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 20120307-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>				Prep Date: <b>12/9/2020</b>	Analyst: <b>MAS</b>
Trichlorofluoromethane	ND	0.0019		mg/m <sup>3</sup>	1	12/11/2020
Vinyl acetate	ND	0.012		mg/m <sup>3</sup>	1	12/11/2020
Vinyl chloride	ND	0.00086		mg/m <sup>3</sup>	1	12/11/2020
Xylenes, Total	0.050	0.0045		mg/m <sup>3</sup>	1	12/11/2020

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
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Date Reported: December 14, 2020

**ANALYTICAL RESULTS**

Date Printed: December 14, 2020

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV4-2/4

Work Order: 20120307 Revision 0

Collection Date: 12/8/2020 11:45:00 AM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 20120307-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: 12/9/2020		Analyst: MAS
1,1,1-Trichloroethane	ND	0.0019		mg/m <sup>3</sup>	1	12/11/2020
1,1,2-Trichloroethane	ND	0.0019		mg/m <sup>3</sup>	1	12/11/2020
1,1-Dichloroethane	ND	0.0014		mg/m <sup>3</sup>	1	12/11/2020
1,1-Dichloroethene	ND	0.0014		mg/m <sup>3</sup>	1	12/11/2020
1,2,4-Trichlorobenzene	ND	0.0027		mg/m <sup>3</sup>	1	12/11/2020
1,2-Dibromoethane	ND	0.0027		mg/m <sup>3</sup>	1	12/11/2020
1,2-Dichlorobenzene	ND	0.0021		mg/m <sup>3</sup>	1	12/11/2020
1,2-Dichloroethane	ND	0.0014		mg/m <sup>3</sup>	1	12/11/2020
1,2-Dichloropropane	ND	0.0016		mg/m <sup>3</sup>	1	12/11/2020
1,4-Dichlorobenzene	ND	0.0021		mg/m <sup>3</sup>	1	12/11/2020
1,4-Dioxane	ND	0.0032		mg/m <sup>3</sup>	1	12/11/2020
2-Butanone	0.0036	0.0027		mg/m <sup>3</sup>	1	12/11/2020
Acetone	0.010	0.0085	*	mg/m <sup>3</sup>	1	12/11/2020
Benzene	ND	0.0011		mg/m <sup>3</sup>	1	12/11/2020
Bromodichloromethane	ND	0.0023		mg/m <sup>3</sup>	1	12/11/2020
Bromoform	ND	0.0092		mg/m <sup>3</sup>	1	12/11/2020
Bromomethane	ND	0.0034		mg/m <sup>3</sup>	1	12/11/2020
Carbon disulfide	ND	0.0011		mg/m <sup>3</sup>	1	12/11/2020
Carbon tetrachloride	ND	0.0023		mg/m <sup>3</sup>	1	12/11/2020
Chlorobenzene	ND	0.0016		mg/m <sup>3</sup>	1	12/11/2020
Chloroform	0.0024	0.0018		mg/m <sup>3</sup>	1	12/11/2020
cis-1,2-Dichloroethene	ND	0.0014		mg/m <sup>3</sup>	1	12/11/2020
cis-1,3-Dichloropropene	ND	0.0016		mg/m <sup>3</sup>	1	12/11/2020
Dibromochloromethane	ND	0.0030		mg/m <sup>3</sup>	1	12/11/2020
Dichlorodifluoromethane	0.0040	0.0018		mg/m <sup>3</sup>	1	12/11/2020
Ethylbenzene	0.0034	0.0016		mg/m <sup>3</sup>	1	12/11/2020
Isopropyl Alcohol	0.13	0.0044		mg/m <sup>3</sup>	1	12/11/2020
m,p-Xylene	0.016	0.0030		mg/m <sup>3</sup>	1	12/11/2020
Methyl tert-butyl ether	ND	0.0012		mg/m <sup>3</sup>	1	12/11/2020
Methylene chloride	ND	0.012		mg/m <sup>3</sup>	1	12/11/2020
Naphthalene	0.0044	0.0018		mg/m <sup>3</sup>	1	12/11/2020
o-Xylene	0.0067	0.0016		mg/m <sup>3</sup>	1	12/11/2020
Styrene	ND	0.0016		mg/m <sup>3</sup>	1	12/11/2020
Tetrachloroethene	0.16	0.0025		mg/m <sup>3</sup>	1	12/11/2020
Toluene	0.010	0.0014		mg/m <sup>3</sup>	1	12/11/2020
trans-1,2-Dichloroethene	ND	0.0014		mg/m <sup>3</sup>	1	12/11/2020
trans-1,3-Dichloropropene	ND	0.0016		mg/m <sup>3</sup>	1	12/11/2020
Trichloroethene	ND	0.0019		mg/m <sup>3</sup>	1	12/11/2020

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Date Reported: December 14, 2020

**ANALYTICAL RESULTS**

Date Printed: December 14, 2020

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV4-2/4

Work Order: 20120307 Revision 0

Collection Date: 12/8/2020 11:45:00 AM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 20120307-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Volatile Organic Compounds in Air by GC/MS</b>	<b>TO-15</b>				Prep Date: <b>12/9/2020</b>	Analyst: <b>MAS</b>
Trichlorofluoromethane	ND	0.0019		mg/m <sup>3</sup>	1	12/11/2020
Vinyl acetate	ND	0.012		mg/m <sup>3</sup>	1	12/11/2020
Vinyl chloride	ND	0.00088		mg/m <sup>3</sup>	1	12/11/2020
Xylenes, Total	0.022	0.0046		mg/m <sup>3</sup>	1	12/11/2020

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
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 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 14, 2020

**ANALYTICAL RESULTS**

Date Printed: December 14, 2020

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV5-2/4

Work Order: 20120307 Revision 0

Collection Date: 12/8/2020 12:45:00 PM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 20120307-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: 12/9/2020		Analyst: MAS
1,1,1-Trichloroethane	ND	0.0021		mg/m <sup>3</sup>	1	12/11/2020
1,1,2-Trichloroethane	ND	0.0021		mg/m <sup>3</sup>	1	12/11/2020
1,1-Dichloroethane	ND	0.0015		mg/m <sup>3</sup>	1	12/11/2020
1,1-Dichloroethene	ND	0.0015		mg/m <sup>3</sup>	1	12/11/2020
1,2,4-Trichlorobenzene	ND	0.0029		mg/m <sup>3</sup>	1	12/11/2020
1,2-Dibromoethane	ND	0.0029		mg/m <sup>3</sup>	1	12/11/2020
1,2-Dichlorobenzene	ND	0.0023		mg/m <sup>3</sup>	1	12/11/2020
1,2-Dichloroethane	ND	0.0015		mg/m <sup>3</sup>	1	12/11/2020
1,2-Dichloropropane	ND	0.0017		mg/m <sup>3</sup>	1	12/11/2020
1,4-Dichlorobenzene	ND	0.0023		mg/m <sup>3</sup>	1	12/11/2020
1,4-Dioxane	ND	0.0034		mg/m <sup>3</sup>	1	12/11/2020
2-Butanone	0.0032	0.0029		mg/m <sup>3</sup>	1	12/11/2020
Acetone	0.014	0.0092	*	mg/m <sup>3</sup>	1	12/11/2020
Benzene	ND	0.0011		mg/m <sup>3</sup>	1	12/11/2020
Bromodichloromethane	ND	0.0025		mg/m <sup>3</sup>	1	12/11/2020
Bromoform	ND	0.010		mg/m <sup>3</sup>	1	12/11/2020
Bromomethane	ND	0.0036		mg/m <sup>3</sup>	1	12/11/2020
Carbon disulfide	ND	0.0012		mg/m <sup>3</sup>	1	12/11/2020
Carbon tetrachloride	ND	0.0025		mg/m <sup>3</sup>	1	12/11/2020
Chlorobenzene	ND	0.0017		mg/m <sup>3</sup>	1	12/11/2020
Chloroform	ND	0.0019		mg/m <sup>3</sup>	1	12/11/2020
cis-1,2-Dichloroethene	ND	0.0015		mg/m <sup>3</sup>	1	12/11/2020
cis-1,3-Dichloropropene	ND	0.0017		mg/m <sup>3</sup>	1	12/11/2020
Dibromochloromethane	ND	0.0033		mg/m <sup>3</sup>	1	12/11/2020
Dichlorodifluoromethane	0.0043	0.0019		mg/m <sup>3</sup>	1	12/11/2020
Ethylbenzene	0.0033	0.0017		mg/m <sup>3</sup>	1	12/11/2020
Isopropyl Alcohol	0.15	0.0048		mg/m <sup>3</sup>	1	12/11/2020
m,p-Xylene	0.014	0.0033		mg/m <sup>3</sup>	1	12/11/2020
Methyl tert-butyl ether	ND	0.0013		mg/m <sup>3</sup>	1	12/11/2020
Methylene chloride	ND	0.013		mg/m <sup>3</sup>	1	12/11/2020
Naphthalene	0.0040	0.0019		mg/m <sup>3</sup>	1	12/11/2020
o-Xylene	0.0056	0.0017		mg/m <sup>3</sup>	1	12/11/2020
Styrene	ND	0.0017		mg/m <sup>3</sup>	1	12/11/2020
Tetrachloroethene	0.17	0.0027		mg/m <sup>3</sup>	1	12/11/2020
Toluene	0.011	0.0015		mg/m <sup>3</sup>	1	12/11/2020
trans-1,2-Dichloroethene	ND	0.0015		mg/m <sup>3</sup>	1	12/11/2020
trans-1,3-Dichloropropene	ND	0.0017		mg/m <sup>3</sup>	1	12/11/2020
Trichloroethene	ND	0.0021		mg/m <sup>3</sup>	1	12/11/2020

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 14, 2020

**ANALYTICAL RESULTS**

Date Printed: December 14, 2020

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV5-2/4

Work Order: 20120307 Revision 0

Collection Date: 12/8/2020 12:45:00 PM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 20120307-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: <b>12/9/2020</b>		Analyst: <b>MAS</b>
Trichlorofluoromethane	ND	0.0021		mg/m <sup>3</sup>	1	12/11/2020
Vinyl acetate	ND	0.013		mg/m <sup>3</sup>	1	12/11/2020
Vinyl chloride	ND	0.00096		mg/m <sup>3</sup>	1	12/11/2020
Xylenes, Total	0.019	0.0050		mg/m <sup>3</sup>	1	12/11/2020

**Qualifiers:**

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 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
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Date Reported: December 14, 2020

**ANALYTICAL RESULTS**

Date Printed: December 14, 2020

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV6-2/4

Work Order: 20120307 Revision 0

Collection Date: 12/8/2020 12:02:00 PM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 20120307-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: 12/9/2020		Analyst: MAS
1,1,1-Trichloroethane	ND	0.0022		mg/m <sup>3</sup>	1	12/11/2020
1,1,2-Trichloroethane	ND	0.0022		mg/m <sup>3</sup>	1	12/11/2020
1,1-Dichloroethane	ND	0.0016		mg/m <sup>3</sup>	1	12/11/2020
1,1-Dichloroethene	ND	0.0016		mg/m <sup>3</sup>	1	12/11/2020
1,2,4-Trichlorobenzene	ND	0.0030		mg/m <sup>3</sup>	1	12/11/2020
1,2-Dibromoethane	ND	0.0030		mg/m <sup>3</sup>	1	12/11/2020
1,2-Dichlorobenzene	ND	0.0024		mg/m <sup>3</sup>	1	12/11/2020
1,2-Dichloroethane	ND	0.0016		mg/m <sup>3</sup>	1	12/11/2020
1,2-Dichloropropane	ND	0.0018		mg/m <sup>3</sup>	1	12/11/2020
1,4-Dichlorobenzene	ND	0.0024		mg/m <sup>3</sup>	1	12/11/2020
1,4-Dioxane	ND	0.0036		mg/m <sup>3</sup>	1	12/11/2020
2-Butanone	0.0037	0.0030		mg/m <sup>3</sup>	1	12/11/2020
Acetone	0.015	0.0095	*	mg/m <sup>3</sup>	1	12/11/2020
Benzene	ND	0.0012		mg/m <sup>3</sup>	1	12/11/2020
Bromodichloromethane	ND	0.0026		mg/m <sup>3</sup>	1	12/11/2020
Bromoform	ND	0.010		mg/m <sup>3</sup>	1	12/11/2020
Bromomethane	ND	0.0038		mg/m <sup>3</sup>	1	12/11/2020
Carbon disulfide	0.0018	0.0012		mg/m <sup>3</sup>	1	12/11/2020
Carbon tetrachloride	ND	0.0026		mg/m <sup>3</sup>	1	12/11/2020
Chlorobenzene	ND	0.0018		mg/m <sup>3</sup>	1	12/11/2020
Chloroform	ND	0.0020		mg/m <sup>3</sup>	1	12/11/2020
cis-1,2-Dichloroethene	ND	0.0016		mg/m <sup>3</sup>	1	12/11/2020
cis-1,3-Dichloropropene	ND	0.0018		mg/m <sup>3</sup>	1	12/11/2020
Dibromochloromethane	ND	0.0034		mg/m <sup>3</sup>	1	12/11/2020
Dichlorodifluoromethane	0.0036	0.0020		mg/m <sup>3</sup>	1	12/11/2020
Ethylbenzene	0.0059	0.0018		mg/m <sup>3</sup>	1	12/11/2020
Isopropyl Alcohol	0.12	0.0050		mg/m <sup>3</sup>	1	12/11/2020
m,p-Xylene	0.028	0.0034		mg/m <sup>3</sup>	1	12/11/2020
Methyl tert-butyl ether	ND	0.0014		mg/m <sup>3</sup>	1	12/11/2020
Methylene chloride	ND	0.014		mg/m <sup>3</sup>	1	12/11/2020
Naphthalene	0.0038	0.0020		mg/m <sup>3</sup>	1	12/11/2020
o-Xylene	0.010	0.0018		mg/m <sup>3</sup>	1	12/11/2020
Styrene	ND	0.0018		mg/m <sup>3</sup>	1	12/11/2020
Tetrachloroethene	0.15	0.0028		mg/m <sup>3</sup>	1	12/11/2020
Toluene	0.023	0.0016		mg/m <sup>3</sup>	1	12/11/2020
trans-1,2-Dichloroethene	ND	0.0016		mg/m <sup>3</sup>	1	12/11/2020
trans-1,3-Dichloropropene	ND	0.0018		mg/m <sup>3</sup>	1	12/11/2020
Trichloroethene	0.0024	0.0022		mg/m <sup>3</sup>	1	12/11/2020

**Qualifiers:**  
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 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

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Date Reported: December 14, 2020

**ANALYTICAL RESULTS**

Date Printed: December 14, 2020

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV6-2/4

Work Order: 20120307 Revision 0

Collection Date: 12/8/2020 12:02:00 PM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 20120307-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Volatile Organic Compounds in Air by GC/MS		TO-15		Prep Date: 12/9/2020		Analyst: MAS
Trichlorofluoromethane	ND	0.0022		mg/m <sup>3</sup>	1	12/11/2020
Vinyl acetate	ND	0.014		mg/m <sup>3</sup>	1	12/11/2020
Vinyl chloride	ND	0.00099		mg/m <sup>3</sup>	1	12/11/2020
Xylenes, Total	0.039	0.0052		mg/m <sup>3</sup>	1	12/11/2020

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
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 HT - Sample received past holding time  
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RL - Reporting / Quantitation Limit for the analysis  
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Date Reported: December 14, 2020

**ANALYTICAL RESULTS**

Date Printed: December 14, 2020

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV7-2/4

Work Order: 20120307 Revision 0

Collection Date: 12/8/2020 10:45:00 AM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 20120307-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		<b>Prep Date: 12/9/2020</b>		<b>Analyst: MAS</b>
1,1,1-Trichloroethane	ND	0.0017		mg/m <sup>3</sup>	1	12/11/2020
1,1,2-Trichloroethane	ND	0.0017		mg/m <sup>3</sup>	1	12/11/2020
1,1-Dichloroethane	ND	0.0013		mg/m <sup>3</sup>	1	12/11/2020
1,1-Dichloroethene	ND	0.0013		mg/m <sup>3</sup>	1	12/11/2020
1,2,4-Trichlorobenzene	ND	0.0023		mg/m <sup>3</sup>	1	12/11/2020
1,2-Dibromoethane	ND	0.0023		mg/m <sup>3</sup>	1	12/11/2020
1,2-Dichlorobenzene	ND	0.0019		mg/m <sup>3</sup>	1	12/11/2020
1,2-Dichloroethane	ND	0.0013		mg/m <sup>3</sup>	1	12/11/2020
1,2-Dichloropropane	ND	0.0014		mg/m <sup>3</sup>	1	12/11/2020
1,4-Dichlorobenzene	ND	0.0019		mg/m <sup>3</sup>	1	12/11/2020
1,4-Dioxane	ND	0.0028		mg/m <sup>3</sup>	1	12/11/2020
2-Butanone	ND	0.0023		mg/m <sup>3</sup>	1	12/11/2020
Acetone	0.0092	0.0075	*	mg/m <sup>3</sup>	1	12/11/2020
Benzene	ND	0.00094		mg/m <sup>3</sup>	1	12/11/2020
Bromodichloromethane	0.0060	0.0020		mg/m <sup>3</sup>	1	12/11/2020
Bromoform	ND	0.0081		mg/m <sup>3</sup>	1	12/11/2020
Bromomethane	ND	0.0030		mg/m <sup>3</sup>	1	12/11/2020
Carbon disulfide	ND	0.00098		mg/m <sup>3</sup>	1	12/11/2020
Carbon tetrachloride	ND	0.0020		mg/m <sup>3</sup>	1	12/11/2020
Chlorobenzene	ND	0.0014		mg/m <sup>3</sup>	1	12/11/2020
Chloroform	0.0055	0.0016		mg/m <sup>3</sup>	1	12/11/2020
cis-1,2-Dichloroethene	0.0066	0.0013		mg/m <sup>3</sup>	1	12/11/2020
cis-1,3-Dichloropropene	ND	0.0014		mg/m <sup>3</sup>	1	12/11/2020
Dibromochloromethane	ND	0.0027		mg/m <sup>3</sup>	1	12/11/2020
Dichlorodifluoromethane	0.0043	0.0016		mg/m <sup>3</sup>	1	12/11/2020
Ethylbenzene	ND	0.0014		mg/m <sup>3</sup>	1	12/11/2020
Isopropyl Alcohol	0.069	0.0039		mg/m <sup>3</sup>	1	12/11/2020
m,p-Xylene	ND	0.0027		mg/m <sup>3</sup>	1	12/11/2020
Methyl tert-butyl ether	ND	0.0011		mg/m <sup>3</sup>	1	12/11/2020
Methylene chloride	ND	0.011		mg/m <sup>3</sup>	1	12/11/2020
Naphthalene	0.0024	0.0016		mg/m <sup>3</sup>	1	12/11/2020
o-Xylene	ND	0.0014		mg/m <sup>3</sup>	1	12/11/2020
Styrene	ND	0.0014		mg/m <sup>3</sup>	1	12/11/2020
Tetrachloroethene	9.3	0.055		mg/m <sup>3</sup>	25	12/12/2020
Toluene	0.0015	0.0013		mg/m <sup>3</sup>	1	12/11/2020
trans-1,2-Dichloroethene	ND	0.0013		mg/m <sup>3</sup>	1	12/11/2020
trans-1,3-Dichloropropene	ND	0.0014		mg/m <sup>3</sup>	1	12/11/2020
Trichloroethene	0.19	0.0017		mg/m <sup>3</sup>	1	12/11/2020

**Qualifiers:**  
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 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Date Reported: December 14, 2020

**ANALYTICAL RESULTS**

Date Printed: December 14, 2020

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV7-2/4

Work Order: 20120307 Revision 0

Collection Date: 12/8/2020 10:45:00 AM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 20120307-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Volatile Organic Compounds in Air by GC/MS		TO-15		Prep Date: 12/9/2020		Analyst: MAS
Trichlorofluoromethane	ND	0.0017		mg/m <sup>3</sup>	1	12/11/2020
Vinyl acetate	ND	0.011		mg/m <sup>3</sup>	1	12/11/2020
Vinyl chloride	ND	0.00078		mg/m <sup>3</sup>	1	12/11/2020
Xylenes, Total	ND	0.0041		mg/m <sup>3</sup>	1	12/11/2020

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 14, 2020

**ANALYTICAL RESULTS**

Date Printed: December 14, 2020

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV2-2/4D

Work Order: 20120307 Revision 0

Collection Date: 12/8/2020 1:15:00 PM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 20120307-008

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: 12/9/2020		Analyst: MAS
1,1,1-Trichloroethane	ND	0.0024		mg/m <sup>3</sup>	1	12/12/2020
1,1,2-Trichloroethane	ND	0.0024		mg/m <sup>3</sup>	1	12/12/2020
1,1-Dichloroethane	ND	0.0017		mg/m <sup>3</sup>	1	12/12/2020
1,1-Dichloroethene	ND	0.0017		mg/m <sup>3</sup>	1	12/12/2020
1,2,4-Trichlorobenzene	ND	0.0033		mg/m <sup>3</sup>	1	12/12/2020
1,2-Dibromoethane	ND	0.0033		mg/m <sup>3</sup>	1	12/12/2020
1,2-Dichlorobenzene	ND	0.0026		mg/m <sup>3</sup>	1	12/12/2020
1,2-Dichloroethane	ND	0.0017		mg/m <sup>3</sup>	1	12/12/2020
1,2-Dichloropropane	ND	0.0020		mg/m <sup>3</sup>	1	12/12/2020
1,4-Dichlorobenzene	ND	0.0026		mg/m <sup>3</sup>	1	12/12/2020
1,4-Dioxane	ND	0.0039		mg/m <sup>3</sup>	1	12/12/2020
2-Butanone	ND	0.0033		mg/m <sup>3</sup>	1	12/12/2020
Acetone	0.013	0.010	*	mg/m <sup>3</sup>	1	12/12/2020
Benzene	ND	0.0013		mg/m <sup>3</sup>	1	12/12/2020
Bromodichloromethane	ND	0.0028		mg/m <sup>3</sup>	1	12/12/2020
Bromoform	ND	0.011		mg/m <sup>3</sup>	1	12/12/2020
Bromomethane	ND	0.0041		mg/m <sup>3</sup>	1	12/12/2020
Carbon disulfide	ND	0.0014		mg/m <sup>3</sup>	1	12/12/2020
Carbon tetrachloride	ND	0.0028		mg/m <sup>3</sup>	1	12/12/2020
Chlorobenzene	ND	0.0020		mg/m <sup>3</sup>	1	12/12/2020
Chloroform	ND	0.0022		mg/m <sup>3</sup>	1	12/12/2020
cis-1,2-Dichloroethene	ND	0.0017		mg/m <sup>3</sup>	1	12/12/2020
cis-1,3-Dichloropropene	ND	0.0020		mg/m <sup>3</sup>	1	12/12/2020
Dibromochloromethane	ND	0.0037		mg/m <sup>3</sup>	1	12/12/2020
Dichlorodifluoromethane	0.0042	0.0022		mg/m <sup>3</sup>	1	12/12/2020
Ethylbenzene	0.0045	0.0020		mg/m <sup>3</sup>	1	12/12/2020
Isopropyl Alcohol	0.045	0.0054		mg/m <sup>3</sup>	1	12/12/2020
m,p-Xylene	0.021	0.0037		mg/m <sup>3</sup>	1	12/12/2020
Methyl tert-butyl ether	ND	0.0015		mg/m <sup>3</sup>	1	12/12/2020
Methylene chloride	ND	0.015		mg/m <sup>3</sup>	1	12/12/2020
Naphthalene	0.0036	0.0022		mg/m <sup>3</sup>	1	12/12/2020
o-Xylene	0.0077	0.0020		mg/m <sup>3</sup>	1	12/12/2020
Styrene	ND	0.0020		mg/m <sup>3</sup>	1	12/12/2020
Tetrachloroethene	0.079	0.0030		mg/m <sup>3</sup>	1	12/12/2020
Toluene	0.017	0.0017		mg/m <sup>3</sup>	1	12/12/2020
trans-1,2-Dichloroethene	ND	0.0017		mg/m <sup>3</sup>	1	12/12/2020
trans-1,3-Dichloropropene	ND	0.0020		mg/m <sup>3</sup>	1	12/12/2020
Trichloroethene	ND	0.0024		mg/m <sup>3</sup>	1	12/12/2020

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 14, 2020

**ANALYTICAL RESULTS**

Date Printed: December 14, 2020

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV2-2/4D

Work Order: 20120307 Revision 0

Collection Date: 12/8/2020 1:15:00 PM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 20120307-008

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Volatile Organic Compounds in Air by GC/MS		TO-15		Prep Date: 12/9/2020		Analyst: MAS
Trichlorofluoromethane	ND	0.0024		mg/m <sup>3</sup>	1	12/12/2020
Vinyl acetate	ND	0.015		mg/m <sup>3</sup>	1	12/12/2020
Vinyl chloride	ND	0.0011		mg/m <sup>3</sup>	1	12/12/2020
Xylenes, Total	0.029	0.0056		mg/m <sup>3</sup>	1	12/12/2020

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded



**Sample Receipt Checklist**


Client Name **HYDRODYNAMICS**

Date and Time Received: **12/9/2020 3:25:00 PM**

Work Order Number **20120307**

Received by: **JTM**

Checklist completed by:  12/9/20  
Signature Date

Reviewed by:  12/10/20  
Initials Date

Matrix: Carrier name: STAT Analysis

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels/containers? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Container or Temp Blank temperature in compliance? Yes  No  Temperature Ambient °C
- Water - VOA vials have zero headspace?  No VOA vials submitted  Yes  No
- Water - Samples pH checked? Yes  No  Checked by: \_\_\_\_\_
- Water - Samples properly preserved? Yes  No  pH Adjusted? \_\_\_\_\_

Any No response must be detailed in the comments section below.

