Site Investigation Report

for

Bright Cleaners Tenant Space
Franklin Centre
7249 South 76th Street
Franklin, Milwaukee County, Wisconsin

DNR FID #241928940
DNR BRRTS #02-41-580017

November 3, 2017

Apex Project No. PECO_2017-68

Prepared for:

Franklin Station LLC, c/o Phillips Edison & Company
11501 Northlake Drive
Cincinnati, Ohio 45249

Apex Companies, LLC · apexcos.com
300 South Wacker Drive, Suite 630 · Chicago, Illinois 60606 · T 847.956.8589 x3205 · F 847.956.8619
1701 East Woodfield Road, Suite 333 · Schaumburg, Illinois 60173 · T 847.956.8589 · F 847.956.8619

November 3, 2017

Mr. Eric Amadi
State of Wisconsin
Department of Natural Resources
Southeast Region Headquarters
2300 N. Dr. Martin Luther King, Jr. Drive
Milwaukee, Wisconsin 53212-3128

Re: Site Investigation Report
Bright Cleaners Tenant Space, Franklin Centre
7249 South 76th Street, Franklin, Wisconsin
Wisconsin DNR Facility Identification #241928940
Wisconsin DNR BRRTS Activity #02-41-580017

Dear Mr. Amadi:

Franklin Station LLC retained Apex to conduct a Site Investigation at the Bright Cleaners dry cleaner tenant space at 7249 South 76th Street. This tenant space is located within Franklin Station LLC's Franklin Centre, a retail strip mall located at 7199-7255 South 76th Street in Franklin, Milwaukee County, Wisconsin.

Historical records show dry cleaning operations have been conducted in the tenant space from 1995 to present. Soil, groundwater and soil-gas testing was conducted to assess the nature and extent of volatile organic compounds (VOCs) impacts near the tenant space.

Enclosed is Apex's Site Investigation Report. At this time Apex is not requesting assistance from the Wisconsin DNR and a document review has not been included.

If you have any questions regarding our findings, please contact Jane Allan at (513) 771-3617 x3801. Thank you for attention to this matter.

Respectfully Submitted,
Apex Companies, LLC

Jane Allan
Senior Project Manager

Joseph P. Becker, P.G.
Project Hydrogeologist

cc: Mr. Joe Schlosser, Franklin Station LLC

Attachments

TABLE OF CONTENTS

FIGURES

TABLES

APPENDICES

EXECUTIVE SUMMARY

Franklin Station LLC (Client) retained Apex to conduct a Site Investigation at the Bright Cleaners tenant space at 7249 South 76th Street. This tenant space is located within Client's Franklin Centre, a retail strip mall located at 7199-7255 South 76th Street in Franklin, Milwaukee County, Wisconsin.

Historical records show two dry cleaning businesses have operated dry cleaning plants in this tenant space: Sun Cleaners in 1995 and Bright Cleaners from 1999 to present. Several rounds of soil sampling were conducted by others in the tenant space in 2011. One soil sample located outside of the Bright Cleaners by the rear door was found to have a concentration of 1,1,1-trichloroethane (1,1,1-TCA) that exceeded the Residual Contaminant Levels (RCLs). A deeper sample collected from the same location had a 1,1,1-TCA concentration below RCLs. Additional samples were collected and analyzed for volatile organic compounds (VOCs) to delineate the extent of contamination. Approximately 58 tons of soil in the vicinity of the 1,1,1-TCA exceedance was excavated, and confirmation samples were collected that showed the contamination had been bounded. These results were submitted to the Wisconsin Department of Natural Resources (DNR). In its letter issued in 2013, the Wisconsin DNR stated that the release at Bright Cleaners is closed and no further investigation or remediation was required at that time.

Bright Cleaners' continued use of dry cleaning solvents in its operation through present day poses a REC. To assess the risk of subsurface impacts associated with the continued use of dry cleaning solvents in the tenant space since 2011, Apex conducted limited soil, groundwater and soil-gas sampling at the Site.

The soil analysis detected one volatile organic compound (VOC) [methylene chloride] at concentrations that slightly exceed the RCL for the soil (leaching) component to groundwater in two soil samples. The soil analysis did not detect VOCs at concentrations in excess of RCLs for direct contact. Apex notes that methylene chloride is not associated with dry cleaning solvents, and was not detected in groundwater at concentrations in excess of laboratory Method Detection Limits (MDLs) or Preventative Action Limit (PAL) Groundwater Quality Standards (GQS). Additionally, based on previous assessment, methylene chloride has been present in soil for at least one year and has not been detected in groundwater at both locations. Therefore, it is Apex's opinion that a soil remedy for the groundwater pathway for methylene chloride is not needed[1].

The groundwater analysis did not detect VOCs at concentrations in excess of GQSs and/or Vapor Risk Screening Levels (VRSLs), including methylene chloride. Therefore, it is Apex's opinion that additional groundwater investigation is not warranted.

The soil-gas analysis detected one VOC (tetrachloroethene [PCE]) at concentrations in excess of Vapor Action Levels (VALs) in two soil-gas samples. It is Apex's opinion that the VOCs detected in soil-gas have been delineated, and that additional investigation is not warranted. However, to eliminate the soil-gas exposure pathway for building occupants, mitigation will be required. It is

[1] Guidance on Soil Performance Standards, Remediation & Redevelopment Program, Wisconsin DNR, dated January 2014.

anticipated that a sub-slab depressurization system will be installed and follow-up monitoring will be conducted to verify the system is effectively mitigating vapor intrusion to indoor air.

RESULTS OF SITE INVESTIGATION
BRIGHT CLEANERS TENANT SPACE, FRANKLIN CENTRE
7249 SOUTH 76TH STREET
FRANKLIN, MILWAUKEE COUNTY, WISCONSIN

1.0 INTRODUCTION

Franklin Station LLC (Client) acquired a retail strip mall located at 7199-7255 South 76th Street in Franklin, Milwaukee County, Wisconsin (the Site) in 2016. The general vicinity of the Site is shown in **Figure 1**.

Prior to acquiring the Site, Client retained Apex Companies, LLC (Apex) to conduct a Phase I Environmental Site Assessment (ESA) at the Franklin Centre. The Phase I ESA identified one recognized environmental condition (REC), use of dry cleaning solvents in a tenant space currently occupied by Bright Cleaners. The findings of the Phase I ESA were presented in Apex's report dated September 28, 2016.

Client subsequently retained Apex to conduct a Phase II Limited Subsurface Investigation (subsurface investigation) at the dry cleaner tenant space at 7249 South 76th Street.

1.1 Background Information

The Franklin Centre occupies approximately 14.6-acres, and is developed with a 120,000-square foot (SF) multi-tenant shopping center with slab-on-grade floors (no basements), asphalt pavement and landscaped areas as shown in **Figure 2**. The Bright Cleaners tenant space is 1,280 SF and includes a closed loop dry cleaning plant, located near the central portion of the tenant space as shown in **Figure 3**. Photographs of the dry cleaning tenant space are included in **Appendix A**.

Historical records show two businesses have operated dry cleaning plants in this tenant space: Sun Cleaners in 1995 and Bright Cleaners from 1999 to present. Businesses immediately adjoining the dry cleaner tenant space include UPS Store to the west and Pizza Hut to the east.

1.2 Previous Reports & Agency Correspondence

Phase I ESA (2016). Apex's September 2016 Phase I ESA report included review of a previous reports by Weaver Boos Consultants North Central, LLC (Weaver) titled *Phase I and Phase II Environmental Site Assessment, Franklin Centre – Parcel 1, 7201 76th Street, Franklin, Wisconsin 53132*, dated May 6, 2001; *Phase I Environmental Site Assessment, 7201 South 76th Street, Franklin, Wisconsin*, dated May 27, 2011; *Limited Phase II Environmental Site Assessment Report, Bright Cleaners, 7249 South 76th Street, Franklin, Wisconsin*, dated June 17, 2011; *and, Supplemental Response Activities, Bright Cleaners, 7249 South 76th Street, Franklin, Wisconsin*, dated June 28, 2011. The use of dry cleaning solvents at Bright Cleaners was identified as a REC.

Phase I ESA (2001 and 2011). In its 2011 Phase I ESA report, Weaver identified the potential presence of subsurface impacts associated with an active drycleaner facility at the Site. Weaver referenced a previous Phase I and Phase II ESA that they conducted at the Site in 2001. According

to the 2001 Phase I ESA, Weaver observed staining on the floor in proximity of the dry cleaning machine and improperly stored hazardous materials.

Results of Soil Analysis (2001). Weaver advanced three soil borings in the vicinity of the dry cleaning machine and outside of the tenant space. Soil samples were analyzed for volatile organic compounds (VOCs). Analytical results were below laboratory detection limits.

Results of Soil Analysis (2011). Weaver conducted a Limited Phase II ESA in June 2011 that included the collection of six soil samples from three soil boring locations for VOC analysis. Weaver compared the laboratory results to the Wisconsin Department of Natural Resources' (Wisconsin DNR) Residual Contaminant Levels (RCLs). One soil sample located outside of the Bright Cleaners by the rear door (SP-1 / 2-4') was found to have concentrations of 1,1,1 trichloroethane (1,1,1-TCA) that exceed the RCLs. The deeper sample from SP-1 had 1,1,1-TCA concentrations below RCLs. Weaver did not encounter groundwater during the Limited Phase II ESA. Weaver concluded that VOC impacts appear to be limited to shallow subsurface soils near SP-1.

Supplemental Response Activities (2011). Weaver conducted additional activities at the Site in response to the results of the Limited Phase II ESA in June 2011. Weaver collected six additional shallow soil samples that were analyzed for VOCs to delineate the extent of contamination beyond SP-1. VOCs were not detected at concentrations in excess of laboratory Method Detection Limits (MDLs). Weaver excavated approximately 58 tons of soil in the vicinity of SP-1. Five confirmatory soil samples were collected from the excavation and analyzed for VOCs. Concentrations of VOCs were not found above RCLs in the five confirmatory samples. Weaver concluded that mitigation of the VOC impacts at the Site was successful.

Correspondence from Wisconsin DNR (2013). Apex reviewed a letter from the Wisconsin DNR[2] titled *Final Case Closure, Bright Cleaners, 7249 South 76th Street, Franklin, WI, DNR BRRTS Activity #: 02-41-557111, FID #: 241928940*, dated December 27, 2013. In its letter, the Wisconsin DNR stated that the release at Bright Cleaners is closed and no further investigation or remediation was required at that time. Apex notes that Bright Cleaners continued to operate the dry cleaning plant from 2011 to the present.

Phase II Limited Subsurface Investigation (2016). To assess the risk of subsurface impacts associated with the continued use of dry cleaning solvents at the Bright Cleaners tenant space since 2011, Apex conducted subsurface assessment on August 31, 2016.

Subsurface assessment included collection of soil samples from three exterior borings (TW-1 through TW-3); collection of groundwater samples from two temporary monitoring wells (TW-1 and TW-3); and collection of sub-slab soil-gas samples from three locations (SV-1 through SV-3). The soil, groundwater and soil-gas samples were submitted for VOC analysis. Apex notes that groundwater was not encountered in one temporary well (TW-2). The locations of the soil borings, temporary monitoring well locations and soil-gas samples are shown in **Figure 3**.

[2] Source: Wisconsin Department of Natural Resources (DNR) Bureau for Remediation and Redevelopment Tracking System (BRRTS) data repository.

- The soil analysis detected one VOC (methylene chloride) in one soil sample (TW-1 at 14 feet below ground surface [bgs]) at a concentration that slightly exceeded the soil (leaching) component to groundwater RCL. Apex notes that methylene chloride has historically been used in paint removers, solvent degreasing, plastics processing, blowing agent in foams, solvent extraction, solvent for cellulose acetate, and as an aerosol propellant. Additionally, methylene chloride is a common laboratory contaminant, and was detected in the associated Method Blank. Therefore, it is Apex's opinion that methylene chloride detected in one soil sample is a laboratory artifact, and does not reflect contamination from historical Site operations.

- The groundwater analysis did not detect any compounds in excess of Groundwater Quality Standards (GQSs).

- The soil-gas analysis detected tetrachlorothene (PCE) in two sub-slab soil gas samples (SV-1 and SV-2) at concentrations in excess of the commercial Vapor Action Levels (VAL).

The results of the soil analysis, groundwater analysis and soil-gas analysis are summarized in **Tables 1, 2 and 3**, respectively.

1.3 Objectives and Scope of Work

To further characterize the extent of VOC impacts in soil, groundwater and sub-slab soil-gas, Apex conducted expanded assessment in and near the dry cleaner tenant space in August 2017. The specific scope of work included (1) soil sampling/analysis; (2) monitoring well installation and groundwater sampling/analysis; and (3) soil-gas sampling/analysis

The subsurface assessment activities are discussed in **Section 2.0**; soil and groundwater conditions are discussed in **Section 3.0**; the results of soil, groundwater and soil-gas analysis are discussed in **Section 4.0**; a summary of the assessment is discussed in **Section 5.0**; and our conclusions and recommendations are discussed in **Section 6.0**.

2.0 EXPANDED SUBSURFACE ASSESSMENT

Previous subsurface assessment conducted by Apex in August 2016 included the advancement of three soil borings (TW-1 through TW-3); collection/analysis of one soil sample from each soil boring (3 total); installation of three temporary groundwater monitoring wells (TW-1 through TW-3): collection/analysis of two groundwater samples (TW-1 and TW-3); and, collection/analysis of three sub-slab soil-gas samples (SV-1 through SV-3).

Expanded subsurface assessment included a non-invasive geophysical survey to clear underground utilities; the advancement of four soil borings (MW-1 through MW-3 and B-1); collection/analysis of soil samples from three soil borings (MW-1, MW-2, and B-1); installation, sampling and analysis of three permanent groundwater monitoring wells (MW-1 through MW-3); and, collection/analysis of three sub-slab soil-gas samples (SV-4 through SV-6) between August 11 and 17, 2017.

The locations of the soil borings, monitoring wells and sub-slab sample locations are shown in **Figures 3**. Photographs taken at the time of fieldwork are included in **Appendix A**. Apex's field protocols are described in **Appendix B**.

2.1 Performance of a Geophysical Survey

Apex retained Ground Penetrating Radar Systems, Inc. (GPRS) to perform a non-invasive geophysical survey in an effort to clear the boring locations and avoid damaging underground utilities. The geophysical survey was performed using a combination of ground-penetrating radar (GPR) and radio detection (RD) techniques.

2.2 Soil Sampling and Analytical Program

2.2.1 Soil Sampling

To assess soil conditions at the Site, Apex used a track-mounted Geoprobe™ rig and/or jackhammer with Geoprobe™ sample rods to collect soil samples from four borings (MW-1 through MW-3 and B-1), each advanced to probe refusal, encountered at depths ranging from 4 to 18 feet bgs. Soil borings were advanced in the locations of the three permanent monitoring wells prior to well installation to collect soil samples and for lithologic description as described below. One soil boring was advanced within the dry cleaners tenant space to evaluate the source area. The locations of the soil borings/monitoring wells are shown in **Figure 3**.

Lithologic Description. Soil samples were logged continuously from ground surface to the bottom of each boring. An experienced Apex geologist documented the subsurface conditions (soil type, volatile emissions using a photoionization detector [PID], the presence of staining, odors and groundwater levels, etc.) in each boring. Field screening of soil generally did not exhibit indications of VOC impacts. The soil conditions and results of field screening are shown in Apex's boring logs, and Wisconsin DNR Soil Boring Log Information forms (Form 4400-122) in accordance with WAC NR 716.15(4)(g)(4), included in **Appendix C**.

2.2.2 Soil Analysis

Representative soil samples were collected to document the lateral and vertical extent of chemical impacts. Soil collected from three borings, MW-1 (depth of 4 feet bgs), MW-2 (depth of 6 feet bgs), and B-1 (depth of 2 feet bgs), were analyzed for VOCs by EPA Method 5035/8260. The soil analysis was performed by STAT Analysis Corporation, a National Environmental Laboratory Accreditation Conference (NELAP) certified laboratory. The soil analysis was performed on a 5-day laboratory turnaround basis. The results of the initial and expanded soil analysis for VOCs are included in **Table 1** and discussed in **Section 4.1**.