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Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Client / Person contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Response: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



**STAT** Analysis Corporation

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April 01, 2021

Hydrodynamics Consultants, Inc.  
5403 Patton Drive  
Lisle, IL 60532

Telephone: (630) 724-0098  
Fax: (800) 881-2051

Analytical Report for STAT Work Order: 21030969 Revision 0

RE: Westwood Cleaners, 8731 West North Ave., Wauwatosa, WI 53226

Dear Hydrodynamics Consultants, Inc.:

STAT Analysis received 11 samples for the referenced project on 3/29/2021 3:30:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAP standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Sebastian Slazyk  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples as received and tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

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**Client:** Hydrodynamics Consultants, Inc.**Project:** Westwood Cleaners, 8731 West North Ave., Wauwatos**Work Order Sample Summary****Work Order:** 21030969 Revision 0

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Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
21030969-001A	MW 1-3/4		3/26/2021 11:11:00 AM	3/29/2021
21030969-002A	MW 2-3/4		3/26/2021 11:18:00 AM	3/29/2021
21030969-003A	MW 3-3/4		3/26/2021 11:25:00 AM	3/29/2021
21030969-004A	MW 4-3/4		3/26/2021 11:32:00 AM	3/29/2021
21030969-005A	MW 5-3/4		3/26/2021 11:39:00 AM	3/29/2021
21030969-006A	MW 6-3/4		3/26/2021 11:47:00 AM	3/29/2021
21030969-007A	MW 7-3/4		3/26/2021 11:55:00 AM	3/29/2021
21030969-008A	MW 7-3/4-D		3/26/2021 12:02:00 PM	3/29/2021
21030969-009A	MW 8-3/4		3/26/2021 12:10:00 PM	3/29/2021
21030969-010A	MW 9-3/4		3/26/2021 12:18:00 PM	3/29/2021
21030969-011A	Trip Blank		3/26/2021 8:58:00 AM	3/29/2021

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: April 01, 2021

**ANALYTICAL RESULTS**

Date Printed: April 01, 2021

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: MW 1-3/4

Work Order: 21030969 Revision 0

Collection Date: 3/26/2021 11:11:00 AM

Project: Westwood Cleaners, 8731 West North Ave., Wauw

Matrix: Aqueous

Lab ID: 21030969-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260B (SW5030B)</b>		Prep Date:		Analyst: <b>CBG</b>	
Acetone	ND	0.020		mg/L	1	3/31/2021
Benzene	ND	0.0050		mg/L	1	3/31/2021
Bromodichloromethane	ND	0.0050		mg/L	1	3/31/2021
Bromoform	ND	0.0010		mg/L	1	3/31/2021
Bromomethane	ND	0.0050		mg/L	1	3/31/2021
2-Butanone	ND	0.020		mg/L	1	3/31/2021
Carbon disulfide	ND	0.010		mg/L	1	3/31/2021
Carbon tetrachloride	ND	0.0050		mg/L	1	3/31/2021
Chlorobenzene	ND	0.0050		mg/L	1	3/31/2021
Chloroethane	ND	0.010		mg/L	1	3/31/2021
Chloroform	ND	0.0010		mg/L	1	3/31/2021
Chloromethane	ND	0.010		mg/L	1	3/31/2021
Dibromochloromethane	ND	0.0050		mg/L	1	3/31/2021
1,1-Dichloroethane	ND	0.0050		mg/L	1	3/31/2021
1,2-Dichloroethane	ND	0.0050		mg/L	1	3/31/2021
1,1-Dichloroethene	ND	0.0050		mg/L	1	3/31/2021
cis-1,2-Dichloroethene	ND	0.0050		mg/L	1	3/31/2021
trans-1,2-Dichloroethene	ND	0.0050		mg/L	1	3/31/2021
1,2-Dichloropropane	ND	0.0050		mg/L	1	3/31/2021
cis-1,3-Dichloropropene	ND	0.0010		mg/L	1	3/31/2021
trans-1,3-Dichloropropene	ND	0.0010		mg/L	1	3/31/2021
Ethylbenzene	ND	0.0050		mg/L	1	3/31/2021
2-Hexanone	ND	0.020		mg/L	1	3/31/2021
4-Methyl-2-pentanone	ND	0.020		mg/L	1	3/31/2021
Methylene chloride	ND	0.0050		mg/L	1	3/31/2021
Methyl tert-butyl ether	ND	0.0050		mg/L	1	3/31/2021
Styrene	ND	0.0050		mg/L	1	3/31/2021
1,1,1,2-Tetrachloroethane	ND	0.0050		mg/L	1	3/31/2021
Tetrachloroethene	ND	0.0050		mg/L	1	3/31/2021
Toluene	ND	0.0050		mg/L	1	3/31/2021
1,1,1-Trichloroethane	ND	0.0050		mg/L	1	3/31/2021
1,1,2-Trichloroethane	ND	0.0050		mg/L	1	3/31/2021
Trichloroethene	ND	0.0050		mg/L	1	3/31/2021
Vinyl chloride	ND	0.0020		mg/L	1	3/31/2021
Xylenes, Total	ND	0.015		mg/L	1	3/31/2021

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: April 01, 2021

**ANALYTICAL RESULTS**

Date Printed: April 01, 2021

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: MW 2-3/4

Work Order: 21030969 Revision 0

Collection Date: 3/26/2021 11:18:00 AM

Project: Westwood Cleaners, 8731 West North Ave., Wauw

Matrix: Aqueous

Lab ID: 21030969-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260B (SW5030B)</b>		Prep Date:		Analyst: <b>CBG</b>	
Acetone	ND	0.020		mg/L	1	3/31/2021
Benzene	ND	0.0050		mg/L	1	3/31/2021
Bromodichloromethane	ND	0.0050		mg/L	1	3/31/2021
Bromoform	ND	0.0010		mg/L	1	3/31/2021
Bromomethane	ND	0.0050		mg/L	1	3/31/2021
2-Butanone	ND	0.020		mg/L	1	3/31/2021
Carbon disulfide	ND	0.010		mg/L	1	3/31/2021
Carbon tetrachloride	ND	0.0050		mg/L	1	3/31/2021
Chlorobenzene	ND	0.0050		mg/L	1	3/31/2021
Chloroethane	ND	0.010		mg/L	1	3/31/2021
Chloroform	ND	0.0010		mg/L	1	3/31/2021
Chloromethane	ND	0.010		mg/L	1	3/31/2021
Dibromochloromethane	ND	0.0050		mg/L	1	3/31/2021
1,1-Dichloroethane	ND	0.0050		mg/L	1	3/31/2021
1,2-Dichloroethane	ND	0.0050		mg/L	1	3/31/2021
1,1-Dichloroethene	ND	0.0050		mg/L	1	3/31/2021
cis-1,2-Dichloroethene	0.0052	0.0050		mg/L	1	3/31/2021
trans-1,2-Dichloroethene	ND	0.0050		mg/L	1	3/31/2021
1,2-Dichloropropane	ND	0.0050		mg/L	1	3/31/2021
cis-1,3-Dichloropropene	ND	0.0010		mg/L	1	3/31/2021
trans-1,3-Dichloropropene	ND	0.0010		mg/L	1	3/31/2021
Ethylbenzene	ND	0.0050		mg/L	1	3/31/2021
2-Hexanone	ND	0.020		mg/L	1	3/31/2021
4-Methyl-2-pentanone	ND	0.020		mg/L	1	3/31/2021
Methylene chloride	ND	0.0050		mg/L	1	3/31/2021
Methyl tert-butyl ether	ND	0.0050		mg/L	1	3/31/2021
Styrene	ND	0.0050		mg/L	1	3/31/2021
1,1,1,2-Tetrachloroethane	ND	0.0050		mg/L	1	3/31/2021
Tetrachloroethene	0.073	0.0050		mg/L	1	3/31/2021
Toluene	ND	0.0050		mg/L	1	3/31/2021
1,1,1-Trichloroethane	ND	0.0050		mg/L	1	3/31/2021
1,1,2-Trichloroethane	ND	0.0050		mg/L	1	3/31/2021
Trichloroethene	0.025	0.0050		mg/L	1	3/31/2021
Vinyl chloride	ND	0.0020		mg/L	1	3/31/2021
Xylenes, Total	ND	0.015		mg/L	1	3/31/2021

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: April 01, 2021

**ANALYTICAL RESULTS**

Date Printed: April 01, 2021

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: MW 3-3/4

Work Order: 21030969 Revision 0

Collection Date: 3/26/2021 11:25:00 AM

Project: Westwood Cleaners, 8731 West North Ave., Wauw

Matrix: Aqueous

Lab ID: 21030969-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260B (SW5030B)</b>		Prep Date:		Analyst: <b>CBG</b>	
Acetone	ND	0.020		mg/L	1	3/31/2021
Benzene	ND	0.0050		mg/L	1	3/31/2021
Bromodichloromethane	ND	0.0050		mg/L	1	3/31/2021
Bromoform	ND	0.0010		mg/L	1	3/31/2021
Bromomethane	ND	0.0050		mg/L	1	3/31/2021
2-Butanone	ND	0.020		mg/L	1	3/31/2021
Carbon disulfide	ND	0.010		mg/L	1	3/31/2021
Carbon tetrachloride	ND	0.0050		mg/L	1	3/31/2021
Chlorobenzene	ND	0.0050		mg/L	1	3/31/2021
Chloroethane	ND	0.010		mg/L	1	3/31/2021
Chloroform	ND	0.0010		mg/L	1	3/31/2021
Chloromethane	ND	0.010		mg/L	1	3/31/2021
Dibromochloromethane	ND	0.0050		mg/L	1	3/31/2021
1,1-Dichloroethane	ND	0.0050		mg/L	1	3/31/2021
1,2-Dichloroethane	ND	0.0050		mg/L	1	3/31/2021
1,1-Dichloroethene	ND	0.0050		mg/L	1	3/31/2021
cis-1,2-Dichloroethene	ND	0.0050		mg/L	1	3/31/2021
trans-1,2-Dichloroethene	ND	0.0050		mg/L	1	3/31/2021
1,2-Dichloropropane	ND	0.0050		mg/L	1	3/31/2021
cis-1,3-Dichloropropene	ND	0.0010		mg/L	1	3/31/2021
trans-1,3-Dichloropropene	ND	0.0010		mg/L	1	3/31/2021
Ethylbenzene	ND	0.0050		mg/L	1	3/31/2021
2-Hexanone	ND	0.020		mg/L	1	3/31/2021
4-Methyl-2-pentanone	ND	0.020		mg/L	1	3/31/2021
Methylene chloride	ND	0.0050		mg/L	1	3/31/2021
Methyl tert-butyl ether	ND	0.0050		mg/L	1	3/31/2021
Styrene	ND	0.0050		mg/L	1	3/31/2021
1,1,2,2-Tetrachloroethane	ND	0.0050		mg/L	1	3/31/2021
Tetrachloroethene	ND	0.0050		mg/L	1	3/31/2021
Toluene	ND	0.0050		mg/L	1	3/31/2021
1,1,1-Trichloroethane	ND	0.0050		mg/L	1	3/31/2021
1,1,2-Trichloroethane	ND	0.0050		mg/L	1	3/31/2021
Trichloroethene	ND	0.0050		mg/L	1	3/31/2021
Vinyl chloride	ND	0.0020		mg/L	1	3/31/2021
Xylenes, Total	ND	0.015		mg/L	1	3/31/2021

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: April 01, 2021

**ANALYTICAL RESULTS**

Date Printed: April 01, 2021

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: MW 4-3/4

Work Order: 21030969 Revision 0

Collection Date: 3/26/2021 11:32:00 AM

Project: Westwood Cleaners, 8731 West North Ave., Wauw

Matrix: Aqueous

Lab ID: 21030969-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260B (SW5030B)</b>		Prep Date:		Analyst: <b>CBG</b>	
Acetone	ND	0.020		mg/L	1	3/31/2021
Benzene	ND	0.0050		mg/L	1	3/31/2021
Bromodichloromethane	ND	0.0050		mg/L	1	3/31/2021
Bromoform	ND	0.0010		mg/L	1	3/31/2021
Bromomethane	ND	0.0050		mg/L	1	3/31/2021
2-Butanone	ND	0.020		mg/L	1	3/31/2021
Carbon disulfide	ND	0.010		mg/L	1	3/31/2021
Carbon tetrachloride	ND	0.0050		mg/L	1	3/31/2021
Chlorobenzene	ND	0.0050		mg/L	1	3/31/2021
Chloroethane	ND	0.010		mg/L	1	3/31/2021
Chloroform	ND	0.0010		mg/L	1	3/31/2021
Chloromethane	ND	0.010		mg/L	1	3/31/2021
Dibromochloromethane	ND	0.0050		mg/L	1	3/31/2021
1,1-Dichloroethane	ND	0.0050		mg/L	1	3/31/2021
1,2-Dichloroethane	ND	0.0050		mg/L	1	3/31/2021
1,1-Dichloroethene	ND	0.0050		mg/L	1	3/31/2021
cis-1,2-Dichloroethene	ND	0.0050		mg/L	1	3/31/2021
trans-1,2-Dichloroethene	ND	0.0050		mg/L	1	3/31/2021
1,2-Dichloropropane	ND	0.0050		mg/L	1	3/31/2021
cis-1,3-Dichloropropene	ND	0.0010		mg/L	1	3/31/2021
trans-1,3-Dichloropropene	ND	0.0010		mg/L	1	3/31/2021
Ethylbenzene	ND	0.0050		mg/L	1	3/31/2021
2-Hexanone	ND	0.020		mg/L	1	3/31/2021
4-Methyl-2-pentanone	ND	0.020		mg/L	1	3/31/2021
Methylene chloride	ND	0.0050		mg/L	1	3/31/2021
Methyl tert-butyl ether	ND	0.0050		mg/L	1	3/31/2021
Styrene	ND	0.0050		mg/L	1	3/31/2021
1,1,1,2-Tetrachloroethane	ND	0.0050		mg/L	1	3/31/2021
Tetrachloroethene	ND	0.0050		mg/L	1	3/31/2021
Toluene	ND	0.0050		mg/L	1	3/31/2021
1,1,1-Trichloroethane	ND	0.0050		mg/L	1	3/31/2021
1,1,2-Trichloroethane	ND	0.0050		mg/L	1	3/31/2021
Trichloroethene	ND	0.0050		mg/L	1	3/31/2021
Vinyl chloride	ND	0.0020		mg/L	1	3/31/2021
Xylenes, Total	ND	0.015		mg/L	1	3/31/2021

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: April 01, 2021

**ANALYTICAL RESULTS**

Date Printed: April 01, 2021

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: MW 5-3/4

Work Order: 21030969 Revision 0

Collection Date: 3/26/2021 11:39:00 AM

Project: Westwood Cleaners, 8731 West North Ave., Wauw

Matrix: Aqueous

Lab ID: 21030969-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260B (SW5030B)</b>			Prep Date:		Analyst: <b>CBG</b>
Acetone	ND	0.10		mg/L	10	3/30/2021
Benzene	ND	0.0050		mg/L	10	3/30/2021
Bromodichloromethane	ND	0.010		mg/L	10	3/30/2021
Bromoform	ND	0.010		mg/L	10	3/30/2021
Bromomethane	ND	0.0050		mg/L	10	3/30/2021
2-Butanone	ND	0.050		mg/L	10	3/30/2021
Carbon disulfide	ND	0.050		mg/L	10	3/30/2021
Carbon tetrachloride	ND	0.0050		mg/L	10	3/30/2021
Chlorobenzene	ND	0.0050		mg/L	10	3/30/2021
Chloroethane	ND	0.0050		mg/L	10	3/30/2021
Chloroform	ND	0.010		mg/L	10	3/30/2021
Chloromethane	ND	0.0050		mg/L	10	3/30/2021
Dibromochloromethane	ND	0.010		mg/L	10	3/30/2021
1,1-Dichloroethane	ND	0.0050		mg/L	10	3/30/2021
1,2-Dichloroethane	ND	0.0050		mg/L	10	3/30/2021
1,1-Dichloroethene	ND	0.0050		mg/L	10	3/30/2021
cis-1,2-Dichloroethene	0.017	0.010		mg/L	10	3/30/2021
trans-1,2-Dichloroethene	ND	0.0050		mg/L	10	3/30/2021
1,2-Dichloropropane	ND	0.0050		mg/L	10	3/30/2021
cis-1,3-Dichloropropene	ND	0.0050		mg/L	10	3/30/2021
trans-1,3-Dichloropropene	ND	0.0050		mg/L	10	3/30/2021
Ethylbenzene	ND	0.0050		mg/L	10	3/30/2021
2-Hexanone	ND	0.010		mg/L	10	3/30/2021
4-Methyl-2-pentanone	ND	0.010		mg/L	10	3/30/2021
Methylene chloride	ND	0.050		mg/L	10	3/30/2021
Methyl tert-butyl ether	ND	0.0050		mg/L	10	3/30/2021
Styrene	ND	0.0050		mg/L	10	3/30/2021
1,1,1,2-Tetrachloroethane	ND	0.0050		mg/L	10	3/30/2021
Tetrachloroethene	1.7	0.0050		mg/L	10	3/30/2021
Toluene	ND	0.0050		mg/L	10	3/30/2021
1,1,1-Trichloroethane	ND	0.0050		mg/L	10	3/30/2021
1,1,2-Trichloroethane	ND	0.0050		mg/L	10	3/30/2021
Trichloroethene	0.085	0.0050		mg/L	10	3/30/2021
Vinyl chloride	ND	0.0050		mg/L	10	3/30/2021
Xylenes, Total	ND	0.015		mg/L	10	3/30/2021

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: April 01, 2021

**ANALYTICAL RESULTS**

Date Printed: April 01, 2021

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: MW 6-3/4

Work Order: 21030969 Revision 0

Collection Date: 3/26/2021 11:47:00 AM

Project: Westwood Cleaners, 8731 West North Ave., Wauw

Matrix: Aqueous

Lab ID: 21030969-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260B (SW5030B)</b>			Prep Date:		Analyst: <b>CBG</b>
Acetone	ND	0.10		mg/L	10	3/30/2021
Benzene	ND	0.0050		mg/L	10	3/30/2021
Bromodichloromethane	ND	0.010		mg/L	10	3/30/2021
Bromoform	ND	0.010		mg/L	10	3/30/2021
Bromomethane	ND	0.0050		mg/L	10	3/30/2021
2-Butanone	ND	0.050		mg/L	10	3/30/2021
Carbon disulfide	ND	0.050		mg/L	10	3/30/2021
Carbon tetrachloride	ND	0.0050		mg/L	10	3/30/2021
Chlorobenzene	ND	0.0050		mg/L	10	3/30/2021
Chloroethane	ND	0.0050		mg/L	10	3/30/2021
Chloroform	ND	0.010		mg/L	10	3/30/2021
Chloromethane	ND	0.0050		mg/L	10	3/30/2021
Dibromochloromethane	ND	0.010		mg/L	10	3/30/2021
1,1-Dichloroethane	ND	0.0050		mg/L	10	3/30/2021
1,2-Dichloroethane	ND	0.0050		mg/L	10	3/30/2021
1,1-Dichloroethene	ND	0.0050		mg/L	10	3/30/2021
cis-1,2-Dichloroethene	ND	0.010		mg/L	10	3/30/2021
trans-1,2-Dichloroethene	ND	0.0050		mg/L	10	3/30/2021
1,2-Dichloropropane	ND	0.0050		mg/L	10	3/30/2021
cis-1,3-Dichloropropene	ND	0.0050		mg/L	10	3/30/2021
trans-1,3-Dichloropropene	ND	0.0050		mg/L	10	3/30/2021
Ethylbenzene	ND	0.0050		mg/L	10	3/30/2021
2-Hexanone	ND	0.010		mg/L	10	3/30/2021
4-Methyl-2-pentanone	ND	0.010		mg/L	10	3/30/2021
Methylene chloride	ND	0.050		mg/L	10	3/30/2021
Methyl tert-butyl ether	ND	0.0050		mg/L	10	3/30/2021
Styrene	ND	0.0050		mg/L	10	3/30/2021
1,1,1,2-Tetrachloroethane	ND	0.0050		mg/L	10	3/30/2021
Tetrachloroethene	0.69	0.0050		mg/L	10	3/30/2021
Toluene	ND	0.0050		mg/L	10	3/30/2021
1,1,1-Trichloroethane	ND	0.0050		mg/L	10	3/30/2021
1,1,2-Trichloroethane	ND	0.0050		mg/L	10	3/30/2021
Trichloroethene	0.048	0.0050		mg/L	10	3/30/2021
Vinyl chloride	ND	0.0050		mg/L	10	3/30/2021
Xylenes, Total	ND	0.015		mg/L	10	3/30/2021