2.3 Groundwater Sampling and Analytical Program

2.3.1 Monitoring Well Installation and Sampling/Analysis

Apex installed three shallow groundwater monitoring wells (MW-1 through MW-3) at the locations shown in **Figure 3**. The monitoring wells were installed to auger refusal, encountered at depths ranging from 15 to 19½ feet bgs. Apex constructed the wells using 2-inch diameter, schedule 40 PVC, factory-slotted well casing and blank risers. Following drilling and soil sampling, a well screen and riser was placed into the open borehole and a sand filter pack was placed in the annulus surrounding the well casing. This sand pack was placed to a depth of 2-feet above the well screen. The remainder of the borehole was backfilled with a well seal consisting of bentonite clay and grout. The monitoring wells were completed at ground surface using a flush-mount well box. A magnet was placed in the void between the cover and the annular space seal in accordance with NR 716.13(14)(b). Apex's field protocols are described in **Appendix B**. Apex's well construction diagrams, and Wisconsin DNR Groundwater Monitoring Well Information form (Form 4400-89) and Monitoring Well Construction forms (Form 4400-113A) in accordance with WAC NR 716.15(4)(g)(2), are included in **Appendix C**.

Elevation Survey/Water Level Measurement. Following installation, the top of three of the well casings (MW-1 through MW-3) were surveyed for lateral and vertical control by a licensed surveyor. Several days following well installation, stabilized ground water levels were measured in each well within an accuracy of 0.01-foot. The water level data and the results of the well elevation survey was used to calculate the groundwater gradient and lateral flow direction at the Site.

Monitoring Well Development. Following installation, the monitoring wells were developed to remove sediment and to improve hydraulic communication with the surrounding aquifer. Well development procedures consisted of the removal of approximately three to five well casing volumes of groundwater, and are documented in Wisconsin DNR Monitoring Well Development forms (Form 4400-113B) in accordance with WAC NR 716.15(4)(g)(3), included in **Appendix C**.

Groundwater Sampling. Groundwater samples were collected from each of the three monitoring wells using a low flow pump, in accordance with Wisconsin DNR-approved protocols. The groundwater samples were placed in clean, laboratory-supplied vials or bottles, labeled and placed in a chilled cooler pending delivery to the analytical laboratory. Appropriate chain-of-custody protocols were maintained throughout the sample-handling process, and a temperature blank was included in each shipping container.

2.3.2 Groundwater Analysis

One groundwater sample from each monitoring well (three total) was analyzed for VOCs by EPA Method 8260. For quality control purposes, one duplicate groundwater sample (collected from monitoring well MW-1) and one trip blank were also analyzed for VOCs. The groundwater analysis was also performed by STAT Analysis Corporation, a NELAC-certified lab, on a 5-day laboratory turnaround basis. The results of the initial and expanded groundwater analysis are summarized in **Table 2** and discussed in **Section 4.2**.

2.4 Soil-Gas Sampling and Analytical Program

2.4.1 Vapor Sampling Probe Installation

Apex installed three additional sub-slab soil-gas (vapor) probes (SV-4 through SV-6) through the concrete floor slab using a rotary hammer drill at the locations shown in **Figure 3**. These were installed to supplement SV-1 through SV-3 installed and sampled during the initial assessment in August 2016 and were used to assess the lateral extent of VOCs in sub-slab soil-gas. A description of Apex's field protocols and Soil-Gas Sample Logs are included in **Appendix B**.

The probes were installed by drilling a small diameter hole (5/8-inch) through the concrete slab into the underlying gravel-aggregate layer, approximately nine inches below the top of the concrete floor. A 1-inch diameter hole was drilled in the same location to approximately ½-inch below the top of the concrete floor for leak testing. The hole was then cleared of any debris prior to installing the soil-gas probe. The soil-gas probes consisted of a brass adapter/compression coupling, covered with a silicone tube, which was inserted and seated firmly into the 5/8-inch diameter hole drilled through the concrete slab. Apex installed vapor pins[3] in the concrete slab in 3 locations to allow for future sample collection, if warranted.

The soil-gas samples were collected using batch-certified 6-liter Summa® canisters (evacuated stainless steel canisters) with (30-minute) flow control valves with a flow rate of 200 milliliters per minute (mL/min). At each of the soil vapor probe location, the Summa® canister was connected to the sample probe and the regulator valve was opened. The initial time and vacuum pressure were recorded and monitored throughout sample collection. Chain of custody documentation was maintained throughout the sample handling process. Results of the field screening, purge volumes, leak test observations, sampling intervals, initial and final vacuum pressures and laboratory-supplied equipment identification numbers are summarized in the sub-slab sampling logs included in **Appendix C.**

Following collection of the soil-gas samples, the soil-gas probes were removed from the slab and the sampling areas were restored with concrete to match the surrounding hard surface. In areas where vapor pins were installed, the pins were capped to prevent transmission and covered with a secure stainless steel cover. Site photographs of the soil-gas sampling locations are included in in **Appendix A**. Soil-gas sampling details (i.e., results of field screening and leak testing; sample duration, initial

[3] A re-usable sub-slab soil-gas sampling device

and final canister pressures; and laboratory identification numbers) are recorded in the soil-gas sample logs included in **Appendix B**.

2.4.2 Soil-Gas Analysis

The soil-gas samples (one sample from each vapor extraction point) were analyzed for VOCs by EPA Method TO-15. The soil-gas analysis was performed by STAT Analysis Corporation on a 5-day laboratory turnaround basis. The results of the initial and expanded soil-gas analysis are summarized in **Table 3** and discussed in **Section 4.3**.

3.0 SOIL AND GROUNDWATER CONDITIONS

3.1 Soil Conditions

Apex advanced seven borings to rod refusal, encountered at depths ranging from 4 to 20 feet bgs. The soil borings encountered the following generalized lithologic sequence:

- Asphalt approximately 4 inches thick was encountered at ground surface in the exterior borings (MW-1 through MW-3). Concrete approximately 5 inches thick was encountered in the interior boring (B-1). Topsoil, asphalt pavements and concrete were generally underlain by approximately 3 inches of crushed stone.
- Silty clay/clayey silt was encountered below the crushed stone/aggregate to a depth of 20 feet bgs, the maximum depth explored.
- A discontinuous silty/clayey sand lens was encountered in MW-2 at depths ranging from 10 to 11 feet bgs.
- Gravel, sand and/or crushed stone was comingled with clay in MW-2 at depths ranging from 4 to 10 feet bgs and may be backfilled material from construction activities.

Apex did not encounter significant volatile emissions measured using a PID, chemical odors or other indications of a potential chemical release. Refer to boring logs included in **Appendix C** for additional information regarding the soil conditions. A cross section of the Site is provided as **Figure 4**.

3.2 Groundwater Conditions

Groundwater at the Site occurs in an unconfined (water table) aquifer. Groundwater was generally encountered at depths ranging from 10 to 16 feet bgs at the time of drilling. The top of the monitoring well casings were surveyed for lateral and vertical control by Spaceco, Inc., a licensed surveyor.

Stabilized groundwater was measured at depths ranging from 8.40 to 11.97 feet bgs (756.82 to 760.91 feet above mean sea level). Based upon water level measurements, Apex calculates groundwater flows to the southwest at a gradient of 0.03 ft./ft. (horizontal to vertical). Groundwater elevation contours measured on August 17, 2017 are shown in **Figure 5**. The top of the well casings, water level measurements and groundwater elevations are summarized in a table included in **Appendix D**.

3.2.1 Hydraulic Conductivity Testing

Apex performed in-situ hydraulic testing in three wells (MW-1, MW-2 and MW-3) to measure the hydraulic conductivity of the shallow aquifer (water bearing zone) beneath the Site. A pressure transducer/data logger was lowered below the water table and the water level was allowed to stabilize. The transducer/data logger was then connected to a Rugged Reader® using a waterproof coaxial cable. A quantity of water ('slug') was quickly removed from the well and rising head recovery rates were measured over time, until the water level recovered over the duration of the test. Due to the slow recovery in two wells (MW-1 and MW-3), the test was performed only once in these wells.

The Bouwer & Rice Method[4] was used to calculate a hydraulic conductivity (K) which ranged from 1.45×10^{-3} centimeters/second (for MW-2) to 3.10×10^{-6} centimeters/second (for MW-3) which shows that the hydraulic conductivity is highly variable at the Site. Apex opines that the higher hydraulic conductivity measured in well MW-2 is due to the discontinuous clayey sand lens observed at a depth of 10 to 11 feet bgs and was not present in soil borings MW-1 and MW-3. Considering that the potentiometric surface was consistent between wells MW-1 and MW-2, the clayey sand lens does not appear to be confined and localized groundwater flow in the shallow aquifer is characteristic of the predominant clayey silt/silty clay lithology. Additionally, a relatively slow hydraulic conductivity (10^{-6} centimeters/second) is consistent with the observed silty clay lithology. The test parameters, field measurements, and head verses time data generated during the test runs are included as **Attachment D**.

[4] Bouwer, Herman. 1989. The Bouwer and Rice Slug Test – An Update. Groundwater, Vol. 27, No. 3: 304-309.

4.0 RESULTS OF INITIAL AND EXPANDED SOIL, GROUNDWATER AND SOIL-GAS ANALYSIS

The results of the soil, groundwater and soil-vapor analysis are presented in **Tables 1** through **3** and discussed in the following sections. For soil, groundwater and soil-gas samples, the reporting limit for VOC analysis was the method detection limit for the analytical method used.

4.1 Results of the Soil Analysis

Apex collected soil samples from six borings, TW-1 (14 feet bgs), TW-2 (11 feet bgs), TW-3 (12 feet bgs), MW-1 (4 feet bgs), MW-2 (6 feet bgs) and B-1 (2 feet bgs). The soil samples were analyzed for VOCs by EPA Method 5035/8260. The results of the soil analysis were compared to Non-Industrial and Industrial RCLs for Direct Contact and the soil (leaching) component to groundwater cited in the U.S. Environmental Protection Agency's (USEPA) Regional Screening Level Web-Calculator (March 2017) in accordance with Wisconsin Administrative Code NR 720 (WAC 720).

The soil analysis detected one VOC (methylene chloride) at a concentration in excess of RCLs in two borings as summarized below.

Compound	Boring @ Depth (bgs)	Concentrations in milligrams per kilogram Detected (mg/kg)			
		Concentration	Residual Contaminant Levels		
			Non-Industrial	Industrial	Soil (leaching) Groundwater
Methylene chloride	TW-1 @ 14 ft.	**0.0019**	61.8	1,150	0.0013
	MW-1 @ 4'	**0.0015**			

Concentration exceeding the RCL is highlighted in yellow and shown as **bold**
Exceeded RCL is highlighted in green

As summarized above, the soil analysis detected one VOC at concentrations that slightly exceed the RCL for the soil (leaching) component to groundwater exposure pathway. The soil analysis did not detect any VOCs at concentrations in excess of RCLs for direct-contact (non-industrial and industrial), and no additional VOCs at concentrations in excess of RCLs for the soil component to groundwater per WAC 720.

Apex notes that methylene chloride has historically been used in paint removers, solvent degreasing, plastics processing, blowing agent in foams, solvent extraction, solvent for cellulose acetate, and as an aerosol propellant. Additionally, methylene chloride is a common laboratory contaminant, and was detected in the method blank associated with sample TW-1. Therefore, it is Apex's opinion that methylene chloride detected in sample TW-1 is a laboratory artifact, and does not reflect contamination from historical Site operations.

The results of the soil analysis, RCLs and sample depths are summarized in **Table 1** and the sample locations are shown in **Figure 3**. Copies of the laboratory reports and the chain-of custody form are included in **Appendix E**.

4.2 Results of Groundwater Analysis

Apex collected two groundwater samples from two temporary monitoring wells (TW-1 and TW-3) and three groundwater samples from three dedicated monitoring wells (MW-1 through MW-3). Apex also collected one duplicate sample (from MW-1) and one trip blank. The groundwater samples were analyzed for VOCs by EPA Method 8260.

The results of the groundwater analysis were compared to GQS (Enforcement Standards and Preventative Action Limits) cited in WAC NR 140.10 Table 1 (WAC 140) and Vapor Risk Screening Levels (VRSLs) for groundwater for a commercial property use based on the USEPA Vapor Intrusion Screening Level Calculator (VISLC, Version 3.5.2, October 2017) with an excess lifetime cancer risk of 1 x 10^{-5} in accordance with WAC NR 716 (WAC 716).

The groundwater analysis did not detect VOCs at concentrations in excess of GQSs or VRSLs. Apex notes that methylene chloride was detected in two soil samples at concentrations in excess of the soil component to groundwater RCL; however, the groundwater analysis did not detect methylene chloride at concentrations in excess of MDLs in the corresponding monitoring wells.

The results of the groundwater analysis, GQSs and VISLs are summarized in **Table 2** and the sample locations are shown in **Figure 3**. Copies of the laboratory reports and the chain-of-custody form are included in **Appendix E**.

4.3 Results of the Soil-Gas Analysis

Apex collected 6 soil-gas samples immediately below the concrete floor slab in, and adjacent to the dry cleaner tenant space at the locations shown in **Figure 3**. One soil-gas sample was collected near the center of the Bright Cleaners tenant space (SV-1), one adjacent to the dry cleaning plant (SV-2), one adjacent to chemical storage (SV-3) and three samples (SV-4 through SV-6) were used to assess the lateral extent of VOCs in sub-slab soil-gas. The soil-gas samples were analyzed for VOCs by EPA Method TO-15.

The results of the soil-gas analysis were compared to sub-slab Vapor Action Levels (VALs) for a commercial property use based on the USEPA VISL (Version 3.5.1, May 2016) with an excess lifetime cancer risk of 1 x 10^{-5} in accordance with WAC 716.

The soil-gas analysis detected PCE in two samples at concentrations in excess of commercial VALs per WAC 716 as summarized below.

Compound	Sample Number	Concentrations in micrograms per liter (µg/L)	
		Detected Concentration	Sub-Slab Vapor Action Level
PCE	SV-1	**12,000**	5,800
	SV-2	**44,000**	

Concentration exceeding the VAL is highlighted in yellow and shown as **bold**
Exceeded VAL is highlighted in green

The soil-gas analysis did not detect any additional VOCs at concentrations in excess of commercial VALs per WAC 716. The results of the soil-gas analysis and VALs are summarized in **Table 3**. The sample locations with VOC concentrations in excess of VALs are summarized and shown in **Figure 6**. Copies of the laboratory reports and the chain-of custody form are included in **Appendix E**.

5.0 SUMMARY

Client retained Apex to conduct a Site Investigation at the Bright Cleaners tenant space at 7249 South 76th Street. This tenant space is located within Client's Franklin Centre, a retail strip mall located at 7199-7255 South 76th Street in Franklin, Milwaukee County, Wisconsin.

Historical records show two dry cleaning businesses have operated dry cleaning plants in this tenant space: Sun Cleaners in 1995 and Bright Cleaners from 1999 to present. Several rounds of soil sampling were conducted by others in the tenant space in 2011. One soil sample located outside of the Bright Cleaners by the rear door was found to have a concentration of 1,1,1-TCA that exceeded the RCLs. A deeper sample collected from the same location had a 1,1,1-TCA concentration below RCLs. Additional samples were collected and analyzed for VOCs to delineate the extent of contamination. Approximately 58 tons of soil in the vicinity of the 1,1,1-TCA exceedance was excavated, and confirmation samples were collected that showed the contamination had been bounded. These results were submitted to the Wisconsin DNR. In its letter issued in 2013, the Wisconsin DNR stated that the release at Bright Cleaners is closed and no further investigation or remediation was required at that time.

Bright Cleaners' continued use of dry cleaning solvents in its operation through present day poses a REC. To assess the risk of subsurface impacts associated with the continued use of dry cleaning solvents in the tenant space since 2011, Apex conducted limited soil, groundwater and soil-gas sampling at the Site.

The soil analysis detected one VOC (methylene chloride) at concentrations in excess of RCLs for the soil (leaching) component to groundwater in two soil samples. The soil analysis did not detect VOCs at concentrations in excess of RCLs for direct contact. The groundwater analysis did not detect VOCs at concentrations in excess of GQSs and/or VRSLs, including methylene chloride. The soil-gas analysis detected one VOC (PCE) at concentrations in excess of VALs in two soil-gas samples.