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded



**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: April 01, 2021

**ANALYTICAL RESULTS**

Date Printed: April 01, 2021

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: MW 7-3/4

Work Order: 21030969 Revision 0

Collection Date: 3/26/2021 11:55:00 AM

Project: Westwood Cleaners, 8731 West North Ave., Wauw

Matrix: Aqueous

Lab ID: 21030969-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260B (SW5030B)</b>			Prep Date:		Analyst: <b>CBG</b>
Acetone	ND	0.020		mg/L	1	3/31/2021
Benzene	ND	0.0050		mg/L	1	3/31/2021
Bromodichloromethane	ND	0.0050		mg/L	1	3/31/2021
Bromoform	ND	0.0010		mg/L	1	3/31/2021
Bromomethane	ND	0.0050		mg/L	1	3/31/2021
2-Butanone	ND	0.020		mg/L	1	3/31/2021
Carbon disulfide	ND	0.010		mg/L	1	3/31/2021
Carbon tetrachloride	ND	0.0050		mg/L	1	3/31/2021
Chlorobenzene	ND	0.0050		mg/L	1	3/31/2021
Chloroethane	ND	0.010		mg/L	1	3/31/2021
Chloroform	ND	0.0010		mg/L	1	3/31/2021
Chloromethane	ND	0.010		mg/L	1	3/31/2021
Dibromochloromethane	ND	0.0050		mg/L	1	3/31/2021
1,1-Dichloroethane	ND	0.0050		mg/L	1	3/31/2021
1,2-Dichloroethane	ND	0.0050		mg/L	1	3/31/2021
1,1-Dichloroethene	ND	0.0050		mg/L	1	3/31/2021
cis-1,2-Dichloroethene	ND	0.0050		mg/L	1	3/31/2021
trans-1,2-Dichloroethene	ND	0.0050		mg/L	1	3/31/2021
1,2-Dichloropropane	ND	0.0050		mg/L	1	3/31/2021
cis-1,3-Dichloropropene	ND	0.0010		mg/L	1	3/31/2021
trans-1,3-Dichloropropene	ND	0.0010		mg/L	1	3/31/2021
Ethylbenzene	ND	0.0050		mg/L	1	3/31/2021
2-Hexanone	ND	0.020		mg/L	1	3/31/2021
4-Methyl-2-pentanone	ND	0.020		mg/L	1	3/31/2021
Methylene chloride	ND	0.0050		mg/L	1	3/31/2021
Methyl tert-butyl ether	ND	0.0050		mg/L	1	3/31/2021
Styrene	ND	0.0050		mg/L	1	3/31/2021
1,1,2,2-Tetrachloroethane	ND	0.0050		mg/L	1	3/31/2021
Tetrachloroethene	ND	0.0050		mg/L	1	3/31/2021
Toluene	ND	0.0050		mg/L	1	3/31/2021
1,1,1-Trichloroethane	ND	0.0050		mg/L	1	3/31/2021
1,1,2-Trichloroethane	ND	0.0050		mg/L	1	3/31/2021
Trichloroethene	ND	0.0050		mg/L	1	3/31/2021
Vinyl chloride	ND	0.0020		mg/L	1	3/31/2021
Xylenes, Total	ND	0.015		mg/L	1	3/31/2021

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: April 01, 2021

Date Printed: April 01, 2021

**ANALYTICAL RESULTS**

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: MW 7-3/4-D

Work Order: 21030969 Revision 0

Collection Date: 3/26/2021 12:02:00 PM

Project: Westwood Cleaners, 8731 West North Ave., Wauw

Matrix: Aqueous

Lab ID: 21030969-008

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260B (SW5030B)</b>		Prep Date:		Analyst: <b>CBG</b>	
Acetone	ND	0.020		mg/L	1	3/31/2021
Benzene	ND	0.0050		mg/L	1	3/31/2021
Bromodichloromethane	ND	0.0050		mg/L	1	3/31/2021
Bromoform	ND	0.0010		mg/L	1	3/31/2021
Bromomethane	ND	0.0050		mg/L	1	3/31/2021
2-Butanone	ND	0.020		mg/L	1	3/31/2021
Carbon disulfide	ND	0.010		mg/L	1	3/31/2021
Carbon tetrachloride	ND	0.0050		mg/L	1	3/31/2021
Chlorobenzene	ND	0.0050		mg/L	1	3/31/2021
Chloroethane	ND	0.010		mg/L	1	3/31/2021
Chloroform	ND	0.0010		mg/L	1	3/31/2021
Chloromethane	ND	0.010		mg/L	1	3/31/2021
Dibromochloromethane	ND	0.0050		mg/L	1	3/31/2021
1,1-Dichloroethane	ND	0.0050		mg/L	1	3/31/2021
1,2-Dichloroethane	ND	0.0050		mg/L	1	3/31/2021
1,1-Dichloroethene	ND	0.0050		mg/L	1	3/31/2021
cis-1,2-Dichloroethene	ND	0.0050		mg/L	1	3/31/2021
trans-1,2-Dichloroethene	ND	0.0050		mg/L	1	3/31/2021
1,2-Dichloropropane	ND	0.0050		mg/L	1	3/31/2021
cis-1,3-Dichloropropene	ND	0.0010		mg/L	1	3/31/2021
trans-1,3-Dichloropropene	ND	0.0010		mg/L	1	3/31/2021
Ethylbenzene	ND	0.0050		mg/L	1	3/31/2021
2-Hexanone	ND	0.020		mg/L	1	3/31/2021
4-Methyl-2-pentanone	ND	0.020		mg/L	1	3/31/2021
Methylene chloride	ND	0.0050		mg/L	1	3/31/2021
Methyl tert-butyl ether	ND	0.0050		mg/L	1	3/31/2021
Styrene	ND	0.0050		mg/L	1	3/31/2021
1,1,2,2-Tetrachloroethane	ND	0.0050		mg/L	1	3/31/2021
Tetrachloroethene	ND	0.0050		mg/L	1	3/31/2021
Toluene	ND	0.0050		mg/L	1	3/31/2021
1,1,1-Trichloroethane	ND	0.0050		mg/L	1	3/31/2021
1,1,2-Trichloroethane	ND	0.0050		mg/L	1	3/31/2021
Trichloroethene	ND	0.0050		mg/L	1	3/31/2021
Vinyl chloride	ND	0.0020		mg/L	1	3/31/2021
Xylenes, Total	ND	0.015		mg/L	1	3/31/2021

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: April 01, 2021

**ANALYTICAL RESULTS**

Date Printed: April 01, 2021

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: MW 8-3/4

Work Order: 21030969 Revision 0

Collection Date: 3/26/2021 12:10:00 PM

Project: Westwood Cleaners, 8731 West North Ave., Wauw

Matrix: Aqueous

Lab ID: 21030969-009

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260B (SW5030B)</b>		Prep Date:		Analyst: <b>CBG</b>	
Acetone	ND	0.020		mg/L	1	3/31/2021
Benzene	ND	0.0050		mg/L	1	3/31/2021
Bromodichloromethane	ND	0.0050		mg/L	1	3/31/2021
Bromoform	ND	0.0010		mg/L	1	3/31/2021
Bromomethane	ND	0.0050		mg/L	1	3/31/2021
2-Butanone	ND	0.020		mg/L	1	3/31/2021
Carbon disulfide	ND	0.010		mg/L	1	3/31/2021
Carbon tetrachloride	ND	0.0050		mg/L	1	3/31/2021
Chlorobenzene	ND	0.0050		mg/L	1	3/31/2021
Chloroethane	ND	0.010		mg/L	1	3/31/2021
Chloroform	ND	0.0010		mg/L	1	3/31/2021
Chloromethane	ND	0.010		mg/L	1	3/31/2021
Dibromochloromethane	ND	0.0050		mg/L	1	3/31/2021
1,1-Dichloroethane	ND	0.0050		mg/L	1	3/31/2021
1,2-Dichloroethane	ND	0.0050		mg/L	1	3/31/2021
1,1-Dichloroethene	ND	0.0050		mg/L	1	3/31/2021
cis-1,2-Dichloroethene	ND	0.0050		mg/L	1	3/31/2021
trans-1,2-Dichloroethene	ND	0.0050		mg/L	1	3/31/2021
1,2-Dichloropropane	ND	0.0050		mg/L	1	3/31/2021
cis-1,3-Dichloropropene	ND	0.0010		mg/L	1	3/31/2021
trans-1,3-Dichloropropene	ND	0.0010		mg/L	1	3/31/2021
Ethylbenzene	ND	0.0050		mg/L	1	3/31/2021
2-Hexanone	ND	0.020		mg/L	1	3/31/2021
4-Methyl-2-pentanone	ND	0.020		mg/L	1	3/31/2021
Methylene chloride	ND	0.0050		mg/L	1	3/31/2021
Methyl tert-butyl ether	ND	0.0050		mg/L	1	3/31/2021
Styrene	ND	0.0050		mg/L	1	3/31/2021
1,1,2,2-Tetrachloroethane	ND	0.0050		mg/L	1	3/31/2021
Tetrachloroethene	ND	0.0050		mg/L	1	3/31/2021
Toluene	ND	0.0050		mg/L	1	3/31/2021
1,1,1-Trichloroethane	ND	0.0050		mg/L	1	3/31/2021
1,1,2-Trichloroethane	ND	0.0050		mg/L	1	3/31/2021
Trichloroethene	ND	0.0050		mg/L	1	3/31/2021
Vinyl chloride	ND	0.0020		mg/L	1	3/31/2021
Xylenes, Total	ND	0.015		mg/L	1	3/31/2021

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: April 01, 2021

**ANALYTICAL RESULTS**

Date Printed: April 01, 2021

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: MW 9-3/4

Work Order: 21030969 Revision 0

Collection Date: 3/26/2021 12:18:00 PM

Project: Westwood Cleaners, 8731 West North Ave., Wauw

Matrix: Aqueous

Lab ID: 21030969-010

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260B (SW5030B)</b>		Prep Date:		Analyst: <b>CBG</b>	
Acetone	ND	0.020		mg/L	1	3/31/2021
Benzene	ND	0.0050		mg/L	1	3/31/2021
Bromodichloromethane	ND	0.0050		mg/L	1	3/31/2021
Bromoform	ND	0.0010		mg/L	1	3/31/2021
Bromomethane	ND	0.0050		mg/L	1	3/31/2021
2-Butanone	ND	0.020		mg/L	1	3/31/2021
Carbon disulfide	ND	0.010		mg/L	1	3/31/2021
Carbon tetrachloride	ND	0.0050		mg/L	1	3/31/2021
Chlorobenzene	ND	0.0050		mg/L	1	3/31/2021
Chloroethane	ND	0.010		mg/L	1	3/31/2021
Chloroform	ND	0.0010		mg/L	1	3/31/2021
Chloromethane	ND	0.010		mg/L	1	3/31/2021
Dibromochloromethane	ND	0.0050		mg/L	1	3/31/2021
1,1-Dichloroethane	ND	0.0050		mg/L	1	3/31/2021
1,2-Dichloroethane	ND	0.0050		mg/L	1	3/31/2021
1,1-Dichloroethene	ND	0.0050		mg/L	1	3/31/2021
cis-1,2-Dichloroethene	ND	0.0050		mg/L	1	3/31/2021
trans-1,2-Dichloroethene	ND	0.0050		mg/L	1	3/31/2021
1,2-Dichloropropane	ND	0.0050		mg/L	1	3/31/2021
cis-1,3-Dichloropropene	ND	0.0010		mg/L	1	3/31/2021
trans-1,3-Dichloropropene	ND	0.0010		mg/L	1	3/31/2021
Ethylbenzene	ND	0.0050		mg/L	1	3/31/2021
2-Hexanone	ND	0.020		mg/L	1	3/31/2021
4-Methyl-2-pentanone	ND	0.020		mg/L	1	3/31/2021
Methylene chloride	ND	0.0050		mg/L	1	3/31/2021
Methyl tert-butyl ether	ND	0.0050		mg/L	1	3/31/2021
Styrene	ND	0.0050		mg/L	1	3/31/2021
1,1,2,2-Tetrachloroethane	ND	0.0050		mg/L	1	3/31/2021
Tetrachloroethene	ND	0.0050		mg/L	1	3/31/2021
Toluene	ND	0.0050		mg/L	1	3/31/2021
1,1,1-Trichloroethane	ND	0.0050		mg/L	1	3/31/2021
1,1,2-Trichloroethane	ND	0.0050		mg/L	1	3/31/2021
Trichloroethene	ND	0.0050		mg/L	1	3/31/2021
Vinyl chloride	ND	0.0020		mg/L	1	3/31/2021
Xylenes, Total	ND	0.015		mg/L	1	3/31/2021

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: April 01, 2021

**ANALYTICAL RESULTS**

Date Printed: April 01, 2021

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: Trip Blank

Work Order: 21030969 Revision 0

Collection Date: 3/26/2021 8:58:00 AM

Project: Westwood Cleaners, 8731 West North Ave., Wauw

Matrix: Aqueous

Lab ID: 21030969-011

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260B (SW5030B)</b>		Prep Date:		Analyst: <b>CBG</b>	
Acetone	ND	0.020		mg/L	1	3/31/2021
Benzene	ND	0.0050		mg/L	1	3/31/2021
Bromodichloromethane	ND	0.0050		mg/L	1	3/31/2021
Bromoform	ND	0.0010		mg/L	1	3/31/2021
Bromomethane	ND	0.0050		mg/L	1	3/31/2021
2-Butanone	ND	0.020		mg/L	1	3/31/2021
Carbon disulfide	ND	0.010		mg/L	1	3/31/2021
Carbon tetrachloride	ND	0.0050		mg/L	1	3/31/2021
Chlorobenzene	ND	0.0050		mg/L	1	3/31/2021
Chloroethane	ND	0.010		mg/L	1	3/31/2021
Chloroform	ND	0.0010		mg/L	1	3/31/2021
Chloromethane	ND	0.010		mg/L	1	3/31/2021
Dibromochloromethane	ND	0.0050		mg/L	1	3/31/2021
1,1-Dichloroethane	ND	0.0050		mg/L	1	3/31/2021
1,2-Dichloroethane	ND	0.0050		mg/L	1	3/31/2021
1,1-Dichloroethene	ND	0.0050		mg/L	1	3/31/2021
cis-1,2-Dichloroethene	ND	0.0050		mg/L	1	3/31/2021
trans-1,2-Dichloroethene	ND	0.0050		mg/L	1	3/31/2021
1,2-Dichloropropane	ND	0.0050		mg/L	1	3/31/2021
cis-1,3-Dichloropropene	ND	0.0010		mg/L	1	3/31/2021
trans-1,3-Dichloropropene	ND	0.0010		mg/L	1	3/31/2021
Ethylbenzene	ND	0.0050		mg/L	1	3/31/2021
2-Hexanone	ND	0.020		mg/L	1	3/31/2021
4-Methyl-2-pentanone	ND	0.020		mg/L	1	3/31/2021
Methylene chloride	ND	0.0050		mg/L	1	3/31/2021
Methyl tert-butyl ether	ND	0.0050		mg/L	1	3/31/2021
Styrene	ND	0.0050		mg/L	1	3/31/2021
1,1,2,2-Tetrachloroethane	ND	0.0050		mg/L	1	3/31/2021
Tetrachloroethene	ND	0.0050		mg/L	1	3/31/2021
Toluene	ND	0.0050		mg/L	1	3/31/2021
1,1,1-Trichloroethane	ND	0.0050		mg/L	1	3/31/2021
1,1,2-Trichloroethane	ND	0.0050		mg/L	1	3/31/2021
Trichloroethene	ND	0.0050		mg/L	1	3/31/2021
Vinyl chloride	ND	0.0020		mg/L	1	3/31/2021
Xylenes, Total	ND	0.015		mg/L	1	3/31/2021

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded





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April 08, 2021

Hydrodynamics Consultants, Inc.  
5403 Patton Drive  
Lisle, IL 60532

Telephone: (630) 724-0098  
Fax: (800) 881-2051

Analytical Report for STAT Work Order: 21030974 Revision 0

RE: Westwood Cleaners, 8731 W. North Avenue, Wauwatosa, WI

Dear Hydrodynamics Consultants, Inc.:

STAT Analysis received 8 samples for the referenced project on 3/29/2021 3:30:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAP standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,  
  
Justice Kwateng  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples as received and tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*



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**Client:** Hydrodynamics Consultants, Inc.**Project:** Westwood Cleaners, 8731 W. North Avenue, Wauwato**Work Order Sample Summary****Work Order:** 21030974 Revision 0

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Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
21030974-001A	SV1-3/4		3/26/2021 12:25:00 PM	3/29/2021
21030974-002A	SV2-3/4		3/26/2021 12:50:00 PM	3/29/2021
21030974-003A	SV3-3/4		3/26/2021 11:15:00 AM	3/29/2021
21030974-004A	SV4-3/4		3/26/2021 11:35:00 AM	3/29/2021
21030974-005A	SV5-3/4		3/26/2021 1:20:00 PM	3/29/2021
21030974-006A	SV6-3/4		3/26/2021 11:50:00 AM	3/29/2021
21030974-007A	SV7-3/4		3/26/2021 10:35:00 AM	3/29/2021
21030974-008A	SV7-3/4D		3/26/2021 10:55:00 AM	3/29/2021

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**CLIENT:** Hydrodynamics Consultants, Inc.  
**Project:** Westwood Cleaners, 8731 W. North Avenue, Wauwatosa, W  
**Work Order:** 21030974 Revision 0

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**CASE NARRATIVE**

TO-15 results that are reported in mg/m<sup>3</sup> are calculated based on a temperature of 25°C, atmospheric pressure of 760 mm Hg, and the molecular weight of the analyte.

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Date Reported: April 08, 2021

**ANALYTICAL RESULTS**

Date Printed: April 08, 2021

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV1-3/4

Work Order: 21030974 Revision 0

Collection Date: 3/26/2021 12:25:00 PM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 21030974-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: 3/31/2021		Analyst: MAS
1,1,1-Trichloroethane	ND	0.0047		mg/m <sup>3</sup>	2	4/1/2021
1,1,2,2-Tetrachloroethane	ND	0.0060		mg/m <sup>3</sup>	2	4/1/2021
1,1,2-Trichloroethane	ND	0.0047		mg/m <sup>3</sup>	2	4/1/2021
1,1-Dichloroethane	ND	0.0035		mg/m <sup>3</sup>	2	4/1/2021
1,1-Dichloroethene	ND	0.0034		mg/m <sup>3</sup>	2	4/1/2021
1,2,4-Trichlorobenzene	ND	0.0064		mg/m <sup>3</sup>	2	4/1/2021
1,2,4-Trimethylbenzene	0.020	0.0043		mg/m <sup>3</sup>	2	4/1/2021
1,2-Dibromoethane	ND	0.0067		mg/m <sup>3</sup>	2	4/1/2021
1,2-Dichlorobenzene	ND	0.0052		mg/m <sup>3</sup>	2	4/1/2021
1,2-Dichloroethane	ND	0.0035		mg/m <sup>3</sup>	2	4/1/2021
1,2-Dichloropropane	ND	0.0040		mg/m <sup>3</sup>	2	4/1/2021
1,3,5-Trimethylbenzene	0.0049	0.0043		mg/m <sup>3</sup>	2	4/1/2021
1,3-Butadiene	ND	0.0019		mg/m <sup>3</sup>	2	4/1/2021
1,3-Dichlorobenzene	ND	0.0052		mg/m <sup>3</sup>	2	4/1/2021
1,4-Dichlorobenzene	ND	0.0052		mg/m <sup>3</sup>	2	4/1/2021
1,4-Dioxane	ND	0.0078		mg/m <sup>3</sup>	2	4/1/2021
2-Butanone	ND	0.0064		mg/m <sup>3</sup>	2	4/1/2021
2-Hexanone	ND	0.018		mg/m <sup>3</sup>	2	4/1/2021
4-Ethyltoluene	0.0060	0.0043		mg/m <sup>3</sup>	2	4/1/2021
4-Methyl-2-pentanone	ND	0.018		mg/m <sup>3</sup>	2	4/1/2021
Acetone	0.044	0.021	*	mg/m <sup>3</sup>	2	4/1/2021
Benzene	ND	0.0028		mg/m <sup>3</sup>	2	4/1/2021
Benzyl chloride	ND	0.011		mg/m <sup>3</sup>	2	4/1/2021
Bromodichloromethane	ND	0.0058		mg/m <sup>3</sup>	2	4/1/2021
Bromoform	ND	0.022		mg/m <sup>3</sup>	2	4/1/2021
Bromomethane	ND	0.0084		mg/m <sup>3</sup>	2	4/1/2021
Carbon disulfide	ND	0.0027		mg/m <sup>3</sup>	2	4/1/2021
Carbon tetrachloride	ND	0.0055		mg/m <sup>3</sup>	2	4/1/2021
Chlorobenzene	ND	0.0040		mg/m <sup>3</sup>	2	4/1/2021
Chloroethane	ND	0.0023		mg/m <sup>3</sup>	2	4/1/2021
Chloroform	0.0055	0.0042		mg/m <sup>3</sup>	2	4/1/2021
Chloromethane	ND	0.0045		mg/m <sup>3</sup>	2	4/1/2021
cis-1,2-Dichloroethene	ND	0.0034		mg/m <sup>3</sup>	2	4/1/2021
cis-1,3-Dichloropropene	ND	0.0039		mg/m <sup>3</sup>	2	4/1/2021
Cyclohexane	ND	0.0030		mg/m <sup>3</sup>	2	4/1/2021
Dibromochloromethane	ND	0.0074		mg/m <sup>3</sup>	2	4/1/2021
Dichlorodifluoromethane	ND	0.0043		mg/m <sup>3</sup>	2	4/1/2021
Ethyl acetate	ND	0.0078		mg/m <sup>3</sup>	2	4/1/2021

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

**Qualifiers:**

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: April 08, 2021

**ANALYTICAL RESULTS**

Date Printed: April 08, 2021

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV1-3/4

Work Order: 21030974 Revision 0

Collection Date: 3/26/2021 12:25:00 PM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 21030974-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS TO-15</b>					Prep Date: 3/31/2021	Analyst: MAS
Ethylbenzene	0.0062	0.0038		mg/m <sup>3</sup>	2	4/1/2021
Freon-113	ND	0.0066		mg/m <sup>3</sup>	2	4/1/2021
Freon-114	ND	0.030		mg/m <sup>3</sup>	2	4/1/2021
Heptane	ND	0.0036		mg/m <sup>3</sup>	2	4/1/2021
Hexachlorobutadiene	ND	0.0093		mg/m <sup>3</sup>	2	4/1/2021
Hexane	ND	0.0076		mg/m <sup>3</sup>	2	4/1/2021
Isopropyl Alcohol	0.52	0.011		mg/m <sup>3</sup>	2	4/1/2021
m,p-Xylene	0.026	0.0075		mg/m <sup>3</sup>	2	4/1/2021
Methyl tert-butyl ether	ND	0.0031		mg/m <sup>3</sup>	2	4/1/2021
Methylene chloride	ND	0.030		mg/m <sup>3</sup>	2	4/1/2021
Naphthalene	0.0089	0.0045		mg/m <sup>3</sup>	2	4/1/2021
o-Xylene	0.010	0.0038		mg/m <sup>3</sup>	2	4/1/2021
Propene	0.030	0.015		mg/m <sup>3</sup>	2	4/1/2021
Styrene	ND	0.0037		mg/m <sup>3</sup>	2	4/1/2021
Tetrachloroethene	0.033	0.0059		mg/m <sup>3</sup>	2	4/1/2021
Tetrahydrofuran	ND	0.0064		mg/m <sup>3</sup>	2	4/1/2021
Toluene	0.024	0.0033		mg/m <sup>3</sup>	2	4/1/2021
trans-1,2-Dichloroethene	ND	0.0034		mg/m <sup>3</sup>	2	4/1/2021
trans-1,3-Dichloropropene	ND	0.0039		mg/m <sup>3</sup>	2	4/1/2021
Trichloroethene	ND	0.0047		mg/m <sup>3</sup>	2	4/1/2021
Trichlorofluoromethane	ND	0.0049		mg/m <sup>3</sup>	2	4/1/2021
Vinyl acetate	ND	0.031		mg/m <sup>3</sup>	2	4/1/2021
Vinyl chloride	ND	0.0022		mg/m <sup>3</sup>	2	4/1/2021
Xylenes, Total	0.037	0.011		mg/m <sup>3</sup>	2	4/1/2021

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Date Reported: April 08, 2021