6.0 CONCLUSIONS AND RECOMENDATIONS

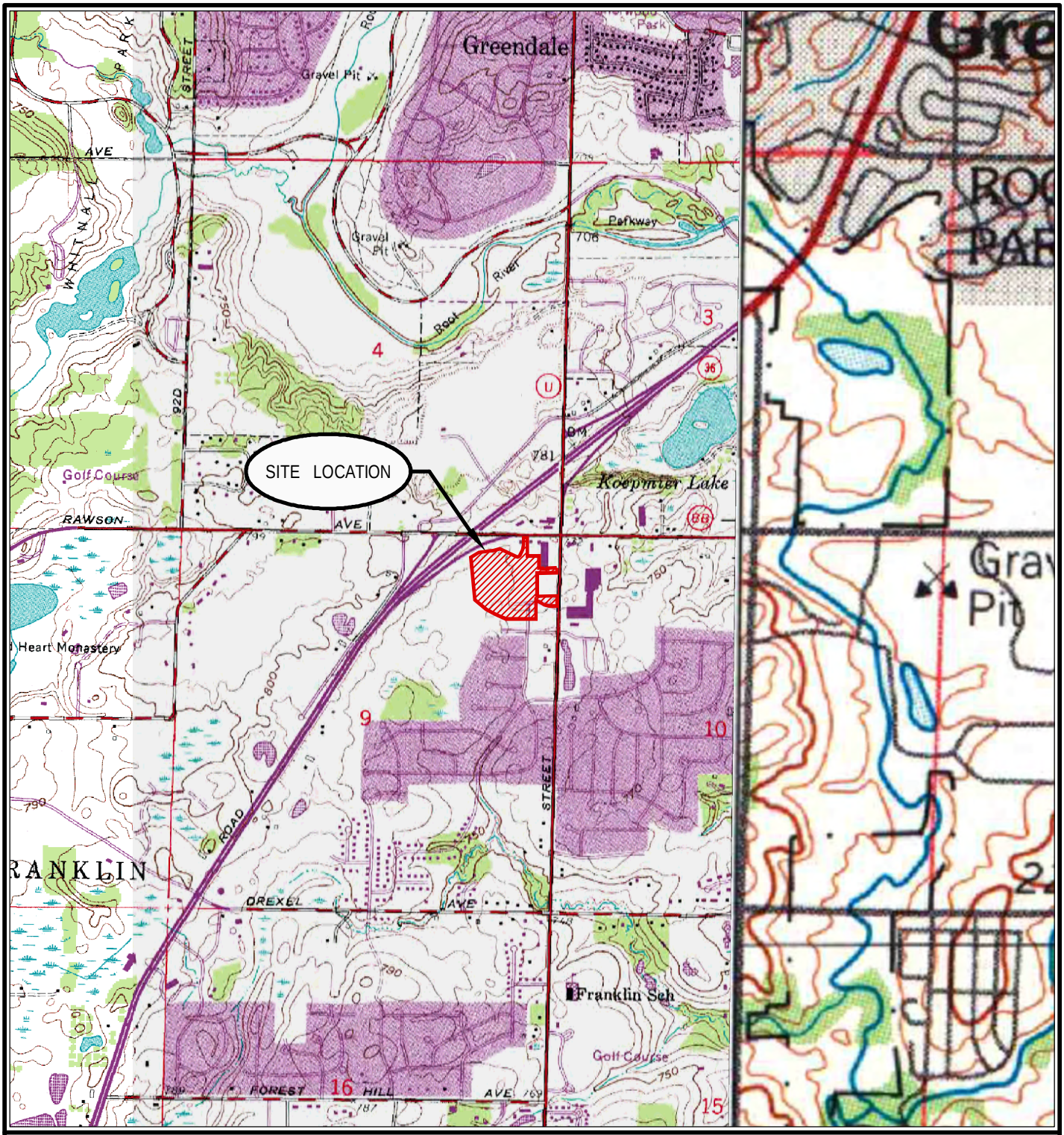
The results of the soil analysis detected methylene chloride at concentrations that slightly exceed the soil (leaching) component to groundwater. However, Apex notes that this compound is not associated with dry cleaning solvents, and was not detected in groundwater at concentrations in excess of MDLs or Preventative Action Limit (PAL) GQSs. Additionally, based on previous assessment, methylene chloride has been present in soil for at least 1 year and has not been detected in groundwater at both locations. Therefore, it is Apex's opinion that a soil remedy for the groundwater pathway for methylene chloride is not needed[5].

Considering that VOCs were not detected in groundwater at concentrations in excess of GQSs, it is Apex's opinion that additional groundwater investigation is not warranted.

It is Apex's opinion that the VOCs detected in soil-gas have been delineated, and that additional investigation is not warranted. However, to eliminate the soil-gas exposure pathway for building occupants, mitigation will be required. It is anticipated that a sub-slab depressurization system will be installed and follow-up monitoring will be conducted to verify the system is effectively mitigating vapor intrusion to indoor air.

[5] Guidance on Soil Performance Standards, Remediation & Redevelopment Program, Wisconsin DNR, dated January 2014.

Figures



QUADRANGLE LOCATION

Scale 1:24000

0 1/2 1 MILE

1000 0 1000 2000 3000 FEET

(SOURCE OF MAP IS USGS 7.5 MINUTE QUADRANGLE MAP, HALES CORNERS (1994), WISCONSIN)

CHECK BY	JB
DRAWN BY	OS
DATE	8-29-16
SCALE	AS SHOWN
CAD NO.	PECO_2016.78A
PRJ NO.	PECO_2016.78

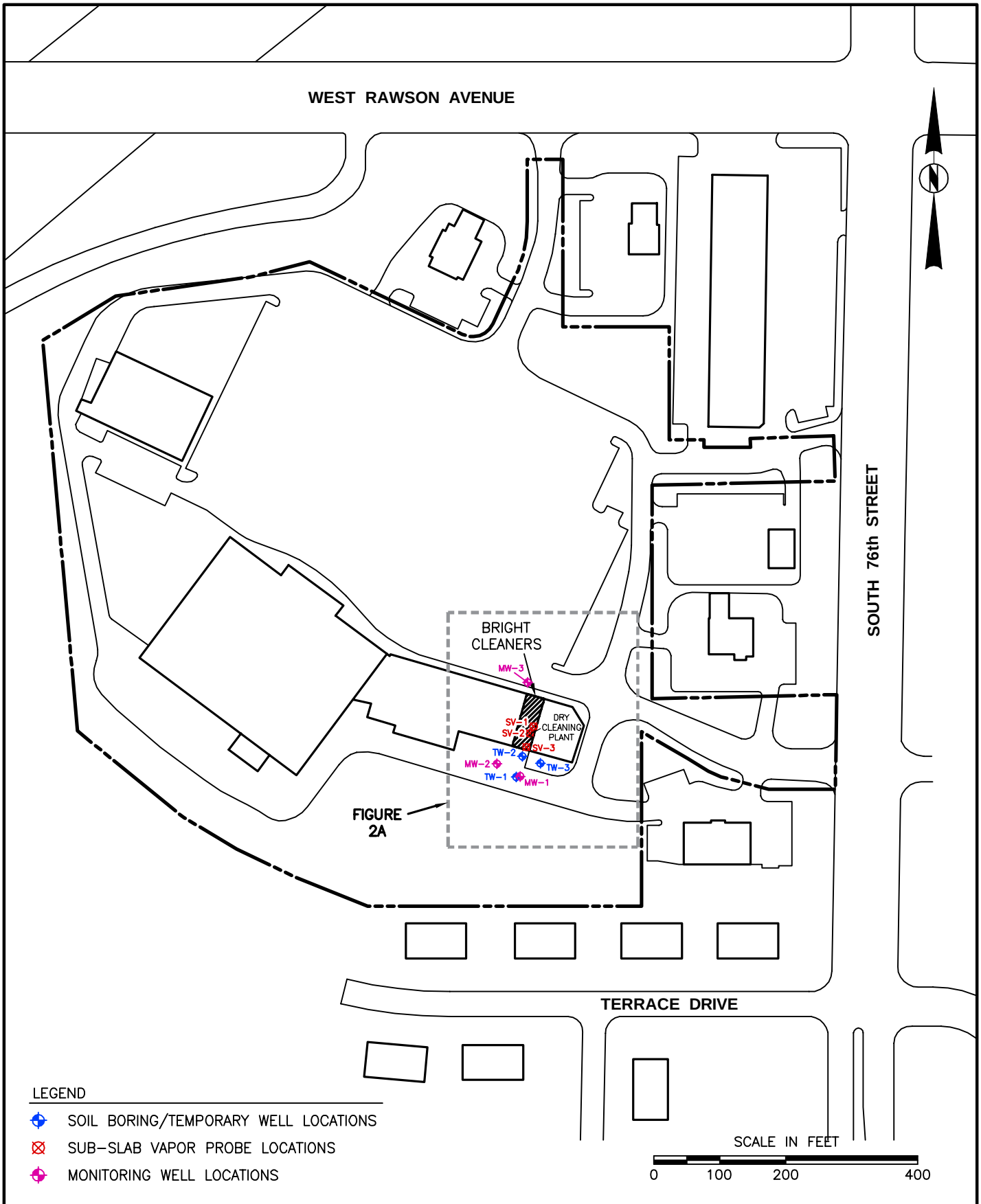
SITE LOCATION MAP

BRIGHT CLEANERS – FRANKLIN
7249 SOUTH 76th STREE
FRANKLIN, WISCONSIN

APEX

FIGURE

1



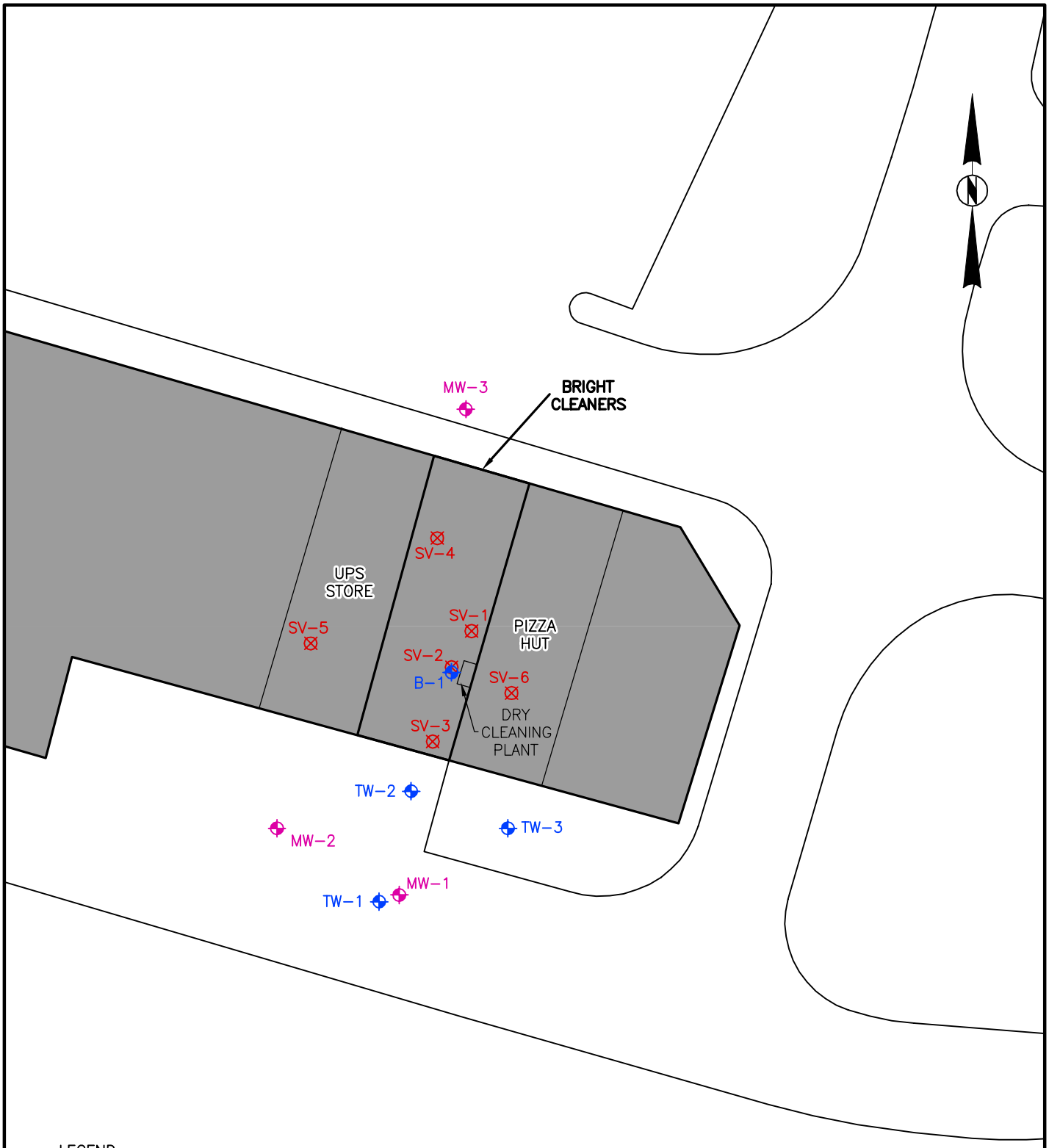
CHECK BY	JB
DRAWN BY	OS
DATE	08-30-17
SCALE	AS SHOWN
CAD NO.	PECO_2017.68A
PRJ NO.	PECO_2017.68

SITE PLAN

BRIGHT CLEANERS – FRANKLIN
7249 SOUTH 76th STREET
FRANKLIN, WISCONSIN

APEX

FIGURE
2



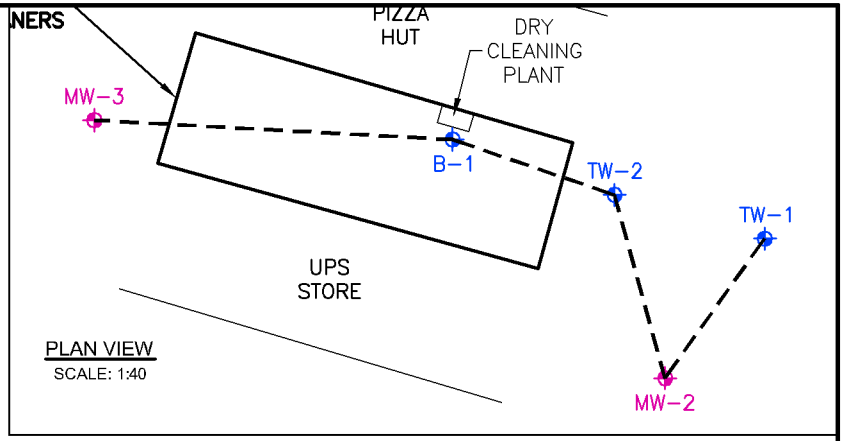
CHECK BY	JB
DRAWN BY	OS
DATE	08-30-17
SCALE	AS SHOWN
CAD NO.	PECO_2017.68A
PRJ NO.	PECO_2017.68

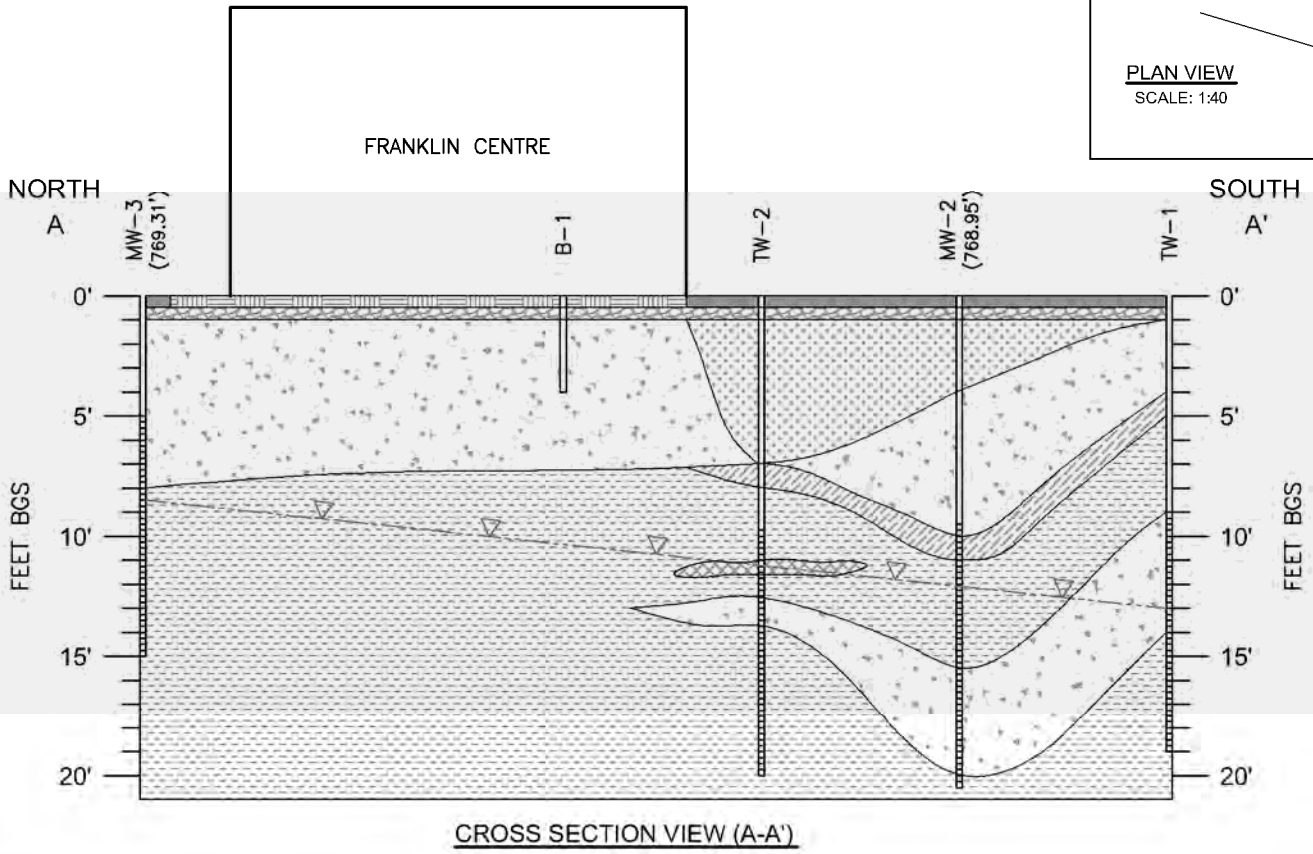
SITE DETAIL

BRIGHT CLEANERS – FRANKLIN CENTRE
7249 SOUTH 76th STREET
FRANKLIN, WISCONSIN

APEX

FIGURE
3





CROSS SECTION VIEW (A-A')