**ANALYTICAL RESULTS**

Date Printed: April 08, 2021

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV2-3/4

Work Order: 21030974 Revision 0

Collection Date: 3/26/2021 12:50:00 PM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 21030974-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: 3/31/2021		Analyst: MAS
1,1,1-Trichloroethane	ND	0.0047		mg/m <sup>3</sup>	2	4/2/2021
1,1,2,2-Tetrachloroethane	ND	0.0060		mg/m <sup>3</sup>	2	4/2/2021
1,1,2-Trichloroethane	ND	0.0047		mg/m <sup>3</sup>	2	4/2/2021
1,1-Dichloroethane	ND	0.0035		mg/m <sup>3</sup>	2	4/2/2021
1,1-Dichloroethene	ND	0.0034		mg/m <sup>3</sup>	2	4/2/2021
1,2,4-Trichlorobenzene	ND	0.0064		mg/m <sup>3</sup>	2	4/2/2021
1,2,4-Trimethylbenzene	0.0070	0.0043		mg/m <sup>3</sup>	2	4/2/2021
1,2-Dibromoethane	ND	0.0067		mg/m <sup>3</sup>	2	4/2/2021
1,2-Dichlorobenzene	ND	0.0052		mg/m <sup>3</sup>	2	4/2/2021
1,2-Dichloroethane	ND	0.0035		mg/m <sup>3</sup>	2	4/2/2021
1,2-Dichloropropane	ND	0.0040		mg/m <sup>3</sup>	2	4/2/2021
1,3,5-Trimethylbenzene	ND	0.0043		mg/m <sup>3</sup>	2	4/2/2021
1,3-Butadiene	ND	0.0019		mg/m <sup>3</sup>	2	4/2/2021
1,3-Dichlorobenzene	ND	0.0052		mg/m <sup>3</sup>	2	4/2/2021
1,4-Dichlorobenzene	ND	0.0052		mg/m <sup>3</sup>	2	4/2/2021
1,4-Dioxane	ND	0.0078		mg/m <sup>3</sup>	2	4/2/2021
2-Butanone	ND	0.0064		mg/m <sup>3</sup>	2	4/2/2021
2-Hexanone	ND	0.018		mg/m <sup>3</sup>	2	4/2/2021
4-Ethyltoluene	ND	0.0043		mg/m <sup>3</sup>	2	4/2/2021
4-Methyl-2-pentanone	ND	0.018		mg/m <sup>3</sup>	2	4/2/2021
Acetone	ND	0.021	*	mg/m <sup>3</sup>	2	4/2/2021
Benzene	ND	0.0028		mg/m <sup>3</sup>	2	4/2/2021
Benzyl chloride	ND	0.011		mg/m <sup>3</sup>	2	4/2/2021
Bromodichloromethane	ND	0.0058		mg/m <sup>3</sup>	2	4/2/2021
Bromoform	ND	0.022		mg/m <sup>3</sup>	2	4/2/2021
Bromomethane	ND	0.0084		mg/m <sup>3</sup>	2	4/2/2021
Carbon disulfide	ND	0.0027		mg/m <sup>3</sup>	2	4/2/2021
Carbon tetrachloride	ND	0.0055		mg/m <sup>3</sup>	2	4/2/2021
Chlorobenzene	ND	0.0040		mg/m <sup>3</sup>	2	4/2/2021
Chloroethane	ND	0.0023		mg/m <sup>3</sup>	2	4/2/2021
Chloroform	0.0087	0.0042		mg/m <sup>3</sup>	2	4/2/2021
Chloromethane	ND	0.0045		mg/m <sup>3</sup>	2	4/2/2021
cis-1,2-Dichloroethene	ND	0.0034		mg/m <sup>3</sup>	2	4/2/2021
cis-1,3-Dichloropropene	ND	0.0039		mg/m <sup>3</sup>	2	4/2/2021
Cyclohexane	ND	0.0030		mg/m <sup>3</sup>	2	4/2/2021
Dibromochloromethane	ND	0.0074		mg/m <sup>3</sup>	2	4/2/2021
Dichlorodifluoromethane	ND	0.0043		mg/m <sup>3</sup>	2	4/2/2021
Ethyl acetate	ND	0.0078		mg/m <sup>3</sup>	2	4/2/2021

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: April 08, 2021

**ANALYTICAL RESULTS**

Date Printed: April 08, 2021

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV2-3/4

Work Order: 21030974 Revision 0

Collection Date: 3/26/2021 12:50:00 PM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 21030974-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: <b>3/31/2021</b>		Analyst: <b>MAS</b>
Ethylbenzene	ND	0.0038		mg/m <sup>3</sup>	2	4/2/2021
Freon-113	ND	0.0066		mg/m <sup>3</sup>	2	4/2/2021
Freon-114	ND	0.030		mg/m <sup>3</sup>	2	4/2/2021
Heptane	ND	0.0036		mg/m <sup>3</sup>	2	4/2/2021
Hexachlorobutadiene	ND	0.0092		mg/m <sup>3</sup>	2	4/2/2021
Hexane	ND	0.0076		mg/m <sup>3</sup>	2	4/2/2021
Isopropyl Alcohol	0.13	0.011		mg/m <sup>3</sup>	2	4/2/2021
m,p-Xylene	0.0083	0.0075		mg/m <sup>3</sup>	2	4/2/2021
Methyl tert-butyl ether	ND	0.0031		mg/m <sup>3</sup>	2	4/2/2021
Methylene chloride	ND	0.030		mg/m <sup>3</sup>	2	4/2/2021
Naphthalene	ND	0.0045		mg/m <sup>3</sup>	2	4/2/2021
o-Xylene	ND	0.0038		mg/m <sup>3</sup>	2	4/2/2021
Propene	ND	0.015		mg/m <sup>3</sup>	2	4/2/2021
Styrene	ND	0.0037		mg/m <sup>3</sup>	2	4/2/2021
Tetrachloroethene	0.52	0.0059		mg/m <sup>3</sup>	2	4/2/2021
Tetrahydrofuran	ND	0.0064		mg/m <sup>3</sup>	2	4/2/2021
Toluene	0.0069	0.0033		mg/m <sup>3</sup>	2	4/2/2021
trans-1,2-Dichloroethene	ND	0.0034		mg/m <sup>3</sup>	2	4/2/2021
trans-1,3-Dichloropropene	ND	0.0039		mg/m <sup>3</sup>	2	4/2/2021
Trichloroethene	0.0070	0.0047		mg/m <sup>3</sup>	2	4/2/2021
Trichlorofluoromethane	ND	0.0049		mg/m <sup>3</sup>	2	4/2/2021
Vinyl acetate	ND	0.031		mg/m <sup>3</sup>	2	4/2/2021
Vinyl chloride	ND	0.0022		mg/m <sup>3</sup>	2	4/2/2021
Xylenes, Total	0.012	0.011		mg/m <sup>3</sup>	2	4/2/2021

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: April 08, 2021

**ANALYTICAL RESULTS**

Date Printed: April 08, 2021

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV3-3/4

Work Order: 21030974 Revision 0

Collection Date: 3/26/2021 11:15:00 AM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 21030974-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: 3/31/2021		Analyst: MAS
1,1,1-Trichloroethane	ND	0.0040		mg/m <sup>3</sup>	2	4/2/2021
1,1,2,2-Tetrachloroethane	ND	0.0051		mg/m <sup>3</sup>	2	4/2/2021
1,1,2-Trichloroethane	ND	0.0040		mg/m <sup>3</sup>	2	4/2/2021
1,1-Dichloroethane	ND	0.0030		mg/m <sup>3</sup>	2	4/2/2021
1,1-Dichloroethene	ND	0.0029		mg/m <sup>3</sup>	2	4/2/2021
1,2,4-Trichlorobenzene	ND	0.0055		mg/m <sup>3</sup>	2	4/2/2021
1,2,4-Trimethylbenzene	0.013	0.0036		mg/m <sup>3</sup>	2	4/2/2021
1,2-Dibromoethane	ND	0.0057		mg/m <sup>3</sup>	2	4/2/2021
1,2-Dichlorobenzene	ND	0.0044		mg/m <sup>3</sup>	2	4/2/2021
1,2-Dichloroethane	ND	0.0030		mg/m <sup>3</sup>	2	4/2/2021
1,2-Dichloropropane	ND	0.0034		mg/m <sup>3</sup>	2	4/2/2021
1,3,5-Trimethylbenzene	ND	0.0036		mg/m <sup>3</sup>	2	4/2/2021
1,3-Butadiene	ND	0.0016		mg/m <sup>3</sup>	2	4/2/2021
1,3-Dichlorobenzene	ND	0.0044		mg/m <sup>3</sup>	2	4/2/2021
1,4-Dichlorobenzene	ND	0.0044		mg/m <sup>3</sup>	2	4/2/2021
1,4-Dioxane	ND	0.0066		mg/m <sup>3</sup>	2	4/2/2021
2-Butanone	ND	0.0054		mg/m <sup>3</sup>	2	4/2/2021
2-Hexanone	ND	0.015		mg/m <sup>3</sup>	2	4/2/2021
4-Ethyltoluene	0.0045	0.0036		mg/m <sup>3</sup>	2	4/2/2021
4-Methyl-2-pentanone	ND	0.015		mg/m <sup>3</sup>	2	4/2/2021
Acetone	0.051	0.018	*	mg/m <sup>3</sup>	2	4/2/2021
Benzene	ND	0.0024		mg/m <sup>3</sup>	2	4/2/2021
Benzyl chloride	ND	0.0095		mg/m <sup>3</sup>	2	4/2/2021
Bromodichloromethane	ND	0.0049		mg/m <sup>3</sup>	2	4/2/2021
Bromoform	ND	0.019		mg/m <sup>3</sup>	2	4/2/2021
Bromomethane	ND	0.0072		mg/m <sup>3</sup>	2	4/2/2021
Carbon disulfide	ND	0.0023		mg/m <sup>3</sup>	2	4/2/2021
Carbon tetrachloride	ND	0.0046		mg/m <sup>3</sup>	2	4/2/2021
Chlorobenzene	ND	0.0034		mg/m <sup>3</sup>	2	4/2/2021
Chloroethane	ND	0.0019		mg/m <sup>3</sup>	2	4/2/2021
Chloroform	ND	0.0036		mg/m <sup>3</sup>	2	4/2/2021
Chloromethane	ND	0.0038		mg/m <sup>3</sup>	2	4/2/2021
cis-1,2-Dichloroethene	ND	0.0029		mg/m <sup>3</sup>	2	4/2/2021
cis-1,3-Dichloropropene	ND	0.0033		mg/m <sup>3</sup>	2	4/2/2021
Cyclohexane	ND	0.0025		mg/m <sup>3</sup>	2	4/2/2021
Dibromochloromethane	ND	0.0063		mg/m <sup>3</sup>	2	4/2/2021
Dichlorodifluoromethane	ND	0.0036		mg/m <sup>3</sup>	2	4/2/2021
Ethyl acetate	ND	0.0066		mg/m <sup>3</sup>	2	4/2/2021

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

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Date Reported: April 08, 2021

**ANALYTICAL RESULTS**

Date Printed: April 08, 2021

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV3-3/4

Work Order: 21030974 Revision 0

Collection Date: 3/26/2021 11:15:00 AM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 21030974-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS TO-15</b>					Prep Date: 3/31/2021	Analyst: MAS
Ethylbenzene	0.0058	0.0032		mg/m <sup>3</sup>	2	4/2/2021
Freon-113	ND	0.0057		mg/m <sup>3</sup>	2	4/2/2021
Freon-114	ND	0.026		mg/m <sup>3</sup>	2	4/2/2021
Heptane	ND	0.0030		mg/m <sup>3</sup>	2	4/2/2021
Hexachlorobutadiene	ND	0.0079		mg/m <sup>3</sup>	2	4/2/2021
Hexane	ND	0.0065		mg/m <sup>3</sup>	2	4/2/2021
Isopropyl Alcohol	1.7	0.11		mg/m <sup>3</sup>	25	4/2/2021
m,p-Xylene	0.024	0.0064		mg/m <sup>3</sup>	2	4/2/2021
Methyl tert-butyl ether	ND	0.0027		mg/m <sup>3</sup>	2	4/2/2021
Methylene chloride	ND	0.026		mg/m <sup>3</sup>	2	4/2/2021
Naphthalene	ND	0.0039		mg/m <sup>3</sup>	2	4/2/2021
o-Xylene	0.0090	0.0032		mg/m <sup>3</sup>	2	4/2/2021
Propene	0.098	0.013		mg/m <sup>3</sup>	2	4/2/2021
Styrene	ND	0.0031		mg/m <sup>3</sup>	2	4/2/2021
Tetrachloroethene	0.12	0.0050		mg/m <sup>3</sup>	2	4/2/2021
Tetrahydrofuran	ND	0.0054		mg/m <sup>3</sup>	2	4/2/2021
Toluene	0.021	0.0028		mg/m <sup>3</sup>	2	4/2/2021
trans-1,2-Dichloroethene	ND	0.0029		mg/m <sup>3</sup>	2	4/2/2021
trans-1,3-Dichloropropene	ND	0.0033		mg/m <sup>3</sup>	2	4/2/2021
Trichloroethene	ND	0.0040		mg/m <sup>3</sup>	2	4/2/2021
Trichlorofluoromethane	ND	0.0041		mg/m <sup>3</sup>	2	4/2/2021
Vinyl acetate	ND	0.026		mg/m <sup>3</sup>	2	4/2/2021
Vinyl chloride	ND	0.0019		mg/m <sup>3</sup>	2	4/2/2021
Xylenes, Total	0.033	0.0096		mg/m <sup>3</sup>	2	4/2/2021

**Qualifiers:**  
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Date Reported: April 08, 2021

Date Printed: April 08, 2021

**ANALYTICAL RESULTS**

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV4-3/4

Work Order: 21030974 Revision 0

Collection Date: 3/26/2021 11:35:00 AM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 21030974-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: 3/31/2021		Analyst: MAS
1,1,1-Trichloroethane	ND	0.0044		mg/m <sup>3</sup>	2	4/2/2021
1,1,2,2-Tetrachloroethane	ND	0.0056		mg/m <sup>3</sup>	2	4/2/2021
1,1,2-Trichloroethane	ND	0.0044		mg/m <sup>3</sup>	2	4/2/2021
1,1-Dichloroethane	ND	0.0033		mg/m <sup>3</sup>	2	4/2/2021
1,1-Dichloroethene	ND	0.0032		mg/m <sup>3</sup>	2	4/2/2021
1,2,4-Trichlorobenzene	ND	0.0060		mg/m <sup>3</sup>	2	4/2/2021
1,2,4-Trimethylbenzene	0.023	0.0040		mg/m <sup>3</sup>	2	4/2/2021
1,2-Dibromoethane	ND	0.0062		mg/m <sup>3</sup>	2	4/2/2021
1,2-Dichlorobenzene	ND	0.0049		mg/m <sup>3</sup>	2	4/2/2021
1,2-Dichloroethane	ND	0.0033		mg/m <sup>3</sup>	2	4/2/2021
1,2-Dichloropropane	ND	0.0037		mg/m <sup>3</sup>	2	4/2/2021
1,3,5-Trimethylbenzene	0.0058	0.0040		mg/m <sup>3</sup>	2	4/2/2021
1,3-Butadiene	ND	0.0018		mg/m <sup>3</sup>	2	4/2/2021
1,3-Dichlorobenzene	ND	0.0049		mg/m <sup>3</sup>	2	4/2/2021
1,4-Dichlorobenzene	ND	0.0049		mg/m <sup>3</sup>	2	4/2/2021
1,4-Dioxane	ND	0.0073		mg/m <sup>3</sup>	2	4/2/2021
2-Butanone	ND	0.0060		mg/m <sup>3</sup>	2	4/2/2021
2-Hexanone	ND	0.017		mg/m <sup>3</sup>	2	4/2/2021
4-Ethyltoluene	0.0064	0.0040		mg/m <sup>3</sup>	2	4/2/2021
4-Methyl-2-pentanone	ND	0.017		mg/m <sup>3</sup>	2	4/2/2021
Acetone	0.046	0.019	*	mg/m <sup>3</sup>	2	4/2/2021
Benzene	ND	0.0026		mg/m <sup>3</sup>	2	4/2/2021
Benzyl chloride	ND	0.010		mg/m <sup>3</sup>	2	4/2/2021
Bromodichloromethane	ND	0.0054		mg/m <sup>3</sup>	2	4/2/2021
Bromoform	ND	0.021		mg/m <sup>3</sup>	2	4/2/2021
Bromomethane	ND	0.0079		mg/m <sup>3</sup>	2	4/2/2021
Carbon disulfide	ND	0.0025		mg/m <sup>3</sup>	2	4/2/2021
Carbon tetrachloride	ND	0.0051		mg/m <sup>3</sup>	2	4/2/2021
Chlorobenzene	ND	0.0037		mg/m <sup>3</sup>	2	4/2/2021
Chloroethane	ND	0.0021		mg/m <sup>3</sup>	2	4/2/2021
Chloroform	ND	0.0040		mg/m <sup>3</sup>	2	4/2/2021
Chloromethane	ND	0.0042		mg/m <sup>3</sup>	2	4/2/2021
cis-1,2-Dichloroethene	ND	0.0032		mg/m <sup>3</sup>	2	4/2/2021
cis-1,3-Dichloropropene	ND	0.0037		mg/m <sup>3</sup>	2	4/2/2021
Cyclohexane	ND	0.0028		mg/m <sup>3</sup>	2	4/2/2021
Dibromochloromethane	ND	0.0069		mg/m <sup>3</sup>	2	4/2/2021
Dichlorodifluoromethane	ND	0.0040		mg/m <sup>3</sup>	2	4/2/2021
Ethyl acetate	ND	0.0073		mg/m <sup>3</sup>	2	4/2/2021

ND - Not Detected at the Reporting Limit

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Qualifiers: J - Analyte detected below quantitation limits

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R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

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Date Reported: April 08, 2021

**ANALYTICAL RESULTS**

Date Printed: April 08, 2021

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV4-3/4

Work Order: 21030974 Revision 0

Collection Date: 3/26/2021 11:35:00 AM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 21030974-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS TO-15</b>					Prep Date: 3/31/2021	Analyst: MAS
Ethylbenzene	0.0069	0.0035		mg/m <sup>3</sup>	2	4/2/2021
Freon-113	ND	0.0062		mg/m <sup>3</sup>	2	4/2/2021
Freon-114	ND	0.028		mg/m <sup>3</sup>	2	4/2/2021
Heptane	ND	0.0033		mg/m <sup>3</sup>	2	4/2/2021
Hexachlorobutadiene	ND	0.0086		mg/m <sup>3</sup>	2	4/2/2021
Hexane	ND	0.0071		mg/m <sup>3</sup>	2	4/2/2021
Isopropyl Alcohol	0.78	0.12		mg/m <sup>3</sup>	25	4/2/2021
m,p-Xylene	0.033	0.0070		mg/m <sup>3</sup>	2	4/2/2021
Methyl tert-butyl ether	ND	0.0029		mg/m <sup>3</sup>	2	4/2/2021
Methylene chloride	ND	0.028		mg/m <sup>3</sup>	2	4/2/2021
Naphthalene	0.0055	0.0042		mg/m <sup>3</sup>	2	4/2/2021
o-Xylene	0.013	0.0035		mg/m <sup>3</sup>	2	4/2/2021
Propene	0.044	0.014		mg/m <sup>3</sup>	2	4/2/2021
Styrene	ND	0.0035		mg/m <sup>3</sup>	2	4/2/2021
Tetrachloroethene	0.020	0.0055		mg/m <sup>3</sup>	2	4/2/2021
Tetrahydrofuran	ND	0.0060		mg/m <sup>3</sup>	2	4/2/2021
Toluene	0.031	0.0031		mg/m <sup>3</sup>	2	4/2/2021
trans-1,2-Dichloroethene	ND	0.0032		mg/m <sup>3</sup>	2	4/2/2021
trans-1,3-Dichloropropene	ND	0.0037		mg/m <sup>3</sup>	2	4/2/2021
Trichloroethene	ND	0.0044		mg/m <sup>3</sup>	2	4/2/2021
Trichlorofluoromethane	ND	0.0046		mg/m <sup>3</sup>	2	4/2/2021
Vinyl acetate	ND	0.029		mg/m <sup>3</sup>	2	4/2/2021
Vinyl chloride	ND	0.0021		mg/m <sup>3</sup>	2	4/2/2021
Xylenes, Total	0.047	0.011		mg/m <sup>3</sup>	2	4/2/2021

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

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 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: April 08, 2021

Date Printed: April 08, 2021

**ANALYTICAL RESULTS**

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV5-3/4

Work Order: 21030974 Revision 0

Collection Date: 3/26/2021 1:20:00 PM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 21030974-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: 3/31/2021		Analyst: MAS
1,1,1-Trichloroethane	ND	0.0046		mg/m <sup>3</sup>	2	4/2/2021
1,1,2,2-Tetrachloroethane	ND	0.0058		mg/m <sup>3</sup>	2	4/2/2021
1,1,2-Trichloroethane	ND	0.0046		mg/m <sup>3</sup>	2	4/2/2021
1,1-Dichloroethane	ND	0.0034		mg/m <sup>3</sup>	2	4/2/2021
1,1-Dichloroethene	ND	0.0034		mg/m <sup>3</sup>	2	4/2/2021
1,2,4-Trichlorobenzene	ND	0.0063		mg/m <sup>3</sup>	2	4/2/2021
1,2,4-Trimethylbenzene	0.021	0.0042		mg/m <sup>3</sup>	2	4/2/2021
1,2-Dibromoethane	ND	0.0065		mg/m <sup>3</sup>	2	4/2/2021
1,2-Dichlorobenzene	ND	0.0051		mg/m <sup>3</sup>	2	4/2/2021
1,2-Dichloroethane	ND	0.0034		mg/m <sup>3</sup>	2	4/2/2021
1,2-Dichloropropane	ND	0.0039		mg/m <sup>3</sup>	2	4/2/2021
1,3,5-Trimethylbenzene	0.0048	0.0042		mg/m <sup>3</sup>	2	4/2/2021
1,3-Butadiene	ND	0.0019		mg/m <sup>3</sup>	2	4/2/2021
1,3-Dichlorobenzene	ND	0.0051		mg/m <sup>3</sup>	2	4/2/2021
1,4-Dichlorobenzene	ND	0.0051		mg/m <sup>3</sup>	2	4/2/2021
1,4-Dioxane	ND	0.0076		mg/m <sup>3</sup>	2	4/2/2021
2-Butanone	ND	0.0062		mg/m <sup>3</sup>	2	4/2/2021
2-Hexanone	ND	0.017		mg/m <sup>3</sup>	2	4/2/2021
4-Ethyltoluene	0.0056	0.0042		mg/m <sup>3</sup>	2	4/2/2021
4-Methyl-2-pentanone	ND	0.017		mg/m <sup>3</sup>	2	4/2/2021
Acetone	0.038	0.020	*	mg/m <sup>3</sup>	2	4/2/2021
Benzene	ND	0.0027		mg/m <sup>3</sup>	2	4/2/2021
Benzyl chloride	ND	0.011		mg/m <sup>3</sup>	2	4/2/2021
Bromodichloromethane	ND	0.0057		mg/m <sup>3</sup>	2	4/2/2021
Bromoform	ND	0.022		mg/m <sup>3</sup>	2	4/2/2021
Bromomethane	ND	0.0082		mg/m <sup>3</sup>	2	4/2/2021
Carbon disulfide	ND	0.0026		mg/m <sup>3</sup>	2	4/2/2021
Carbon tetrachloride	ND	0.0053		mg/m <sup>3</sup>	2	4/2/2021
Chlorobenzene	ND	0.0039		mg/m <sup>3</sup>	2	4/2/2021
Chloroethane	ND	0.0022		mg/m <sup>3</sup>	2	4/2/2021
Chloroform	ND	0.0041		mg/m <sup>3</sup>	2	4/2/2021
Chloromethane	ND	0.0044		mg/m <sup>3</sup>	2	4/2/2021
cis-1,2-Dichloroethene	ND	0.0034		mg/m <sup>3</sup>	2	4/2/2021
cis-1,3-Dichloropropene	ND	0.0038		mg/m <sup>3</sup>	2	4/2/2021
Cyclohexane	ND	0.0029		mg/m <sup>3</sup>	2	4/2/2021
Dibromochloromethane	ND	0.0072		mg/m <sup>3</sup>	2	4/2/2021
Dichlorodifluoromethane	ND	0.0042		mg/m <sup>3</sup>	2	4/2/2021
Ethyl acetate	ND	0.0076		mg/m <sup>3</sup>	2	4/2/2021