SCALE IN FEET

0 4 8 16

LEGEND

- AGGREGATE
- ASPHALT
- CLAYEY SAND
- CLAYEY SILT
- CONCRETE
- FILL MATERIAL
- SILTY CLAY
- SILTY SAND
- GROUNDWATER ELEVATION MEASURED ON SEPTEMBER 15, 2017

CHK BY	JB
DWN BY	EM
DATE	10-23-17
SCALE	AS SHOWN
CAD NO.	PECO_2017-68
PRJ NO.	PECO.2017.68B

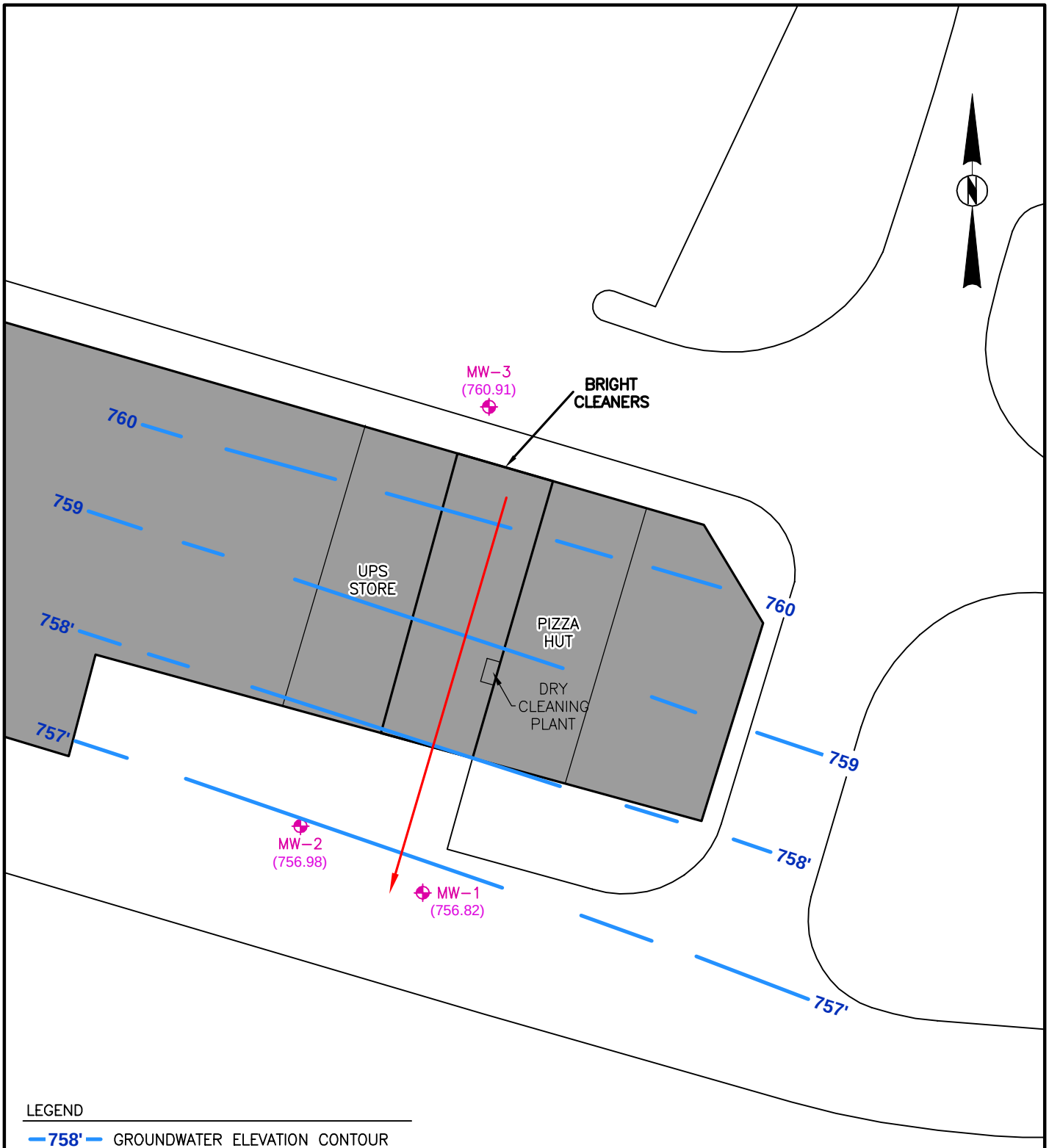
CROSS SECTION A-A'

BRIGHT CLEANERS - FRANKLIN
7249 SOUTH 76TH STREET
FRANKLIN, WISCONSIN

APEX

FIGURE

4



LEGEND

758'	GROUNDWATER ELEVATION CONTOUR
(756.82)	GROUDWATER ELEVATION AMSL
	MONITORING WELL LOCATIONS
	GROUNDWATER FLOW DIRECTION
	CONTOUR INTERVAL=1'

SCALE IN FEET

0 20 40 80

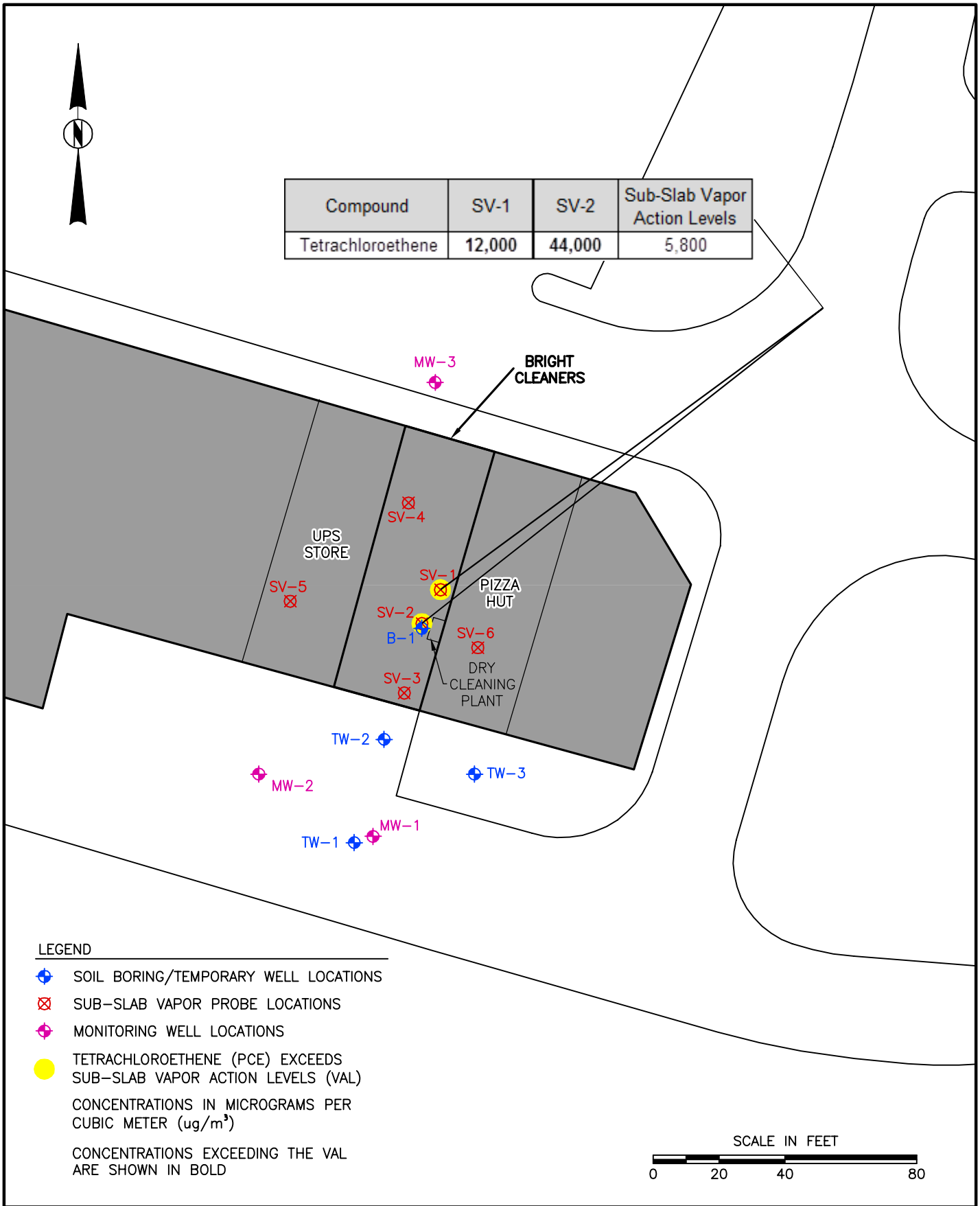
CHECK BY	JB
DRAWN BY	OS
DATE	08–30–17
SCALE	AS SHOWN
CAD NO.	PECO_2017.68A
PRJ NO.	PECO_2017.68