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: April 08, 2021

**ANALYTICAL RESULTS**

Date Printed: April 08, 2021

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV5-3/4

Work Order: 21030974 Revision 0

Collection Date: 3/26/2021 1:20:00 PM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 21030974-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS TO-15</b>					Prep Date: 3/31/2021	Analyst: MAS
Ethylbenzene	0.0066	0.0037		mg/m <sup>3</sup>	2	4/2/2021
Freon-113	ND	0.0065		mg/m <sup>3</sup>	2	4/2/2021
Freon-114	ND	0.030		mg/m <sup>3</sup>	2	4/2/2021
Heptane	ND	0.0035		mg/m <sup>3</sup>	2	4/2/2021
Hexachlorobutadiene	ND	0.0090		mg/m <sup>3</sup>	2	4/2/2021
Hexane	ND	0.0075		mg/m <sup>3</sup>	2	4/2/2021
Isopropyl Alcohol	0.74	0.13		mg/m <sup>3</sup>	25	4/2/2021
m,p-Xylene	0.031	0.0074		mg/m <sup>3</sup>	2	4/2/2021
Methyl tert-butyl ether	ND	0.0031		mg/m <sup>3</sup>	2	4/2/2021
Methylene chloride	ND	0.029		mg/m <sup>3</sup>	2	4/2/2021
Naphthalene	0.0049	0.0044		mg/m <sup>3</sup>	2	4/2/2021
o-Xylene	0.012	0.0037		mg/m <sup>3</sup>	2	4/2/2021
Propene	0.040	0.015		mg/m <sup>3</sup>	2	4/2/2021
Styrene	ND	0.0036		mg/m <sup>3</sup>	2	4/2/2021
Tetrachloroethene	0.088	0.0057		mg/m <sup>3</sup>	2	4/2/2021
Tetrahydrofuran	ND	0.0062		mg/m <sup>3</sup>	2	4/2/2021
Toluene	0.027	0.0032		mg/m <sup>3</sup>	2	4/2/2021
trans-1,2-Dichloroethene	ND	0.0034		mg/m <sup>3</sup>	2	4/2/2021
trans-1,3-Dichloropropene	ND	0.0038		mg/m <sup>3</sup>	2	4/2/2021
Trichloroethene	ND	0.0046		mg/m <sup>3</sup>	2	4/2/2021
Trichlorofluoromethane	ND	0.0048		mg/m <sup>3</sup>	2	4/2/2021
Vinyl acetate	ND	0.030		mg/m <sup>3</sup>	2	4/2/2021
Vinyl chloride	ND	0.0022		mg/m <sup>3</sup>	2	4/2/2021
Xylenes, Total	0.042	0.011		mg/m <sup>3</sup>	2	4/2/2021

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Date Reported: April 08, 2021

**ANALYTICAL RESULTS**

Date Printed: April 08, 2021

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV6-3/4

Work Order: 21030974 Revision 0

Collection Date: 3/26/2021 11:50:00 AM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 21030974-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: 3/31/2021		Analyst: MAS
1,1,1-Trichloroethane	ND	0.0045		mg/m <sup>3</sup>	2	4/2/2021
1,1,2,2-Tetrachloroethane	ND	0.0056		mg/m <sup>3</sup>	2	4/2/2021
1,1,2-Trichloroethane	ND	0.0045		mg/m <sup>3</sup>	2	4/2/2021
1,1-Dichloroethane	ND	0.0033		mg/m <sup>3</sup>	2	4/2/2021
1,1-Dichloroethene	ND	0.0033		mg/m <sup>3</sup>	2	4/2/2021
1,2,4-Trichlorobenzene	ND	0.0061		mg/m <sup>3</sup>	2	4/2/2021
1,2,4-Trimethylbenzene	0.021	0.0040		mg/m <sup>3</sup>	2	4/2/2021
1,2-Dibromoethane	ND	0.0063		mg/m <sup>3</sup>	2	4/2/2021
1,2-Dichlorobenzene	ND	0.0049		mg/m <sup>3</sup>	2	4/2/2021
1,2-Dichloroethane	ND	0.0033		mg/m <sup>3</sup>	2	4/2/2021
1,2-Dichloropropane	ND	0.0038		mg/m <sup>3</sup>	2	4/2/2021
1,3,5-Trimethylbenzene	0.0044	0.0040		mg/m <sup>3</sup>	2	4/2/2021
1,3-Butadiene	ND	0.0018		mg/m <sup>3</sup>	2	4/2/2021
1,3-Dichlorobenzene	ND	0.0049		mg/m <sup>3</sup>	2	4/2/2021
1,4-Dichlorobenzene	ND	0.0049		mg/m <sup>3</sup>	2	4/2/2021
1,4-Dioxane	ND	0.0074		mg/m <sup>3</sup>	2	4/2/2021
2-Butanone	ND	0.0060		mg/m <sup>3</sup>	2	4/2/2021
2-Hexanone	ND	0.017		mg/m <sup>3</sup>	2	4/2/2021
4-Ethyltoluene	0.0054	0.0040		mg/m <sup>3</sup>	2	4/2/2021
4-Methyl-2-pentanone	ND	0.017		mg/m <sup>3</sup>	2	4/2/2021
Acetone	0.033	0.019	*	mg/m <sup>3</sup>	2	4/2/2021
Benzene	ND	0.0026		mg/m <sup>3</sup>	2	4/2/2021
Benzyl chloride	ND	0.011		mg/m <sup>3</sup>	2	4/2/2021
Bromodichloromethane	ND	0.0055		mg/m <sup>3</sup>	2	4/2/2021
Bromoform	ND	0.021		mg/m <sup>3</sup>	2	4/2/2021
Bromomethane	ND	0.0080		mg/m <sup>3</sup>	2	4/2/2021
Carbon disulfide	ND	0.0026		mg/m <sup>3</sup>	2	4/2/2021
Carbon tetrachloride	ND	0.0052		mg/m <sup>3</sup>	2	4/2/2021
Chlorobenzene	ND	0.0038		mg/m <sup>3</sup>	2	4/2/2021
Chloroethane	ND	0.0022		mg/m <sup>3</sup>	2	4/2/2021
Chloroform	ND	0.0040		mg/m <sup>3</sup>	2	4/2/2021
Chloromethane	ND	0.0042		mg/m <sup>3</sup>	2	4/2/2021
cis-1,2-Dichloroethene	ND	0.0033		mg/m <sup>3</sup>	2	4/2/2021
cis-1,3-Dichloropropene	ND	0.0037		mg/m <sup>3</sup>	2	4/2/2021
Cyclohexane	ND	0.0028		mg/m <sup>3</sup>	2	4/2/2021
Dibromochloromethane	ND	0.0070		mg/m <sup>3</sup>	2	4/2/2021
Dichlorodifluoromethane	ND	0.0041		mg/m <sup>3</sup>	2	4/2/2021
Ethyl acetate	ND	0.0074		mg/m <sup>3</sup>	2	4/2/2021

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

**Qualifiers:**

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

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Date Reported: April 08, 2021

**ANALYTICAL RESULTS**

Date Printed: April 08, 2021

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV6-3/4

Work Order: 21030974 Revision 0

Collection Date: 3/26/2021 11:50:00 AM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 21030974-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS TO-15</b>					Prep Date: 3/31/2021	Analyst: MAS
Ethylbenzene	0.0064	0.0036		mg/m <sup>3</sup>	2	4/2/2021
Freon-113	ND	0.0063		mg/m <sup>3</sup>	2	4/2/2021
Freon-114	ND	0.029		mg/m <sup>3</sup>	2	4/2/2021
Heptane	ND	0.0034		mg/m <sup>3</sup>	2	4/2/2021
Hexachlorobutadiene	ND	0.0087		mg/m <sup>3</sup>	2	4/2/2021
Hexane	ND	0.0072		mg/m <sup>3</sup>	2	4/2/2021
Isopropyl Alcohol	0.59	0.13		mg/m <sup>3</sup>	25	4/2/2021
m,p-Xylene	0.028	0.0071		mg/m <sup>3</sup>	2	4/2/2021
Methyl tert-butyl ether	ND	0.0030		mg/m <sup>3</sup>	2	4/2/2021
Methylene chloride	ND	0.028		mg/m <sup>3</sup>	2	4/2/2021
Naphthalene	0.0054	0.0043		mg/m <sup>3</sup>	2	4/2/2021
o-Xylene	0.011	0.0036		mg/m <sup>3</sup>	2	4/2/2021
Propene	0.034	0.014		mg/m <sup>3</sup>	2	4/2/2021
Styrene	ND	0.0035		mg/m <sup>3</sup>	2	4/2/2021
Tetrachloroethene	0.061	0.0056		mg/m <sup>3</sup>	2	4/2/2021
Tetrahydrofuran	ND	0.0060		mg/m <sup>3</sup>	2	4/2/2021
Toluene	0.023	0.0031		mg/m <sup>3</sup>	2	4/2/2021
trans-1,2-Dichloroethene	ND	0.0033		mg/m <sup>3</sup>	2	4/2/2021
trans-1,3-Dichloropropene	ND	0.0037		mg/m <sup>3</sup>	2	4/2/2021
Trichloroethene	ND	0.0044		mg/m <sup>3</sup>	2	4/2/2021
Trichlorofluoromethane	ND	0.0046		mg/m <sup>3</sup>	2	4/2/2021
Vinyl acetate	ND	0.029		mg/m <sup>3</sup>	2	4/2/2021
Vinyl chloride	ND	0.0021		mg/m <sup>3</sup>	2	4/2/2021
Xylenes, Total	0.039	0.011		mg/m <sup>3</sup>	2	4/2/2021

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
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 R - RPD outside accepted recovery limits  
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Date Reported: April 08, 2021

**ANALYTICAL RESULTS**

Date Printed: April 08, 2021

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV7-3/4

Work Order: 21030974 Revision 0

Collection Date: 3/26/2021 10:35:00 AM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 21030974-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: 3/31/2021		Analyst: MAS
1,1,1-Trichloroethane	ND	0.0037		mg/m <sup>3</sup>	2	4/2/2021
1,1,2,2-Tetrachloroethane	ND	0.0046		mg/m <sup>3</sup>	2	4/2/2021
1,1,2-Trichloroethane	ND	0.0037		mg/m <sup>3</sup>	2	4/2/2021
1,1-Dichloroethane	ND	0.0027		mg/m <sup>3</sup>	2	4/2/2021
1,1-Dichloroethene	ND	0.0027		mg/m <sup>3</sup>	2	4/2/2021
1,2,4-Trichlorobenzene	ND	0.0050		mg/m <sup>3</sup>	2	4/2/2021
1,2,4-Trimethylbenzene	0.012	0.0033		mg/m <sup>3</sup>	2	4/2/2021
1,2-Dibromoethane	ND	0.0052		mg/m <sup>3</sup>	2	4/2/2021
1,2-Dichlorobenzene	ND	0.0041		mg/m <sup>3</sup>	2	4/2/2021
1,2-Dichloroethane	ND	0.0027		mg/m <sup>3</sup>	2	4/2/2021
1,2-Dichloropropane	ND	0.0031		mg/m <sup>3</sup>	2	4/2/2021
1,3,5-Trimethylbenzene	ND	0.0033		mg/m <sup>3</sup>	2	4/2/2021
1,3-Butadiene	ND	0.0015		mg/m <sup>3</sup>	2	4/2/2021
1,3-Dichlorobenzene	ND	0.0041		mg/m <sup>3</sup>	2	4/2/2021
1,4-Dichlorobenzene	ND	0.0041		mg/m <sup>3</sup>	2	4/2/2021
1,4-Dioxane	ND	0.0061		mg/m <sup>3</sup>	2	4/2/2021
2-Butanone	ND	0.0050		mg/m <sup>3</sup>	2	4/2/2021
2-Hexanone	ND	0.014		mg/m <sup>3</sup>	2	4/2/2021
4-Ethyltoluene	0.0035	0.0033		mg/m <sup>3</sup>	2	4/2/2021
4-Methyl-2-pentanone	ND	0.014		mg/m <sup>3</sup>	2	4/2/2021
Acetone	0.045	0.016	*	mg/m <sup>3</sup>	2	4/2/2021
Benzene	ND	0.0022		mg/m <sup>3</sup>	2	4/2/2021
Benzyl chloride	ND	0.0088		mg/m <sup>3</sup>	2	4/2/2021
Bromodichloromethane	0.0068	0.0045		mg/m <sup>3</sup>	2	4/2/2021
Bromoform	ND	0.017		mg/m <sup>3</sup>	2	4/2/2021
Bromomethane	ND	0.0066		mg/m <sup>3</sup>	2	4/2/2021
Carbon disulfide	ND	0.0021		mg/m <sup>3</sup>	2	4/2/2021
Carbon tetrachloride	ND	0.0043		mg/m <sup>3</sup>	2	4/2/2021
Chlorobenzene	ND	0.0031		mg/m <sup>3</sup>	2	4/2/2021
Chloroethane	ND	0.0018		mg/m <sup>3</sup>	2	4/2/2021
Chloroform	0.0079	0.0033		mg/m <sup>3</sup>	2	4/2/2021
Chloromethane	ND	0.0035		mg/m <sup>3</sup>	2	4/2/2021
cis-1,2-Dichloroethene	0.0068	0.0027		mg/m <sup>3</sup>	2	4/2/2021
cis-1,3-Dichloropropene	ND	0.0031		mg/m <sup>3</sup>	2	4/2/2021
Cyclohexane	ND	0.0023		mg/m <sup>3</sup>	2	4/2/2021
Dibromochloromethane	ND	0.0058		mg/m <sup>3</sup>	2	4/2/2021
Dichlorodifluoromethane	ND	0.0033		mg/m <sup>3</sup>	2	4/2/2021
Ethyl acetate	ND	0.0061		mg/m <sup>3</sup>	2	4/2/2021

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

**Qualifiers:**

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

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Date Reported: April 08, 2021

**ANALYTICAL RESULTS**

Date Printed: April 08, 2021

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV7-3/4

Work Order: 21030974 Revision 0

Collection Date: 3/26/2021 10:35:00 AM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 21030974-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS TO-15</b>					Prep Date: 3/31/2021	Analyst: MAS
Ethylbenzene	0.0034	0.0029		mg/m <sup>3</sup>	2	4/2/2021
Freon-113	ND	0.0052		mg/m <sup>3</sup>	2	4/2/2021
Freon-114	ND	0.024		mg/m <sup>3</sup>	2	4/2/2021
Heptane	ND	0.0028		mg/m <sup>3</sup>	2	4/2/2021
Hexachlorobutadiene	ND	0.0072		mg/m <sup>3</sup>	2	4/2/2021
Hexane	ND	0.0060		mg/m <sup>3</sup>	2	4/2/2021
Isopropyl Alcohol	0.77	0.10		mg/m <sup>3</sup>	25	4/2/2021
m,p-Xylene	0.016	0.0059		mg/m <sup>3</sup>	2	4/2/2021
Methyl tert-butyl ether	ND	0.0024		mg/m <sup>3</sup>	2	4/2/2021
Methylene chloride	0.027	0.023		mg/m <sup>3</sup>	2	4/2/2021
Naphthalene	0.0039	0.0035		mg/m <sup>3</sup>	2	4/2/2021
o-Xylene	0.0059	0.0029		mg/m <sup>3</sup>	2	4/2/2021
Propene	0.050	0.012		mg/m <sup>3</sup>	2	4/2/2021
Styrene	ND	0.0029		mg/m <sup>3</sup>	2	4/2/2021
Tetrachloroethene	6.8	0.057		mg/m <sup>3</sup>	25	4/2/2021
Tetrahydrofuran	ND	0.0050		mg/m <sup>3</sup>	2	4/2/2021
Toluene	0.016	0.0025		mg/m <sup>3</sup>	2	4/2/2021
trans-1,2-Dichloroethene	ND	0.0027		mg/m <sup>3</sup>	2	4/2/2021
trans-1,3-Dichloropropene	ND	0.0031		mg/m <sup>3</sup>	2	4/2/2021
Trichloroethene	0.16	0.0036		mg/m <sup>3</sup>	2	4/2/2021
Trichlorofluoromethane	ND	0.0038		mg/m <sup>3</sup>	2	4/2/2021
Vinyl acetate	ND	0.024		mg/m <sup>3</sup>	2	4/2/2021
Vinyl chloride	ND	0.0017		mg/m <sup>3</sup>	2	4/2/2021
Xylenes, Total	0.022	0.0088		mg/m <sup>3</sup>	2	4/2/2021

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded



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Date Reported: April 08, 2021

**ANALYTICAL RESULTS**

Date Printed: April 08, 2021

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV7-3/4D

Work Order: 21030974 Revision 0

Collection Date: 3/26/2021 10:55:00 AM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 21030974-008

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: 3/31/2021		Analyst: MAS
1,1,1-Trichloroethane	ND	0.0045		mg/m <sup>3</sup>	2	4/2/2021
1,1,2,2-Tetrachloroethane	ND	0.0057		mg/m <sup>3</sup>	2	4/2/2021
1,1,2-Trichloroethane	ND	0.0045		mg/m <sup>3</sup>	2	4/2/2021
1,1-Dichloroethane	ND	0.0034		mg/m <sup>3</sup>	2	4/2/2021
1,1-Dichloroethene	ND	0.0033		mg/m <sup>3</sup>	2	4/2/2021
1,2,4-Trichlorobenzene	ND	0.0061		mg/m <sup>3</sup>	2	4/2/2021
1,2,4-Trimethylbenzene	0.0055	0.0041		mg/m <sup>3</sup>	2	4/2/2021
1,2-Dibromoethane	ND	0.0064		mg/m <sup>3</sup>	2	4/2/2021
1,2-Dichlorobenzene	ND	0.0050		mg/m <sup>3</sup>	2	4/2/2021
1,2-Dichloroethane	ND	0.0034		mg/m <sup>3</sup>	2	4/2/2021
1,2-Dichloropropane	ND	0.0038		mg/m <sup>3</sup>	2	4/2/2021
1,3,5-Trimethylbenzene	ND	0.0041		mg/m <sup>3</sup>	2	4/2/2021
1,3-Butadiene	ND	0.0018		mg/m <sup>3</sup>	2	4/2/2021
1,3-Dichlorobenzene	ND	0.0050		mg/m <sup>3</sup>	2	4/2/2021
1,4-Dichlorobenzene	ND	0.0050		mg/m <sup>3</sup>	2	4/2/2021
1,4-Dioxane	ND	0.0075		mg/m <sup>3</sup>	2	4/2/2021
2-Butanone	ND	0.0061		mg/m <sup>3</sup>	2	4/2/2021
2-Hexanone	ND	0.017		mg/m <sup>3</sup>	2	4/2/2021
4-Ethyltoluene	ND	0.0041		mg/m <sup>3</sup>	2	4/2/2021
4-Methyl-2-pentanone	ND	0.017		mg/m <sup>3</sup>	2	4/2/2021
Acetone	ND	0.020	*	mg/m <sup>3</sup>	2	4/2/2021
Benzene	ND	0.0026		mg/m <sup>3</sup>	2	4/2/2021
Benzyl chloride	ND	0.011		mg/m <sup>3</sup>	2	4/2/2021
Bromodichloromethane	0.0072	0.0055		mg/m <sup>3</sup>	2	4/2/2021
Bromoform	ND	0.021		mg/m <sup>3</sup>	2	4/2/2021
Bromomethane	ND	0.0080		mg/m <sup>3</sup>	2	4/2/2021
Carbon disulfide	ND	0.0026		mg/m <sup>3</sup>	2	4/2/2021
Carbon tetrachloride	ND	0.0052		mg/m <sup>3</sup>	2	4/2/2021
Chlorobenzene	ND	0.0038		mg/m <sup>3</sup>	2	4/2/2021
Chloroethane	ND	0.0022		mg/m <sup>3</sup>	2	4/2/2021
Chloroform	0.0075	0.0040		mg/m <sup>3</sup>	2	4/2/2021
Chloromethane	ND	0.0043		mg/m <sup>3</sup>	2	4/2/2021
cis-1,2-Dichloroethene	0.0064	0.0033		mg/m <sup>3</sup>	2	4/2/2021
cis-1,3-Dichloropropene	ND	0.0038		mg/m <sup>3</sup>	2	4/2/2021
Cyclohexane	ND	0.0029		mg/m <sup>3</sup>	2	4/2/2021
Dibromochloromethane	ND	0.0071		mg/m <sup>3</sup>	2	4/2/2021
Dichlorodifluoromethane	ND	0.0041		mg/m <sup>3</sup>	2	4/2/2021
Ethyl acetate	ND	0.0075		mg/m <sup>3</sup>	2	4/2/2021

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: April 08, 2021

**ANALYTICAL RESULTS**

Date Printed: April 08, 2021

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV7-3/4D

Work Order: 21030974 Revision 0

Collection Date: 3/26/2021 10:55:00 AM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 21030974-008

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: 3/31/2021		Analyst: MAS
Ethylbenzene	ND	0.0036		mg/m <sup>3</sup>	2	4/2/2021
Freon-113	ND	0.0063		mg/m <sup>3</sup>	2	4/2/2021
Freon-114	ND	0.029		mg/m <sup>3</sup>	2	4/2/2021
Heptane	ND	0.0034		mg/m <sup>3</sup>	2	4/2/2021
Hexachlorobutadiene	ND	0.0088		mg/m <sup>3</sup>	2	4/2/2021
Hexane	ND	0.0073		mg/m <sup>3</sup>	2	4/2/2021
Isopropyl Alcohol	0.14	0.010		mg/m <sup>3</sup>	2	4/2/2021
m,p-Xylene	ND	0.0072		mg/m <sup>3</sup>	2	4/2/2021
Methyl tert-butyl ether	ND	0.0030		mg/m <sup>3</sup>	2	4/2/2021
Methylene chloride	ND	0.029		mg/m <sup>3</sup>	2	4/2/2021
Naphthalene	ND	0.0043		mg/m <sup>3</sup>	2	4/2/2021
o-Xylene	ND	0.0036		mg/m <sup>3</sup>	2	4/2/2021
Propene	ND	0.014		mg/m <sup>3</sup>	2	4/2/2021
Styrene	ND	0.0035		mg/m <sup>3</sup>	2	4/2/2021
Tetrachloroethene	7.3	0.070		mg/m <sup>3</sup>	25	4/2/2021
Tetrahydrofuran	ND	0.0061		mg/m <sup>3</sup>	2	4/2/2021
Toluene	0.0044	0.0031		mg/m <sup>3</sup>	2	4/2/2021
trans-1,2-Dichloroethene	ND	0.0033		mg/m <sup>3</sup>	2	4/2/2021
trans-1,3-Dichloropropene	ND	0.0038		mg/m <sup>3</sup>	2	4/2/2021
Trichloroethene	0.16	0.0045		mg/m <sup>3</sup>	2	4/2/2021
Trichlorofluoromethane	ND	0.0047		mg/m <sup>3</sup>	2	4/2/2021
Vinyl acetate	ND	0.029		mg/m <sup>3</sup>	2	4/2/2021
Vinyl chloride	ND	0.0021		mg/m <sup>3</sup>	2	4/2/2021
Xylenes, Total	ND	0.011		mg/m <sup>3</sup>	2	4/2/2021

**Qualifiers:**  
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 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
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**Sample Receipt Checklist**

Client Name **HYDRODYNAMICS**

Date and Time Received: **3/29/2021 3:30:00 PM**

Work Order Number **21030974**

Received by: **EAA**

Checklist completed by: *Camy Brady* *3/29/21*  
Signature Date

Reviewed by: *A.A.* *3/30/2021*  
Initials Date

Matrix: Carrier name STAT Analysis

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels/containers? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Container or Temp Blank temperature in compliance? Yes  No  Temperature Ambient °C
- Water - VOA vials have zero headspace? No VOA vials submitted  Yes  No
- Water - Samples pH checked? Yes  No  Checked by: \_\_\_\_\_
- Water - Samples properly preserved? Yes  No  pH Adjusted? \_\_\_\_\_

Any No response must be detailed in the comments section below.

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Comments: *Sample dates were taken from sample containers.*

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Client / Person contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Response: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**STAT** Analysis Corporation

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June 24, 2021

Hydrodynamics Consultants, Inc.  
5403 Patton Drive  
Lisle, IL 60532

Telephone: (630) 724-0098  
Fax: (800) 881-2051

Analytical Report for STAT Work Order: 21060592 Revision 0

RE: Westwood Cleaners, 8731 W. North Avenue, Wauwatosa, WI

Dear Hydrodynamics Consultants, Inc.:

STAT Analysis received 8 samples for the referenced project on 6/17/2021 2:10:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAP standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Justice Kwateng  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples as received and tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

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**Client:** Hydrodynamics Consultants, Inc.**Project:** Westwood Cleaners, 8731 W. North Avenue, Wauwato**Work Order Sample Summary****Work Order:** 21060592 Revision 0

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<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
21060592-001A	SV1-4/4		6/16/2021 11:10:00 AM	6/17/2021
21060592-002A	SV2-4/4		6/16/2021 11:35:00 AM	6/17/2021
21060592-003A	SV3-4/4		6/16/2021 12:18:00 PM	6/17/2021
21060592-004A	SV4-4/4		6/16/2021 12:50:00 PM	6/17/2021
21060592-005A	SV5-4/4		6/16/2021 11:20:00 AM	6/17/2021
21060592-006A	SV6-4/4		6/16/2021 1:05:00 PM	6/17/2021
21060592-007A	SV7-4/4		6/16/2021 12:35:00 PM	6/17/2021
21060592-008A	SV3-4/4D		6/16/2021 12:50:00 PM	6/17/2021

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**CLIENT:** Hydrodynamics Consultants, Inc.  
**Project:** Westwood Cleaners, 8731 W. North Avenue, Wauwatosa, W  
**Work Order:** 21060592 Revision 0

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**CASE NARRATIVE**

TO-15 results that are reported in mg/m<sup>3</sup> are calculated based on a temperature of 25°C, atmospheric pressure of 760 mm Hg, and the molecular weight of the analyte.

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Date Reported: June 24, 2021

Date Printed: June 24, 2021

**ANALYTICAL RESULTS**

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV1-4/4

Work Order: 21060592 Revision 0

Collection Date: 6/16/2021 11:10:00 AM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 21060592-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: <b>6/17/2021</b>		Analyst: <b>MAS</b>
1,1,1-Trichloroethane	ND	0.0039		mg/m <sup>3</sup>	2	6/17/2021
1,1,2-Trichloroethane	ND	0.0039		mg/m <sup>3</sup>	2	6/17/2021
1,1-Dichloroethane	ND	0.0028		mg/m <sup>3</sup>	2	6/17/2021
1,1-Dichloroethene	ND	0.0028		mg/m <sup>3</sup>	2	6/17/2021
1,2,4-Trichlorobenzene	ND	0.0053		mg/m <sup>3</sup>	2	6/17/2021
1,2-Dibromoethane	ND	0.0053		mg/m <sup>3</sup>	2	6/17/2021
1,2-Dichlorobenzene	ND	0.0043		mg/m <sup>3</sup>	2	6/17/2021
1,2-Dichloroethane	ND	0.0028		mg/m <sup>3</sup>	2	6/17/2021
1,2-Dichloropropane	ND	0.0032		mg/m <sup>3</sup>	2	6/17/2021
1,4-Dichlorobenzene	ND	0.0043		mg/m <sup>3</sup>	2	6/17/2021
1,4-Dioxane	ND	0.0064		mg/m <sup>3</sup>	2	6/17/2021
2-Butanone	0.0057	0.0053		mg/m <sup>3</sup>	2	6/17/2021
Acetone	0.054	0.017	*	mg/m <sup>3</sup>	2	6/17/2021
Benzene	0.0040	0.0021		mg/m <sup>3</sup>	2	6/17/2021
Bromodichloromethane	ND	0.0046		mg/m <sup>3</sup>	2	6/17/2021
Bromoform	ND	0.019		mg/m <sup>3</sup>	2	6/17/2021
Bromomethane	ND	0.0068		mg/m <sup>3</sup>	2	6/17/2021
Carbon disulfide	ND	0.0022		mg/m <sup>3</sup>	2	6/17/2021
Carbon tetrachloride	ND	0.0046		mg/m <sup>3</sup>	2	6/17/2021
Chlorobenzene	ND	0.0032		mg/m <sup>3</sup>	2	6/17/2021
Chloroform	0.0063	0.0036		mg/m <sup>3</sup>	2	6/17/2021
cis-1,2-Dichloroethene	ND	0.0028		mg/m <sup>3</sup>	2	6/17/2021
cis-1,3-Dichloropropene	ND	0.0032		mg/m <sup>3</sup>	2	6/17/2021
Dibromochloromethane	ND	0.0061		mg/m <sup>3</sup>	2	6/17/2021
Dichlorodifluoromethane	ND	0.0036		mg/m <sup>3</sup>	2	6/17/2021
Ethylbenzene	0.013	0.0032		mg/m <sup>3</sup>	2	6/17/2021
Isopropyl Alcohol	1.9	0.11		mg/m <sup>3</sup>	25	6/17/2021
m,p-Xylene	0.045	0.0061		mg/m <sup>3</sup>	2	6/17/2021
Methyl tert-butyl ether	ND	0.0025		mg/m <sup>3</sup>	2	6/17/2021
Methylene chloride	ND	0.025		mg/m <sup>3</sup>	2	6/17/2021
Naphthalene	0.0050	0.0036		mg/m <sup>3</sup>	2	6/17/2021
o-Xylene	0.016	0.0032		mg/m <sup>3</sup>	2	6/17/2021
Styrene	ND	0.0032		mg/m <sup>3</sup>	2	6/17/2021
Tetrachloroethene	0.048	0.0050		mg/m <sup>3</sup>	2	6/17/2021
Toluene	0.059	0.0028		mg/m <sup>3</sup>	2	6/17/2021
trans-1,2-Dichloroethene	ND	0.0028		mg/m <sup>3</sup>	2	6/17/2021
trans-1,3-Dichloropropene	ND	0.0032		mg/m <sup>3</sup>	2	6/17/2021
Trichloroethene	ND	0.0039		mg/m <sup>3</sup>	2	6/17/2021

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

**Qualifiers:**

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded



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Date Reported: June 24, 2021

**ANALYTICAL RESULTS**

Date Printed: June 24, 2021

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV1-4/4

Work Order: 21060592 Revision 0

Collection Date: 6/16/2021 11:10:00 AM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 21060592-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: <b>6/17/2021</b>		Analyst: <b>MAS</b>
Trichlorofluoromethane	ND	0.0039		mg/m <sup>3</sup>	2	6/17/2021
Vinyl acetate	ND	0.025		mg/m <sup>3</sup>	2	6/17/2021
Vinyl chloride	ND	0.0018		mg/m <sup>3</sup>	2	6/17/2021
Xylenes, Total	0.062	0.0093		mg/m <sup>3</sup>	2	6/17/2021

**Qualifiers:**

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 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Date Reported: June 24, 2021

Date Printed: June 24, 2021

**ANALYTICAL RESULTS**

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV2-4/4

Work Order: 21060592 Revision 0

Collection Date: 6/16/2021 11:35:00 AM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 21060592-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: 6/17/2021		Analyst: MAS
1,1,1-Trichloroethane	ND	0.0040		mg/m <sup>3</sup>	2	6/17/2021
1,1,2-Trichloroethane	ND	0.0040		mg/m <sup>3</sup>	2	6/17/2021
1,1-Dichloroethane	ND	0.0029		mg/m <sup>3</sup>	2	6/17/2021
1,1-Dichloroethene	ND	0.0029		mg/m <sup>3</sup>	2	6/17/2021
1,2,4-Trichlorobenzene	ND	0.0055		mg/m <sup>3</sup>	2	6/17/2021
1,2-Dibromoethane	ND	0.0055		mg/m <sup>3</sup>	2	6/17/2021
1,2-Dichlorobenzene	ND	0.0044		mg/m <sup>3</sup>	2	6/17/2021
1,2-Dichloroethane	ND	0.0029		mg/m <sup>3</sup>	2	6/17/2021
1,2-Dichloropropane	ND	0.0033		mg/m <sup>3</sup>	2	6/17/2021
1,4-Dichlorobenzene	ND	0.0044		mg/m <sup>3</sup>	2	6/17/2021
1,4-Dioxane	ND	0.0066		mg/m <sup>3</sup>	2	6/17/2021
2-Butanone	0.0069	0.0055		mg/m <sup>3</sup>	2	6/17/2021
Acetone	0.073	0.018	*	mg/m <sup>3</sup>	2	6/17/2021
Benzene	0.0041	0.0022		mg/m <sup>3</sup>	2	6/17/2021
Bromodichloromethane	ND	0.0048		mg/m <sup>3</sup>	2	6/17/2021
Bromoform	ND	0.019		mg/m <sup>3</sup>	2	6/17/2021
Bromomethane	ND	0.0070		mg/m <sup>3</sup>	2	6/17/2021
Carbon disulfide	0.0039	0.0023		mg/m <sup>3</sup>	2	6/17/2021
Carbon tetrachloride	ND	0.0048		mg/m <sup>3</sup>	2	6/17/2021
Chlorobenzene	ND	0.0033		mg/m <sup>3</sup>	2	6/17/2021
Chloroform	0.015	0.0037		mg/m <sup>3</sup>	2	6/17/2021
cis-1,2-Dichloroethene	ND	0.0029		mg/m <sup>3</sup>	2	6/17/2021
cis-1,3-Dichloropropene	ND	0.0033		mg/m <sup>3</sup>	2	6/17/2021
Dibromochloromethane	ND	0.0062		mg/m <sup>3</sup>	2	6/17/2021
Dichlorodifluoromethane	ND	0.0037		mg/m <sup>3</sup>	2	6/17/2021
Ethylbenzene	0.011	0.0033		mg/m <sup>3</sup>	2	6/17/2021
Isopropyl Alcohol	0.41	0.0092		mg/m <sup>3</sup>	2	6/17/2021
m,p-Xylene	0.046	0.0062		mg/m <sup>3</sup>	2	6/17/2021
Methyl tert-butyl ether	ND	0.0026		mg/m <sup>3</sup>	2	6/17/2021
Methylene chloride	ND	0.025		mg/m <sup>3</sup>	2	6/17/2021
Naphthalene	0.0075	0.0037		mg/m <sup>3</sup>	2	6/17/2021
o-Xylene	0.017	0.0033		mg/m <sup>3</sup>	2	6/17/2021
Styrene	ND	0.0033		mg/m <sup>3</sup>	2	6/17/2021
Tetrachloroethene	0.068	0.0051		mg/m <sup>3</sup>	2	6/17/2021
Toluene	0.048	0.0029		mg/m <sup>3</sup>	2	6/17/2021
trans-1,2-Dichloroethene	ND	0.0029		mg/m <sup>3</sup>	2	6/17/2021
trans-1,3-Dichloropropene	ND	0.0033		mg/m <sup>3</sup>	2	6/17/2021
Trichloroethene	ND	0.0040		mg/m <sup>3</sup>	2	6/17/2021

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
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Date Reported: June 24, 2021

**ANALYTICAL RESULTS**

Date Printed: June 24, 2021

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV2-4/4

Work Order: 21060592 Revision 0

Collection Date: 6/16/2021 11:35:00 AM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 21060592-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: <b>6/17/2021</b>		Analyst: <b>MAS</b>
Trichlorofluoromethane	ND	0.0040		mg/m <sup>3</sup>	2	6/17/2021
Vinyl acetate	ND	0.026		mg/m <sup>3</sup>	2	6/17/2021
Vinyl chloride	ND	0.0018		mg/m <sup>3</sup>	2	6/17/2021
Xylenes, Total	0.063	0.0095		mg/m <sup>3</sup>	2	6/17/2021

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**STAT Analysis Corporation**

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: June 24, 2021

Date Printed: June 24, 2021

**ANALYTICAL RESULTS**

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV3-4/4

Work Order: 21060592 Revision 0

Collection Date: 6/16/2021 12:18:00 PM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 21060592-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: 6/17/2021		Analyst: MAS
1,1,1-Trichloroethane	ND	0.0044		mg/m <sup>3</sup>	2	6/17/2021
1,1,2-Trichloroethane	ND	0.0044		mg/m <sup>3</sup>	2	6/17/2021
1,1-Dichloroethane	ND	0.0032		mg/m <sup>3</sup>	2	6/17/2021
1,1-Dichloroethene	ND	0.0032		mg/m <sup>3</sup>	2	6/17/2021
1,2,4-Trichlorobenzene	ND	0.0060		mg/m <sup>3</sup>	2	6/17/2021
1,2-Dibromoethane	ND	0.0060		mg/m <sup>3</sup>	2	6/17/2021
1,2-Dichlorobenzene	ND	0.0048		mg/m <sup>3</sup>	2	6/17/2021
1,2-Dichloroethane	ND	0.0032		mg/m <sup>3</sup>	2	6/17/2021
1,2-Dichloropropane	ND	0.0036		mg/m <sup>3</sup>	2	6/17/2021
1,4-Dichlorobenzene	ND	0.0048		mg/m <sup>3</sup>	2	6/17/2021
1,4-Dioxane	ND	0.0072		mg/m <sup>3</sup>	2	6/17/2021
2-Butanone	ND	0.0060		mg/m <sup>3</sup>	2	6/17/2021
Acetone	0.040	0.019	*	mg/m <sup>3</sup>	2	6/17/2021
Benzene	0.0051	0.0024		mg/m <sup>3</sup>	2	6/17/2021
Bromodichloromethane	ND	0.0052		mg/m <sup>3</sup>	2	6/17/2021
Bromoform	ND	0.021		mg/m <sup>3</sup>	2	6/17/2021
Bromomethane	ND	0.0076		mg/m <sup>3</sup>	2	6/17/2021
Carbon disulfide	0.0031	0.0025		mg/m <sup>3</sup>	2	6/17/2021
Carbon tetrachloride	ND	0.0052		mg/m <sup>3</sup>	2	6/17/2021
Chlorobenzene	ND	0.0036		mg/m <sup>3</sup>	2	6/17/2021
Chloroform	ND	0.0040		mg/m <sup>3</sup>	2	6/17/2021
cis-1,2-Dichloroethene	ND	0.0032		mg/m <sup>3</sup>	2	6/17/2021
cis-1,3-Dichloropropene	ND	0.0036		mg/m <sup>3</sup>	2	6/17/2021
Dibromochloromethane	ND	0.0068		mg/m <sup>3</sup>	2	6/17/2021
Dichlorodifluoromethane	ND	0.0040		mg/m <sup>3</sup>	2	6/17/2021
Ethylbenzene	0.015	0.0036		mg/m <sup>3</sup>	2	6/17/2021
Isopropyl Alcohol	0.45	0.12		mg/m <sup>3</sup>	25	6/17/2021
m,p-Xylene	0.063	0.0068		mg/m <sup>3</sup>	2	6/17/2021
Methyl tert-butyl ether	ND	0.0028		mg/m <sup>3</sup>	2	6/17/2021
Methylene chloride	0.042	0.027		mg/m <sup>3</sup>	2	6/17/2021
Naphthalene	0.0075	0.0040		mg/m <sup>3</sup>	2	6/17/2021
o-Xylene	0.022	0.0036		mg/m <sup>3</sup>	2	6/17/2021
Styrene	ND	0.0036		mg/m <sup>3</sup>	2	6/17/2021
Tetrachloroethene	0.20	0.0056		mg/m <sup>3</sup>	2	6/17/2021
Toluene	0.070	0.0032		mg/m <sup>3</sup>	2	6/17/2021
trans-1,2-Dichloroethene	ND	0.0032		mg/m <sup>3</sup>	2	6/17/2021
trans-1,3-Dichloropropene	ND	0.0036		mg/m <sup>3</sup>	2	6/17/2021
Trichloroethene	0.0047	0.0044		mg/m <sup>3</sup>	2	6/17/2021

**Qualifiers:**  
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 HT - Sample received past holding time  
 \* - Non-accredited parameter

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 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: June 24, 2021

**ANALYTICAL RESULTS**

Date Printed: June 24, 2021

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV3-4/4

Work Order: 21060592 Revision 0

Collection Date: 6/16/2021 12:18:00 PM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 21060592-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: <b>6/17/2021</b>		Analyst: <b>MAS</b>
Trichlorofluoromethane	ND	0.0044		mg/m <sup>3</sup>	2	6/17/2021
Vinyl acetate	ND	0.028		mg/m <sup>3</sup>	2	6/17/2021
Vinyl chloride	ND	0.0020		mg/m <sup>3</sup>	2	6/17/2021
Xylenes, Total	0.085	0.010		mg/m <sup>3</sup>	2	6/17/2021

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 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
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 E - Value above quantitation range  
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Date Reported: June 24, 2021

Date Printed: June 24, 2021

**ANALYTICAL RESULTS**

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV4-4/4

Work Order: 21060592 Revision 0

Collection Date: 6/16/2021 12:50:00 PM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 21060592-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: 6/17/2021		Analyst: MAS
1,1,1-Trichloroethane	ND	0.0053		mg/m <sup>3</sup>	2	6/18/2021
1,1,2-Trichloroethane	ND	0.0053		mg/m <sup>3</sup>	2	6/18/2021
1,1-Dichloroethane	ND	0.0038		mg/m <sup>3</sup>	2	6/18/2021
1,1-Dichloroethene	ND	0.0038		mg/m <sup>3</sup>	2	6/18/2021
1,2,4-Trichlorobenzene	ND	0.0072		mg/m <sup>3</sup>	2	6/18/2021
1,2-Dibromoethane	ND	0.0072		mg/m <sup>3</sup>	2	6/18/2021
1,2-Dichlorobenzene	ND	0.0058		mg/m <sup>3</sup>	2	6/18/2021
1,2-Dichloroethane	ND	0.0038		mg/m <sup>3</sup>	2	6/18/2021
1,2-Dichloropropane	ND	0.0043		mg/m <sup>3</sup>	2	6/18/2021
1,4-Dichlorobenzene	ND	0.0058		mg/m <sup>3</sup>	2	6/18/2021
1,4-Dioxane	ND	0.0087		mg/m <sup>3</sup>	2	6/18/2021
2-Butanone	ND	0.0072		mg/m <sup>3</sup>	2	6/18/2021
Acetone	0.031	0.023	*	mg/m <sup>3</sup>	2	6/18/2021
Benzene	0.0031	0.0029		mg/m <sup>3</sup>	2	6/18/2021
Bromodichloromethane	ND	0.0062		mg/m <sup>3</sup>	2	6/18/2021
Bromoform	ND	0.025		mg/m <sup>3</sup>	2	6/18/2021
Bromomethane	ND	0.0091		mg/m <sup>3</sup>	2	6/18/2021
Carbon disulfide	ND	0.0030		mg/m <sup>3</sup>	2	6/18/2021
Carbon tetrachloride	ND	0.0062		mg/m <sup>3</sup>	2	6/18/2021
Chlorobenzene	ND	0.0043		mg/m <sup>3</sup>	2	6/18/2021
Chloroform	ND	0.0048		mg/m <sup>3</sup>	2	6/18/2021
cis-1,2-Dichloroethene	ND	0.0038		mg/m <sup>3</sup>	2	6/18/2021
cis-1,3-Dichloropropene	ND	0.0043		mg/m <sup>3</sup>	2	6/18/2021
Dibromochloromethane	ND	0.0082		mg/m <sup>3</sup>	2	6/18/2021
Dichlorodifluoromethane	ND	0.0048		mg/m <sup>3</sup>	2	6/18/2021
Ethylbenzene	0.0092	0.0043		mg/m <sup>3</sup>	2	6/18/2021
Isopropyl Alcohol	0.19	0.012		mg/m <sup>3</sup>	2	6/18/2021
m,p-Xylene	0.041	0.0082		mg/m <sup>3</sup>	2	6/18/2021
Methyl tert-butyl ether	ND	0.0034		mg/m <sup>3</sup>	2	6/18/2021
Methylene chloride	ND	0.033		mg/m <sup>3</sup>	2	6/18/2021
Naphthalene	0.0073	0.0048		mg/m <sup>3</sup>	2	6/18/2021
o-Xylene	0.014	0.0043		mg/m <sup>3</sup>	2	6/18/2021
Styrene	ND	0.0043		mg/m <sup>3</sup>	2	6/18/2021
Tetrachloroethene	0.086	0.0067		mg/m <sup>3</sup>	2	6/18/2021
Toluene	0.038	0.0038		mg/m <sup>3</sup>	2	6/18/2021
trans-1,2-Dichloroethene	ND	0.0038		mg/m <sup>3</sup>	2	6/18/2021
trans-1,3-Dichloropropene	ND	0.0043		mg/m <sup>3</sup>	2	6/18/2021
Trichloroethene	ND	0.0053		mg/m <sup>3</sup>	2	6/18/2021

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 HT - Sample received past holding time  
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Date Reported: June 24, 2021

**ANALYTICAL RESULTS**

Date Printed: June 24, 2021

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV4-4/4

Work Order: 21060592 Revision 0

Collection Date: 6/16/2021 12:50:00 PM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 21060592-004

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: <b>6/17/2021</b>		Analyst: <b>MAS</b>
Trichlorofluoromethane	ND	0.0053		mg/m <sup>3</sup>	2	6/18/2021
Vinyl acetate	ND	0.034		mg/m <sup>3</sup>	2	6/18/2021
Vinyl chloride	ND	0.0024		mg/m <sup>3</sup>	2	6/18/2021
Xylenes, Total	0.056	0.012		mg/m <sup>3</sup>	2	6/18/2021

**Qualifiers:**

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 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Date Reported: June 24, 2021

Date Printed: June 24, 2021

**ANALYTICAL RESULTS**

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV5-4/4

Work Order: 21060592 Revision 0

Collection Date: 6/16/2021 11:20:00 AM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 21060592-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: 6/17/2021		Analyst: MAS
1,1,1-Trichloroethane	ND	0.0033		mg/m <sup>3</sup>	2	6/18/2021
1,1,2-Trichloroethane	ND	0.0033		mg/m <sup>3</sup>	2	6/18/2021
1,1-Dichloroethane	ND	0.0024		mg/m <sup>3</sup>	2	6/18/2021
1,1-Dichloroethene	ND	0.0024		mg/m <sup>3</sup>	2	6/18/2021
1,2,4-Trichlorobenzene	ND	0.0045		mg/m <sup>3</sup>	2	6/18/2021
1,2-Dibromoethane	ND	0.0045		mg/m <sup>3</sup>	2	6/18/2021
1,2-Dichlorobenzene	ND	0.0036		mg/m <sup>3</sup>	2	6/18/2021
1,2-Dichloroethane	ND	0.0024		mg/m <sup>3</sup>	2	6/18/2021
1,2-Dichloropropane	ND	0.0027		mg/m <sup>3</sup>	2	6/18/2021
1,4-Dichlorobenzene	ND	0.0036		mg/m <sup>3</sup>	2	6/18/2021
1,4-Dioxane	ND	0.0054		mg/m <sup>3</sup>	2	6/18/2021
2-Butanone	ND	0.0045		mg/m <sup>3</sup>	2	6/18/2021
Acetone	0.036	0.014	*	mg/m <sup>3</sup>	2	6/18/2021
Benzene	0.0031	0.0018		mg/m <sup>3</sup>	2	6/18/2021
Bromodichloromethane	ND	0.0039		mg/m <sup>3</sup>	2	6/18/2021
Bromoform	ND	0.015		mg/m <sup>3</sup>	2	6/18/2021
Bromomethane	ND	0.0057		mg/m <sup>3</sup>	2	6/18/2021
Carbon disulfide	ND	0.0019		mg/m <sup>3</sup>	2	6/18/2021
Carbon tetrachloride	ND	0.0039		mg/m <sup>3</sup>	2	6/18/2021
Chlorobenzene	ND	0.0027		mg/m <sup>3</sup>	2	6/18/2021
Chloroform	0.012	0.0030		mg/m <sup>3</sup>	2	6/18/2021
cis-1,2-Dichloroethene	ND	0.0024		mg/m <sup>3</sup>	2	6/18/2021
cis-1,3-Dichloropropene	ND	0.0027		mg/m <sup>3</sup>	2	6/18/2021
Dibromochloromethane	ND	0.0051		mg/m <sup>3</sup>	2	6/18/2021
Dichlorodifluoromethane	0.0032	0.0030		mg/m <sup>3</sup>	2	6/18/2021
Ethylbenzene	0.0091	0.0027		mg/m <sup>3</sup>	2	6/18/2021
Isopropyl Alcohol	0.36	0.093		mg/m <sup>3</sup>	25	6/18/2021
m,p-Xylene	0.038	0.0051		mg/m <sup>3</sup>	2	6/18/2021
Methyl tert-butyl ether	ND	0.0021		mg/m <sup>3</sup>	2	6/18/2021
Methylene chloride	ND	0.021		mg/m <sup>3</sup>	2	6/18/2021
Naphthalene	0.0062	0.0030		mg/m <sup>3</sup>	2	6/18/2021
o-Xylene	0.013	0.0027		mg/m <sup>3</sup>	2	6/18/2021
Styrene	ND	0.0027		mg/m <sup>3</sup>	2	6/18/2021
Tetrachloroethene	0.097	0.0042		mg/m <sup>3</sup>	2	6/18/2021
Toluene	0.038	0.0024		mg/m <sup>3</sup>	2	6/18/2021
trans-1,2-Dichloroethene	ND	0.0024		mg/m <sup>3</sup>	2	6/18/2021
trans-1,3-Dichloropropene	ND	0.0027		mg/m <sup>3</sup>	2	6/18/2021
Trichloroethene	ND	0.0033		mg/m <sup>3</sup>	2	6/18/2021

**Qualifiers:**

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 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

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 E - Value above quantitation range  
 H - Holding time exceeded



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Date Reported: June 24, 2021

**ANALYTICAL RESULTS**

Date Printed: June 24, 2021

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV5-4/4

Work Order: 21060592 Revision 0

Collection Date: 6/16/2021 11:20:00 AM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 21060592-005

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: <b>6/17/2021</b>		Analyst: <b>MAS</b>
Trichlorofluoromethane	ND	0.0033		mg/m <sup>3</sup>	2	6/18/2021
Vinyl acetate	ND	0.021		mg/m <sup>3</sup>	2	6/18/2021
Vinyl chloride	ND	0.0015		mg/m <sup>3</sup>	2	6/18/2021
Xylenes, Total	0.051	0.0077		mg/m <sup>3</sup>	2	6/18/2021

**Qualifiers:**

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 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Date Reported: June 24, 2021

Date Printed: June 24, 2021

**ANALYTICAL RESULTS**

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV6-4/4

Work Order: 21060592 Revision 0

Collection Date: 6/16/2021 1:05:00 PM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 21060592-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: 6/17/2021		Analyst: MAS
1,1,1-Trichloroethane	ND	0.0033		mg/m <sup>3</sup>	2	6/18/2021
1,1,2-Trichloroethane	ND	0.0033		mg/m <sup>3</sup>	2	6/18/2021
1,1-Dichloroethane	ND	0.0024		mg/m <sup>3</sup>	2	6/18/2021
1,1-Dichloroethene	ND	0.0024		mg/m <sup>3</sup>	2	6/18/2021
1,2,4-Trichlorobenzene	ND	0.0045		mg/m <sup>3</sup>	2	6/18/2021
1,2-Dibromoethane	ND	0.0045		mg/m <sup>3</sup>	2	6/18/2021
1,2-Dichlorobenzene	ND	0.0036		mg/m <sup>3</sup>	2	6/18/2021
1,2-Dichloroethane	ND	0.0024		mg/m <sup>3</sup>	2	6/18/2021
1,2-Dichloropropane	ND	0.0027		mg/m <sup>3</sup>	2	6/18/2021
1,4-Dichlorobenzene	ND	0.0036		mg/m <sup>3</sup>	2	6/18/2021
1,4-Dioxane	ND	0.0054		mg/m <sup>3</sup>	2	6/18/2021
2-Butanone	ND	0.0045		mg/m <sup>3</sup>	2	6/18/2021
Acetone	0.11	0.014	*	mg/m <sup>3</sup>	2	6/18/2021
Benzene	ND	0.0018		mg/m <sup>3</sup>	2	6/18/2021
Bromodichloromethane	ND	0.0039		mg/m <sup>3</sup>	2	6/18/2021
Bromoform	ND	0.016		mg/m <sup>3</sup>	2	6/18/2021
Bromomethane	ND	0.0057		mg/m <sup>3</sup>	2	6/18/2021
Carbon disulfide	0.0020	0.0019		mg/m <sup>3</sup>	2	6/18/2021
Carbon tetrachloride	ND	0.0039		mg/m <sup>3</sup>	2	6/18/2021
Chlorobenzene	ND	0.0027		mg/m <sup>3</sup>	2	6/18/2021
Chloroform	ND	0.0030		mg/m <sup>3</sup>	2	6/18/2021
cis-1,2-Dichloroethene	ND	0.0024		mg/m <sup>3</sup>	2	6/18/2021
cis-1,3-Dichloropropene	ND	0.0027		mg/m <sup>3</sup>	2	6/18/2021
Dibromochloromethane	ND	0.0051		mg/m <sup>3</sup>	2	6/18/2021
Dichlorodifluoromethane	ND	0.0030		mg/m <sup>3</sup>	2	6/18/2021
Ethylbenzene	0.0034	0.0027		mg/m <sup>3</sup>	2	6/18/2021
Isopropyl Alcohol	0.20	0.0075		mg/m <sup>3</sup>	2	6/18/2021
m,p-Xylene	0.014	0.0051		mg/m <sup>3</sup>	2	6/18/2021
Methyl tert-butyl ether	ND	0.0021		mg/m <sup>3</sup>	2	6/18/2021
Methylene chloride	ND	0.021		mg/m <sup>3</sup>	2	6/18/2021
Naphthalene	0.0039	0.0030		mg/m <sup>3</sup>	2	6/18/2021
o-Xylene	0.0054	0.0027		mg/m <sup>3</sup>	2	6/18/2021
Styrene	ND	0.0027		mg/m <sup>3</sup>	2	6/18/2021
Tetrachloroethene	0.012	0.0042		mg/m <sup>3</sup>	2	6/18/2021
Toluene	0.015	0.0024		mg/m <sup>3</sup>	2	6/18/2021
trans-1,2-Dichloroethene	ND	0.0024		mg/m <sup>3</sup>	2	6/18/2021
trans-1,3-Dichloropropene	ND	0.0027		mg/m <sup>3</sup>	2	6/18/2021
Trichloroethene	ND	0.0033		mg/m <sup>3</sup>	2	6/18/2021

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: June 24, 2021

**ANALYTICAL RESULTS**

Date Printed: June 24, 2021

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV6-4/4

Work Order: 21060592 Revision 0

Collection Date: 6/16/2021 1:05:00 PM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 21060592-006

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: <b>6/17/2021</b>		Analyst: <b>MAS</b>
Trichlorofluoromethane	ND	0.0033		mg/m <sup>3</sup>	2	6/18/2021
Vinyl acetate	ND	0.021		mg/m <sup>3</sup>	2	6/18/2021
Vinyl chloride	ND	0.0015		mg/m <sup>3</sup>	2	6/18/2021
Xylenes, Total	0.019	0.0078		mg/m <sup>3</sup>	2	6/18/2021

**Qualifiers:**

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 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: June 24, 2021

Date Printed: June 24, 2021

**ANALYTICAL RESULTS**

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV7-4/4

Work Order: 21060592 Revision 0

Collection Date: 6/16/2021 12:35:00 PM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 21060592-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: 6/17/2021		Analyst: MAS
1,1,1-Trichloroethane	ND	0.0035		mg/m <sup>3</sup>	2	6/18/2021
1,1,2-Trichloroethane	ND	0.0035		mg/m <sup>3</sup>	2	6/18/2021
1,1-Dichloroethane	ND	0.0025		mg/m <sup>3</sup>	2	6/18/2021
1,1-Dichloroethene	ND	0.0025		mg/m <sup>3</sup>	2	6/18/2021
1,2,4-Trichlorobenzene	ND	0.0048		mg/m <sup>3</sup>	2	6/18/2021
1,2-Dibromoethane	ND	0.0048		mg/m <sup>3</sup>	2	6/18/2021
1,2-Dichlorobenzene	ND	0.0038		mg/m <sup>3</sup>	2	6/18/2021
1,2-Dichloroethane	ND	0.0025		mg/m <sup>3</sup>	2	6/18/2021
1,2-Dichloropropane	ND	0.0029		mg/m <sup>3</sup>	2	6/18/2021
1,4-Dichlorobenzene	ND	0.0038		mg/m <sup>3</sup>	2	6/18/2021
1,4-Dioxane	ND	0.0057		mg/m <sup>3</sup>	2	6/18/2021
2-Butanone	ND	0.0048		mg/m <sup>3</sup>	2	6/18/2021
Acetone	0.045	0.015	*	mg/m <sup>3</sup>	2	6/18/2021
Benzene	0.0034	0.0019		mg/m <sup>3</sup>	2	6/18/2021
Bromodichloromethane	ND	0.0041		mg/m <sup>3</sup>	2	6/18/2021
Bromoform	ND	0.017		mg/m <sup>3</sup>	2	6/18/2021
Bromomethane	ND	0.0060		mg/m <sup>3</sup>	2	6/18/2021
Carbon disulfide	ND	0.0020		mg/m <sup>3</sup>	2	6/18/2021
Carbon tetrachloride	ND	0.0041		mg/m <sup>3</sup>	2	6/18/2021
Chlorobenzene	ND	0.0029		mg/m <sup>3</sup>	2	6/18/2021
Chloroform	ND	0.0032		mg/m <sup>3</sup>	2	6/18/2021
cis-1,2-Dichloroethene	0.014	0.0025		mg/m <sup>3</sup>	2	6/18/2021
cis-1,3-Dichloropropene	ND	0.0029		mg/m <sup>3</sup>	2	6/18/2021
Dibromochloromethane	ND	0.0054		mg/m <sup>3</sup>	2	6/18/2021
Dichlorodifluoromethane	ND	0.0032		mg/m <sup>3</sup>	2	6/18/2021
Ethylbenzene	0.012	0.0029		mg/m <sup>3</sup>	2	6/18/2021
Isopropyl Alcohol	0.39	0.099		mg/m <sup>3</sup>	25	6/18/2021
m,p-Xylene	0.051	0.0054		mg/m <sup>3</sup>	2	6/18/2021
Methyl tert-butyl ether	ND	0.0022		mg/m <sup>3</sup>	2	6/18/2021
Methylene chloride	ND	0.022		mg/m <sup>3</sup>	2	6/18/2021
Naphthalene	0.0090	0.0032		mg/m <sup>3</sup>	2	6/18/2021
o-Xylene	0.018	0.0029		mg/m <sup>3</sup>	2	6/18/2021
Styrene	ND	0.0029		mg/m <sup>3</sup>	2	6/18/2021
Tetrachloroethene	30	1.1		mg/m <sup>3</sup>	500	6/18/2021
Toluene	0.047	0.0025		mg/m <sup>3</sup>	2	6/18/2021
trans-1,2-Dichloroethene	ND	0.0025		mg/m <sup>3</sup>	2	6/18/2021
trans-1,3-Dichloropropene	ND	0.0029		mg/m <sup>3</sup>	2	6/18/2021
Trichloroethene	0.35	0.0035		mg/m <sup>3</sup>	2	6/18/2021

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: June 24, 2021

**ANALYTICAL RESULTS**

Date Printed: June 24, 2021

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV7-4/4

Work Order: 21060592 Revision 0

Collection Date: 6/16/2021 12:35:00 PM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 21060592-007

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: <b>6/17/2021</b>		Analyst: <b>MAS</b>
Trichlorofluoromethane	ND	0.0035		mg/m <sup>3</sup>	2	6/18/2021
Vinyl acetate	ND	0.022		mg/m <sup>3</sup>	2	6/18/2021
Vinyl chloride	ND	0.0016		mg/m <sup>3</sup>	2	6/18/2021
Xylenes, Total	0.069	0.0083		mg/m <sup>3</sup>	2	6/18/2021

**Qualifiers:**

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 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Date Reported: June 24, 2021

Date Printed: June 24, 2021

**ANALYTICAL RESULTS**

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV3-4/4D

Work Order: 21060592 Revision 0

Collection Date: 6/16/2021 12:50:00 PM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 21060592-008

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds in Air by GC/MS</b>		<b>TO-15</b>		Prep Date: 6/17/2021		Analyst: MAS
1,1,1-Trichloroethane	ND	0.0040		mg/m <sup>3</sup>	2	6/18/2021
1,1,2-Trichloroethane	ND	0.0040		mg/m <sup>3</sup>	2	6/18/2021
1,1-Dichloroethane	ND	0.0029		mg/m <sup>3</sup>	2	6/18/2021
1,1-Dichloroethene	ND	0.0029		mg/m <sup>3</sup>	2	6/18/2021
1,2,4-Trichlorobenzene	ND	0.0055		mg/m <sup>3</sup>	2	6/18/2021
1,2-Dibromoethane	ND	0.0055		mg/m <sup>3</sup>	2	6/18/2021
1,2-Dichlorobenzene	ND	0.0044		mg/m <sup>3</sup>	2	6/18/2021
1,2-Dichloroethane	ND	0.0029		mg/m <sup>3</sup>	2	6/18/2021
1,2-Dichloropropane	ND	0.0033		mg/m <sup>3</sup>	2	6/18/2021
1,4-Dichlorobenzene	ND	0.0044		mg/m <sup>3</sup>	2	6/18/2021
1,4-Dioxane	ND	0.0066		mg/m <sup>3</sup>	2	6/18/2021
2-Butanone	ND	0.0055		mg/m <sup>3</sup>	2	6/18/2021
Acetone	0.047	0.018	*	mg/m <sup>3</sup>	2	6/18/2021
Benzene	0.0029	0.0022		mg/m <sup>3</sup>	2	6/18/2021
Bromodichloromethane	ND	0.0048		mg/m <sup>3</sup>	2	6/18/2021
Bromoform	ND	0.019		mg/m <sup>3</sup>	2	6/18/2021
Bromomethane	ND	0.0070		mg/m <sup>3</sup>	2	6/18/2021
Carbon disulfide	ND	0.0023		mg/m <sup>3</sup>	2	6/18/2021
Carbon tetrachloride	ND	0.0048		mg/m <sup>3</sup>	2	6/18/2021
Chlorobenzene	ND	0.0033		mg/m <sup>3</sup>	2	6/18/2021
Chloroform	ND	0.0037		mg/m <sup>3</sup>	2	6/18/2021
cis-1,2-Dichloroethene	ND	0.0029		mg/m <sup>3</sup>	2	6/18/2021
cis-1,3-Dichloropropene	ND	0.0033		mg/m <sup>3</sup>	2	6/18/2021
Dibromochloromethane	ND	0.0062		mg/m <sup>3</sup>	2	6/18/2021
Dichlorodifluoromethane	ND	0.0037		mg/m <sup>3</sup>	2	6/18/2021
Ethylbenzene	0.0081	0.0033		mg/m <sup>3</sup>	2	6/18/2021
Isopropyl Alcohol	0.82	0.11		mg/m <sup>3</sup>	25	6/18/2021
m,p-Xylene	0.035	0.0062		mg/m <sup>3</sup>	2	6/18/2021
Methyl tert-butyl ether	ND	0.0026		mg/m <sup>3</sup>	2	6/18/2021
Methylene chloride	0.26	0.025		mg/m <sup>3</sup>	2	6/18/2021
Naphthalene	0.0063	0.0037		mg/m <sup>3</sup>	2	6/18/2021
o-Xylene	0.013	0.0033		mg/m <sup>3</sup>	2	6/18/2021
Styrene	ND	0.0033		mg/m <sup>3</sup>	2	6/18/2021
Tetrachloroethene	0.20	0.0051		mg/m <sup>3</sup>	2	6/18/2021
Toluene	0.035	0.0029		mg/m <sup>3</sup>	2	6/18/2021
trans-1,2-Dichloroethene	ND	0.0029		mg/m <sup>3</sup>	2	6/18/2021
trans-1,3-Dichloropropene	ND	0.0033		mg/m <sup>3</sup>	2	6/18/2021
Trichloroethene	0.0045	0.0040		mg/m <sup>3</sup>	2	6/18/2021

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

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Date Reported: June 24, 2021

**ANALYTICAL RESULTS**

Date Printed: June 24, 2021

Client: Hydrodynamics Consultants, Inc.

Client Sample ID: SV3-4/4D

Work Order: 21060592 Revision 0

Collection Date: 6/16/2021 12:50:00 PM

Project: Westwood Cleaners, 8731 W. North Avenue, Wau

Matrix: Air

Lab ID: 21060592-008

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Volatile Organic Compounds in Air by GC/MS		TO-15		Prep Date: 6/17/2021		Analyst: MAS
Trichlorofluoromethane	ND	0.0040		mg/m <sup>3</sup>	2	6/18/2021
Vinyl acetate	ND	0.026		mg/m <sup>3</sup>	2	6/18/2021
Vinyl chloride	ND	0.0018		mg/m <sup>3</sup>	2	6/18/2021
Xylenes, Total	0.048	0.0095		mg/m <sup>3</sup>	2	6/18/2021

**Qualifiers:**  
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 \* - Non-accredited parameter

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 E - Value above quantitation range  
 H - Holding time exceeded





**Sample Receipt Checklist**

Client Name **HYDRODYNAMICS**

Date and Time Received: **6/17/2021 2:10:00 PM**

Work Order Number **21060592**

Received by: **EAA**

Checklist completed by: EL 6/17/21  
Signature Date

Reviewed by: EA 6/22/2021  
Initials Date

Matrix: Carrier name STAT Analysis

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels/containers? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Container or Temp Blank temperature in compliance? Yes  No  Temperature Ambient °C
- Water - VOA vials have zero headspace? No VOA vials submitted Yes  No
- Water - Samples pH checked? Yes  No  Checked by: \_\_\_\_\_
- Water - Samples properly preserved? Yes  No  pH Adjusted? \_\_\_\_\_

Any No response must be detailed in the comments section below.

-----

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Client / Person contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Response: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**STAT** Analysis Corporation

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June 24, 2021

Hydrodynamics Consultants, Inc.  
5403 Patton Drive  
Lisle, IL 60532

Telephone: (630) 724-0098  
Fax: (800) 881-2051

Analytical Report for STAT Work Order: 21060594 Revision 0

RE: Westwood Cleaners, 8731 West North Ave., Wauwatosa, WI 53226

Dear Hydrodynamics Consultants, Inc.:

STAT Analysis received 11 samples for the referenced project on 6/17/2021 2:10:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements specified in WI DNR Chapter NR 149 (Certification Number 399099910). Analyses were performed in accordance with methods as referenced on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. A listing of accredited methods/parameters can also be provided.

For sample results requiring adjustment for dilutions, the detection and reporting limits are adjusted for the corresponding dilution factor. Analytical results expressed on a dry weight basis have units of mg/Kg-dry or  $\mu\text{g}/\text{Kg-dry}$  on the analytical report. Corresponding reporting limits are adjusted for dry weight.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Justice Kwateng  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples as received and tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

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**Client:** Hydrodynamics Consultants, Inc.**Project:** Westwood Cleaners, 8731 West North Ave., Wauwatos**Work Order Sample Summary****Work Order:** 21060594 Revision 0

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Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
21060594-001A	MW 1-4/4		6/16/2021 11:30:00 AM	6/17/2021
21060594-002A	MW 2-4/4		6/16/2021 11:37:00 AM	6/17/2021
21060594-003A	MW 3-4/4		6/16/2021 11:44:00 AM	6/17/2021
21060594-004A	MW 4-4/4		6/16/2021 11:50:00 AM	6/17/2021
21060594-005A	MW 5-4/4		6/16/2021 11:56:00 AM	6/17/2021
21060594-006A	MW 6-4/4		6/16/2021 12:03:00 PM	6/17/2021
21060594-007A	MW 6-4/4-D		6/16/2021 12:06:00 PM	6/17/2021
21060594-008A	MW 7-4/4		6/16/2021 12:13:00 PM	6/17/2021
21060594-009A	MW 8-4/4		6/16/2021 12:20:00 PM	6/17/2021
21060594-010A	MW 9-4/4		6/16/2021 12:28:00 PM	6/17/2021
21060594-011A	Trip Blank		6/16/2021 8:35:00 AM	6/17/2021

**STAT Analysis Corporation**

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Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: June 24, 2021

**ANALYTICAL RESULTS**

Date Printed: June 24, 2021

CLIENT: Hydrodynamics Consultants, Inc.

Client Sample ID: MW 1-4/4

Work Order: 21060594 Revision 0

Collection Date: 6/16/2021 11:30:00 AM

Project: Westwood Cleaners, 8731 West North Ave., Wauwato

Matrix: AQUEOUS

Lab ID: 21060594-001

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS****SW8260B (SW5030B)**

Prep Date:

Analyst: ERP

Acetone	ND	0.020	0.0031		mg/L	1	6/22/2021
Benzene	ND	0.0050	0.0002		mg/L	1	6/22/2021
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	6/22/2021
Bromoform	ND	0.0010	0.0003		mg/L	1	6/22/2021
Bromomethane	ND	0.0050	0.002		mg/L	1	6/22/2021
2-Butanone	ND	0.020	0.0016		mg/L	1	6/22/2021
Carbon disulfide	ND	0.010	0.0003		mg/L	1	6/22/2021
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	6/22/2021
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	6/22/2021
Chloroethane	ND	0.010	0.0005		mg/L	1	6/22/2021
Chloroform	ND	0.0010	0.0001		mg/L	1	6/22/2021
Chloromethane	ND	0.010	0.0003		mg/L	1	6/22/2021
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	6/22/2021
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	6/22/2021
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	6/22/2021
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	6/22/2021
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	6/22/2021
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	6/22/2021
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	6/22/2021
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	6/22/2021
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	6/22/2021
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	6/22/2021
2-Hexanone	ND	0.020	0.0002		mg/L	1	6/22/2021
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	6/22/2021
Methylene chloride	ND	0.0050	0.0002		mg/L	1	6/22/2021
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	6/22/2021
Styrene	ND	0.0050	0.0003		mg/L	1	6/22/2021
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	6/22/2021
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	6/22/2021
Toluene	ND	0.0050	0.0004		mg/L	1	6/22/2021
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	6/22/2021
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	6/22/2021
Trichloroethene	ND	0.0050	0.0003		mg/L	1	6/22/2021
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	6/22/2021
Xylenes, Total	ND	0.015	0.001		mg/L	1	6/22/2021

ND - Not Detected at the LOD

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

**Qualifiers:**

J - Analyte detected below LOQ

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: June 24, 2021

Date Printed: June 24, 2021

**ANALYTICAL RESULTS**

CLIENT: Hydrodynamics Consultants, Inc.

Work Order: 21060594 Revision 0

Project: Westwood Cleaners, 8731 West North Ave., Wauwato

Lab ID: 21060594-002

Client Sample ID: MW 2-4/4

Collection Date: 6/16/2021 11:37:00 AM

Matrix: AQUEOUS

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>							
		<b>SW8260B (SW5030B)</b>					
				Prep Date:			Analyst: ERP
Acetone	ND	0.020	0.0031		mg/L	1	6/22/2021
Benzene	ND	0.0050	0.0002		mg/L	1	6/22/2021
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	6/22/2021
Bromoform	ND	0.0010	0.0003		mg/L	1	6/22/2021
Bromomethane	ND	0.0050	0.002		mg/L	1	6/22/2021
2-Butanone	ND	0.020	0.0016		mg/L	1	6/22/2021
Carbon disulfide	ND	0.010	0.0003		mg/L	1	6/22/2021
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	6/22/2021
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	6/22/2021
Chloroethane	ND	0.010	0.0005		mg/L	1	6/22/2021
Chloroform	ND	0.0010	0.0001		mg/L	1	6/22/2021
Chloromethane	ND	0.010	0.0003		mg/L	1	6/22/2021
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	6/22/2021
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	6/22/2021
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	6/22/2021
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	6/22/2021
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	6/22/2021
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	6/22/2021
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	6/22/2021
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	6/22/2021
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	6/22/2021
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	6/22/2021
2-Hexanone	ND	0.020	0.0002		mg/L	1	6/22/2021
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	6/22/2021
Methylene chloride	ND	0.0050	0.0002		mg/L	1	6/22/2021
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	6/22/2021
Styrene	ND	0.0050	0.0003		mg/L	1	6/22/2021
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	6/22/2021
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	6/22/2021
Toluene	ND	0.0050	0.0004		mg/L	1	6/22/2021
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	6/22/2021
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	6/22/2021
Trichloroethene	ND	0.0050	0.0003		mg/L	1	6/22/2021
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	6/22/2021
Xylenes, Total	ND	0.015	0.001		mg/L	1	6/22/2021

**Qualifiers:**

ND - Not Detected at the LOD

J - Analyte detected below LOQ

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: June 24, 2021

Date Printed: June 24, 2021

**ANALYTICAL RESULTS**

CLIENT: Hydrodynamics Consultants, Inc.

Work Order: 21060594 Revision 0

Project: Westwood Cleaners, 8731 West North Ave., Wauwato

Lab ID: 21060594-003

Client Sample ID: MW 3-4/4

Collection Date: 6/16/2021 11:44:00 AM

Matrix: AQUEOUS

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>							
		<b>SW8260B (SW5030B)</b>					
							Prep Date:
							Analyst: ERP
Acetone	ND	0.020	0.0031		mg/L	1	6/22/2021
Benzene	ND	0.0050	0.0002		mg/L	1	6/22/2021
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	6/22/2021
Bromoform	ND	0.0010	0.0003		mg/L	1	6/22/2021
Bromomethane	ND	0.0050	0.002		mg/L	1	6/22/2021
2-Butanone	ND	0.020	0.0016		mg/L	1	6/22/2021
Carbon disulfide	ND	0.010	0.0003		mg/L	1	6/22/2021
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	6/22/2021
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	6/22/2021
Chloroethane	ND	0.010	0.0005		mg/L	1	6/22/2021
Chloroform	ND	0.0010	0.0001		mg/L	1	6/22/2021
Chloromethane	ND	0.010	0.0003		mg/L	1	6/22/2021
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	6/22/2021
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	6/22/2021
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	6/22/2021
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	6/22/2021
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	6/22/2021
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	6/22/2021
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	6/22/2021
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	6/22/2021
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	6/22/2021
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	6/22/2021
2-Hexanone	ND	0.020	0.0002		mg/L	1	6/22/2021
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	6/22/2021
Methylene chloride	ND	0.0050	0.0002		mg/L	1	6/22/2021
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	6/22/2021
Styrene	ND	0.0050	0.0003		mg/L	1	6/22/2021
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	6/22/2021
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	6/22/2021
Toluene	ND	0.0050	0.0004		mg/L	1	6/22/2021
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	6/22/2021
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	6/22/2021
Trichloroethene	ND	0.0050	0.0003		mg/L	1	6/22/2021
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	6/22/2021
Xylenes, Total	ND	0.015	0.001		mg/L	1	6/22/2021

**Qualifiers:**

ND - Not Detected at the LOD

J - Analyte detected below LOQ

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: June 24, 2021

Date Printed: June 24, 2021

**ANALYTICAL RESULTS**

CLIENT: Hydrodynamics Consultants, Inc.

Work Order: 21060594 Revision 0

Project: Westwood Cleaners, 8731 West North Ave., Wauwato

Lab ID: 21060594-004

Client Sample ID: MW 4-4/4

Collection Date: 6/16/2021 11:50:00 AM

Matrix: AQUEOUS

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>							
		<b>SW8260B (SW5030B)</b>					
				Prep Date:			Analyst: ERP
Acetone	ND	0.020	0.0031		mg/L	1	6/22/2021
Benzene	ND	0.0050	0.0002		mg/L	1	6/22/2021
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	6/22/2021
Bromoform	ND	0.0010	0.0003		mg/L	1	6/22/2021
Bromomethane	ND	0.0050	0.002		mg/L	1	6/22/2021
2-Butanone	ND	0.020	0.0016		mg/L	1	6/22/2021
Carbon disulfide	ND	0.010	0.0003		mg/L	1	6/22/2021
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	6/22/2021
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	6/22/2021
Chloroethane	ND	0.010	0.0005		mg/L	1	6/22/2021
Chloroform	ND	0.0010	0.0001		mg/L	1	6/22/2021
Chloromethane	ND	0.010	0.0003		mg/L	1	6/22/2021
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	6/22/2021
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	6/22/2021
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	6/22/2021
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	6/22/2021
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	6/22/2021
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	6/22/2021
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	6/22/2021
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	6/22/2021
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	6/22/2021
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	6/22/2021
2-Hexanone	ND	0.020	0.0002		mg/L	1	6/22/2021
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	6/22/2021
Methylene chloride	ND	0.0050	0.0002		mg/L	1	6/22/2021
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	6/22/2021
Styrene	ND	0.0050	0.0003		mg/L	1	6/22/2021
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	6/22/2021
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	6/22/2021
Toluene	ND	0.0050	0.0004		mg/L	1	6/22/2021
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	6/22/2021
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	6/22/2021
Trichloroethene	ND	0.0050	0.0003		mg/L	1	6/22/2021
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	6/22/2021
Xylenes, Total	ND	0.015	0.001		mg/L	1	6/22/2021

**Qualifiers:**

ND - Not Detected at the LOD

J - Analyte detected below LOQ

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: June 24, 2021

**ANALYTICAL RESULTS**

Date Printed: June 24, 2021

CLIENT: Hydrodynamics Consultants, Inc.

Client Sample ID: MW 5-4/4

Work Order: 21060594 Revision 0

Collection Date: 6/16/2021 11:56:00 AM

Project: Westwood Cleaners, 8731 West North Ave., Wauwato

Matrix: AQUEOUS

Lab ID: 21060594-005

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>							
		<b>SW8260B (SW5030B)</b>					
				Prep Date:			Analyst: ERP
Acetone	ND	0.020	0.0031		mg/L	1	6/22/2021
Benzene	ND	0.0050	0.0002		mg/L	1	6/22/2021
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	6/22/2021
Bromoform	ND	0.0010	0.0003		mg/L	1	6/22/2021
Bromomethane	ND	0.0050	0.002		mg/L	1	6/22/2021
2-Butanone	ND	0.020	0.0016		mg/L	1	6/22/2021
Carbon disulfide	ND	0.010	0.0003		mg/L	1	6/22/2021
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	6/22/2021
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	6/22/2021
Chloroethane	ND	0.010	0.0005		mg/L	1	6/22/2021
Chloroform	ND	0.0010	0.0001		mg/L	1	6/22/2021
Chloromethane	ND	0.010	0.0003		mg/L	1	6/22/2021
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	6/22/2021
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	6/22/2021
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	6/22/2021
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	6/22/2021
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	6/22/2021
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	6/22/2021
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	6/22/2021
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	6/22/2021
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	6/22/2021
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	6/22/2021
2-Hexanone	ND	0.020	0.0002		mg/L	1	6/22/2021
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	6/22/2021
Methylene chloride	ND	0.0050	0.0002		mg/L	1	6/22/2021
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	6/22/2021
Styrene	ND	0.0050	0.0003		mg/L	1	6/22/2021
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	6/22/2021
Tetrachloroethene	0.034	0.0050	0.0003		mg/L	1	6/22/2021
Toluene	ND	0.0050	0.0004		mg/L	1	6/22/2021
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	6/22/2021
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	6/22/2021
Trichloroethene	ND	0.0050	0.0003		mg/L	1	6/22/2021
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	6/22/2021
Xylenes, Total	ND	0.015	0.001		mg/L	1	6/22/2021

**Qualifiers:**

ND - Not Detected at the LOD

J - Analyte detected below LOQ

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded



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Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: June 24, 2021

**ANALYTICAL RESULTS**

Date Printed: June 24, 2021

CLIENT: Hydrodynamics Consultants, Inc.

Client Sample ID: MW 6-4/4

Work Order: 21060594 Revision 0

Collection Date: 6/16/2021 12:03:00 PM

Project: Westwood Cleaners, 8731 West North Ave., Wauwato

Matrix: AQUEOUS

Lab ID: 21060594-006

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>							
		<b>SW8260B (SW5030B)</b>					
				Prep Date:			Analyst: ERP
Acetone	ND	0.020	0.0031		mg/L	1	6/22/2021
Benzene	ND	0.0050	0.0002		mg/L	1	6/22/2021
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	6/22/2021
Bromoform	ND	0.0010	0.0003		mg/L	1	6/22/2021
Bromomethane	ND	0.0050	0.002		mg/L	1	6/22/2021
2-Butanone	ND	0.020	0.0016		mg/L	1	6/22/2021
Carbon disulfide	ND	0.010	0.0003		mg/L	1	6/22/2021
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	6/22/2021
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	6/22/2021
Chloroethane	ND	0.010	0.0005		mg/L	1	6/22/2021
Chloroform	ND	0.0010	0.0001		mg/L	1	6/22/2021
Chloromethane	ND	0.010	0.0003		mg/L	1	6/22/2021
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	6/22/2021
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	6/22/2021
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	6/22/2021
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	6/22/2021
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	6/22/2021
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	6/22/2021
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	6/22/2021
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	6/22/2021
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	6/22/2021
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	6/22/2021
2-Hexanone	ND	0.020	0.0002		mg/L	1	6/22/2021
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	6/22/2021
Methylene chloride	ND	0.0050	0.0002		mg/L	1	6/22/2021
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	6/22/2021
Styrene	ND	0.0050	0.0003		mg/L	1	6/22/2021
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	6/22/2021
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	6/22/2021
Toluene	ND	0.0050	0.0004		mg/L	1	6/22/2021
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	6/22/2021
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	6/22/2021
Trichloroethene	ND	0.0050	0.0003		mg/L	1	6/22/2021
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	6/22/2021
Xylenes, Total	ND	0.015	0.001		mg/L	1	6/22/2021

<b>Qualifiers:</b>	ND - Not Detected at the LOD	LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis
	J - Analyte detected below LOQ	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: June 24, 2021

**ANALYTICAL RESULTS**

Date Printed: June 24, 2021

CLIENT: Hydrodynamics Consultants, Inc.

Client Sample ID: MW 6-4/4-D

Work Order: 21060594 Revision 0

Collection Date: 6/16/2021 12:06:00 PM

Project: Westwood Cleaners, 8731 West North Ave., Wauwato

Matrix: AQUEOUS

Lab ID: 21060594-007

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS****SW8260B (SW5030B)**

Prep Date:

Analyst: **CBG**

Acetone	ND	0.020	0.0031		mg/L	1	6/23/2021
Benzene	ND	0.0050	0.0002		mg/L	1	6/23/2021
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	6/23/2021
Bromoform	ND	0.0010	0.0003		mg/L	1	6/23/2021
Bromomethane	ND	0.0050	0.002		mg/L	1	6/23/2021
2-Butanone	ND	0.020	0.0016		mg/L	1	6/23/2021
Carbon disulfide	ND	0.010	0.0003		mg/L	1	6/23/2021
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	6/23/2021
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	6/23/2021
Chloroethane	ND	0.010	0.0005		mg/L	1	6/23/2021
Chloroform	ND	0.0010	0.0001		mg/L	1	6/23/2021
Chloromethane	ND	0.010	0.0003		mg/L	1	6/23/2021
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	6/23/2021
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	6/23/2021
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	6/23/2021
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	6/23/2021
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	6/23/2021
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	6/23/2021
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	6/23/2021
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	6/23/2021
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	6/23/2021
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	6/23/2021
2-Hexanone	ND	0.020	0.0002		mg/L	1	6/23/2021
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	6/23/2021
Methylene chloride	ND	0.0050	0.0002		mg/L	1	6/23/2021
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	6/23/2021
Styrene	ND	0.0050	0.0003		mg/L	1	6/23/2021
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	6/23/2021
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	6/23/2021
Toluene	ND	0.0050	0.0004		mg/L	1	6/23/2021
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	6/23/2021
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	6/23/2021
Trichloroethene	ND	0.0050	0.0003		mg/L	1	6/23/2021
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	6/23/2021
Xylenes, Total	ND	0.015	0.001		mg/L	1	6/23/2021

ND - Not Detected at the LOD

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

Qualifiers: J - Analyte detected below LOQ

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: June 24, 2021

**ANALYTICAL RESULTS**

Date Printed: June 24, 2021

CLIENT: Hydrodynamics Consultants, Inc.

Client Sample ID: MW 7-4/4

Work Order: 21060594 Revision 0

Collection Date: 6/16/2021 12:13:00 PM

Project: Westwood Cleaners, 8731 West North Ave., Wauwato

Matrix: AQUEOUS

Lab ID: 21060594-008

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS**

SW8260B (SW5030B)

Prep Date:

Analyst: CBG

Acetone	ND	0.020	0.0031		mg/L	1	6/23/2021
Benzene	ND	0.0050	0.0002		mg/L	1	6/23/2021
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	6/23/2021
Bromoform	ND	0.0010	0.0003		mg/L	1	6/23/2021
Bromomethane	ND	0.0050	0.002		mg/L	1	6/23/2021
2-Butanone	ND	0.020	0.0016		mg/L	1	6/23/2021
Carbon disulfide	ND	0.010	0.0003		mg/L	1	6/23/2021
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	6/23/2021
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	6/23/2021
Chloroethane	ND	0.010	0.0005		mg/L	1	6/23/2021
Chloroform	ND	0.0010	0.0001		mg/L	1	6/23/2021
Chloromethane	ND	0.010	0.0003		mg/L	1	6/23/2021
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	6/23/2021
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	6/23/2021
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	6/23/2021
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	6/23/2021
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	6/23/2021
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	6/23/2021
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	6/23/2021
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	6/23/2021
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	6/23/2021
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	6/23/2021
2-Hexanone	ND	0.020	0.0002		mg/L	1	6/23/2021
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	6/23/2021
Methylene chloride	ND	0.0050	0.0002		mg/L	1	6/23/2021
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	6/23/2021
Styrene	ND	0.0050	0.0003		mg/L	1	6/23/2021
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	6/23/2021
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	6/23/2021
Toluene	ND	0.0050	0.0004		mg/L	1	6/23/2021
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	6/23/2021
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	6/23/2021
Trichloroethene	ND	0.0050	0.0003		mg/L	1	6/23/2021
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	6/23/2021
Xylenes, Total	ND	0.015	0.001		mg/L	1	6/23/2021

ND - Not Detected at the LOD

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

**Qualifiers:**

J - Analyte detected below LOQ

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: June 24, 2021

**ANALYTICAL RESULTS**

Date Printed: June 24, 2021

CLIENT: Hydrodynamics Consultants, Inc.

Client Sample ID: MW 8-4/4

Work Order: 21060594 Revision 0

Collection Date: 6/16/2021 12:20:00 PM

Project: Westwood Cleaners, 8731 West North Ave., Wauwato

Matrix: AQUEOUS

Lab ID: 21060594-009

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS****SW8260B (SW5030B)**

Prep Date:

Analyst: **CBG**

Acetone	ND	0.020	0.0031		mg/L	1	6/23/2021
Benzene	ND	0.0050	0.0002		mg/L	1	6/23/2021
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	6/23/2021
Bromoform	ND	0.0010	0.0003		mg/L	1	6/23/2021
Bromomethane	ND	0.0050	0.002		mg/L	1	6/23/2021
2-Butanone	ND	0.020	0.0016		mg/L	1	6/23/2021
Carbon disulfide	ND	0.010	0.0003		mg/L	1	6/23/2021
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	6/23/2021
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	6/23/2021
Chloroethane	ND	0.010	0.0005		mg/L	1	6/23/2021
Chloroform	ND	0.0010	0.0001		mg/L	1	6/23/2021
Chloromethane	ND	0.010	0.0003		mg/L	1	6/23/2021
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	6/23/2021
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	6/23/2021
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	6/23/2021
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	6/23/2021
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	6/23/2021
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	6/23/2021
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	6/23/2021
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	6/23/2021
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	6/23/2021
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	6/23/2021
2-Hexanone	ND	0.020	0.0002		mg/L	1	6/23/2021
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	6/23/2021
Methylene chloride	ND	0.0050	0.0002		mg/L	1	6/23/2021
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	6/23/2021
Styrene	ND	0.0050	0.0003		mg/L	1	6/23/2021
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	6/23/2021
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	6/23/2021
Toluene	ND	0.0050	0.0004		mg/L	1	6/23/2021
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	6/23/2021
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	6/23/2021
Trichloroethene	ND	0.0050	0.0003		mg/L	1	6/23/2021
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	6/23/2021
Xylenes, Total	ND	0.015	0.001		mg/L	1	6/23/2021

ND - Not Detected at the LOD

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

Qualifiers: J - Analyte detected below LOQ

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: June 24, 2021

**ANALYTICAL RESULTS**

Date Printed: June 24, 2021

CLIENT: Hydrodynamics Consultants, Inc.

Client Sample ID: MW 9-4/4

Work Order: 21060594 Revision 0

Collection Date: 6/16/2021 12:28:00 PM

Project: Westwood Cleaners, 8731 West North Ave., Wauwato

Matrix: AQUEOUS

Lab ID: 21060594-010

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
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**Volatile Organic Compounds by GC/MS****SW8260B (SW5030B)**

Prep Date:

Analyst: **CBG**

Acetone	ND	0.020	0.0031		mg/L	1	6/23/2021
Benzene	ND	0.0050	0.0002		mg/L	1	6/23/2021
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	6/23/2021
Bromoform	ND	0.0010	0.0003		mg/L	1	6/23/2021
Bromomethane	ND	0.0050	0.002		mg/L	1	6/23/2021
2-Butanone	ND	0.020	0.0016		mg/L	1	6/23/2021
Carbon disulfide	ND	0.010	0.0003		mg/L	1	6/23/2021
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	6/23/2021
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	6/23/2021
Chloroethane	ND	0.010	0.0005		mg/L	1	6/23/2021
Chloroform	ND	0.0010	0.0001		mg/L	1	6/23/2021
Chloromethane	ND	0.010	0.0003		mg/L	1	6/23/2021
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	6/23/2021
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	6/23/2021
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	6/23/2021
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	6/23/2021
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	6/23/2021
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	6/23/2021
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	6/23/2021
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	6/23/2021
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	6/23/2021
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	6/23/2021
2-Hexanone	ND	0.020	0.0002		mg/L	1	6/23/2021
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	6/23/2021
Methylene chloride	ND	0.0050	0.0002		mg/L	1	6/23/2021
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	6/23/2021
Styrene	ND	0.0050	0.0003		mg/L	1	6/23/2021
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	6/23/2021
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	6/23/2021
Toluene	ND	0.0050	0.0004		mg/L	1	6/23/2021
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	6/23/2021
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	6/23/2021
Trichloroethene	ND	0.0050	0.0003		mg/L	1	6/23/2021
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	6/23/2021
Xylenes, Total	ND	0.015	0.001		mg/L	1	6/23/2021

ND - Not Detected at the LOD

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

**Qualifiers:**

J - Analyte detected below LOQ

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: WI DNR 399099910; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: June 24, 2021

Date Printed: June 24, 2021

**ANALYTICAL RESULTS**

CLIENT: Hydrodynamics Consultants, Inc.

Work Order: 21060594 Revision 0

Project: Westwood Cleaners, 8731 West North Ave., Wauwato

Lab ID: 21060594-011

Client Sample ID: Trip Blank

Collection Date: 6/16/2021 8:35:00 AM

Matrix: AQUEOUS

Analyses	Result	LOQ	LOD	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>							
		<b>SW8260B (SW5030B)</b>					
				Prep Date:			Analyst: <b>CBG</b>
Acetone	ND	0.020	0.0031		mg/L	1	6/23/2021
Benzene	ND	0.0050	0.0002		mg/L	1	6/23/2021
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	6/23/2021
Bromoform	ND	0.0010	0.0003		mg/L	1	6/23/2021
Bromomethane	ND	0.0050	0.002		mg/L	1	6/23/2021
2-Butanone	ND	0.020	0.0016		mg/L	1	6/23/2021
Carbon disulfide	ND	0.010	0.0003		mg/L	1	6/23/2021
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	6/23/2021
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	6/23/2021
Chloroethane	ND	0.010	0.0005		mg/L	1	6/23/2021
Chloroform	ND	0.0010	0.0001		mg/L	1	6/23/2021
Chloromethane	ND	0.010	0.0003		mg/L	1	6/23/2021
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	6/23/2021
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	6/23/2021
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	6/23/2021
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	6/23/2021
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	6/23/2021
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	6/23/2021
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	6/23/2021
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	6/23/2021
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	6/23/2021
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	6/23/2021
2-Hexanone	ND	0.020	0.0002		mg/L	1	6/23/2021
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	6/23/2021
Methylene chloride	ND	0.0050	0.0002		mg/L	1	6/23/2021
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	6/23/2021
Styrene	ND	0.0050	0.0003		mg/L	1	6/23/2021
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	6/23/2021
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	6/23/2021
Toluene	ND	0.0050	0.0004		mg/L	1	6/23/2021
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	6/23/2021
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	6/23/2021
Trichloroethene	ND	0.0050	0.0003		mg/L	1	6/23/2021
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	6/23/2021
Xylenes, Total	ND	0.015	0.001		mg/L	1	6/23/2021

**Qualifiers:**

ND - Not Detected at the LOD

J - Analyte detected below LOQ

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

LOD/LOQ - Limit of Detection / Limit Of Quantitation for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded



**Sample Receipt Checklist**

Client Name **HYDRODYNAMICS**

Date and Time Received: **6/17/2021 2:10:00 PM**

Work Order Number **21060594**

Received by: **EAA**

Checklist completed by: \_\_\_\_\_

SL 6/17/21  
Signature Date

Reviewed by: \_\_\_\_\_

AA 6/17/2021  
Initials Date

Matrix:

Carrier name STAT Analysis

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels/containers? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Container or Temp Blank temperature in compliance? Yes  No  Temperature **3.7 °C**
- Water - VOA vials have zero headspace? No VOA vials submitted  Yes  No
- Water - Samples pH checked? Yes  No  Checked by: \_\_\_\_\_
- Water - Samples properly preserved? Yes  No  pH Adjusted? \_\_\_\_\_

Any No response must be detailed in the comments section below.

Comments: \_\_\_\_\_

Client / Person contacted: \_\_\_\_\_

Date contacted: \_\_\_\_\_

Contacted by: \_\_\_\_\_

Response: \_\_\_\_\_