SITE DETAIL SHOWING GROUNDWATER CONTOUR LEVELS MEASURED ON AUGUST 17, 20016

BRIGHT CLEANERS – FRANKLIN CENTRE
7249 SOUTH 76th STREET
FRANKLIN, WISCONSIN

APEX

FIGURE
5



CHECK BY	JB
DRAWN BY	EM
DATE	10-25-17
SCALE	AS SHOWN
CAD NO.	PECO_2017.68C
PRJ NO.	PECO_2017.68

SITE DETAIL SHOWING SOIL VAPOR SAMPLE LOCATIONS WHERE PCE EXCEEDS THE VAL

BRIGHT CLEANERS – FRANKLIN CENTRE
7249 SOUTH 76th STREET
FRANKLIN, WISCONSIN

APEX

FIGURE
6

Data Tables

Table 1

Summary of Soil Data for
Volatile Organic Compounds (VOCs)
EPA Method 5035/8260B
Bright Cleaners - Franklin Centre
7249 South 76th Street, Franklin, Wisconsin

concentrations in milligrams per kilogram (mg/kg)

Boring Number	TW-1	TW-2	TW-3	Residual Contaminant Levels		
				Direct Contact		Soil to Groundwater
Sample Depth (feet bgs)	14	11	12	Non-Industrial	Industrial	
Date Collected	8/31/2016					
Acetone	**0.029**	< 0.0016	< 0.0018	63,400	100,000	1.8383
Benzene	**0.0018**	**0.00044**	**0.00045**	1.6	7.07	0.0026
Bromodichloromethane	< 0.00039	< 0.00028	< 0.00031	0.418	1.83	0.0002
Bromoform	< 0.00039	< 0.00028	< 0.00031	25.4	113	0.0012
Bromomethane	< 0.00049	< 0.00035	< 0.00039	9.6	43	0.0025
2-Butanone	< 0.0015	< 0.0011	< 0.0012	28,400	28,400	0.833
Carbon disulfide	**0.00019**	**0.00051**	< 0.00015	738	738	0.2959
Carbon tetrachloride	< 0.00029	< 0.00021	< 0.00023	0.916	4.03	0.0019
Chlorobenzene	< 0.00019	< 0.00014	< 0.00015	370	761	0.0679
Chloroethane	< 0.00039	< 0.00028	< 0.00031	2,120	2,120	0.1133
Chloroform	< 0.00019	< 0.00014	< 0.00015	0.454	1.98	0.0017
Chloromethane	< 0.00029	< 0.00021	< 0.00023	159	669	0.0078
Dibromochloromethane	< 0.00039	< 0.00028	< 0.00031	8.28	38.9	0.016
1,1-Dichloroethane	< 0.00029	< 0.00021	< 0.00023	5.06	22.2	0.2417
1,2-Dichloroethane	< 0.00058	< 0.00042	< 0.00046	0.652	2.87	0.0014
1,1-Dichloroethene	< 0.00029	< 0.00021	< 0.00023	320	1,190	0.0025
cis-1,2-Dichloroethene	< 0.00029	< 0.00021	< 0.00023	156	2,340	0.0206
trans-1,2-Dichloroethene	< 0.00029	< 0.00021	< 0.00023	1,560	1,850	0.0313
1,2-Dichloropropane	< 0.00039	< 0.00028	< 0.00031	0.406	1.78	0.0017
cis-1,3-Dichloropropene	< 0.00019	< 0.00014	< 0.00015	1,210	1,210	0.0001
trans-1,3-Dichloropropene	< 0.00029	< 0.00021	< 0.00023	1,510	1,510	0.0001
Ethylbenzene	**0.00026**	< 0.00007	< 0.000077	8.02	35.4	0.785
2-Hexanone	< 0.00078	< 0.00056	< 0.00062	237	1,760	NE
4-Methyl-2-pentanone	< 0.00029	< 0.00021	< 0.00023	2,450	2,450	0.1126
Methylene Chloride	**0.0019**	< 0.00056	< 0.00062	61.8	1,150	0.0013
Methyl tertiary-butyl ether	< 0.00019	< 0.00014	< 0.00015	63.8	282	0.0135
Styrene	< 0.00019	< 0.00014	< 0.00015	867	867	0.11
1,1,2,2-Tetrachloroethane	< 0.00019	< 0.00014	< 0.00015	0.81	3.6	0.0000782
Tetrachloroethene	< 0.00029	< 0.00021	< 0.00023	33	145	0.0023
Toluene	**0.0017**	**0.00046**	**0.00041**	818	818	0.5536
1,1,1-Trichloroethane	< 0.00019	< 0.00014	< 0.00015	640	640	0.0701
1,1,2-Trichloroethane	< 0.00049	< 0.00035	< 0.00039	1.59	7.01	0.0016
Trichloroethene	< 0.00019	< 0.00014	< 0.00015	1.3	8.41	0.0018
Vinyl chloride	< 0.00039	< 0.00028	< 0.00031	0.067	2.08	0.000069
Xylenes (total)	< 0.00039	< 0.00028	< 0.00031	260	260	1.98

Table 1 (Continued)

Summary of Soil Data for
Volatile Organic Compounds (VOCs)
EPA Method 5035/8260B
Bright Cleaners - Franklin Centre
7249 South 76th Street, Franklin, Wisconsin

concentrations in milligrams per kilogram (mg/kg)

Boring Number	MW-1	MW-2	B-1	Residual Contaminant Levels		
				Direct Contact		Soil to Groundwater
Sample Depth (feet bgs)	4	6	2	Non-Industrial	Industrial	
Date Collected	8/11/2017					
Acetone	**0.075**	**0.025**	**0.064**	63,400	100,000	1.8383
Benzene	**0.0025**	**0.0021**	**0.0015**	1.6	7.07	0.0026
Bromodichloromethane	< 0.00036	< 0.00035	< 0.0003	0.418	1.83	0.0002
Bromoform	< 0.00036	< 0.00035	< 0.0003	25.4	113	0.0012
Bromomethane	< 0.00045	< 0.00043	< 0.00037	9.6	43	0.0025
2-Butanone	**0.011**	**0.0040**	**0.0099**	28,400	28,400	0.833
Carbon disulfide	< 0.00018	< 0.00017	< 0.00015	738	738	0.2959
Carbon tetrachloride	< 0.00027	< 0.00026	< 0.00022	0.916	4.03	0.0019
Chlorobenzene	< 0.00018	< 0.00017	< 0.00015	370	761	0.0679
Chloroethane	< 0.00036	< 0.00035	< 0.0003	2,120	2,120	0.1133
Chloroform	< 0.00018	< 0.00017	< 0.00015	0.454	1.98	0.0017
Chloromethane	< 0.00027	< 0.00026	< 0.00022	159	669	0.0078
Dibromochloromethane	< 0.00036	< 0.00035	< 0.0003	8.28	38.9	0.016
1,1-Dichloroethane	< 0.00027	< 0.00026	< 0.00022	5.06	22.2	0.2417
1,2-Dichloroethane	< 0.00054	< 0.00052	< 0.00045	0.652	2.87	0.0014
1,1-Dichloroethene	< 0.00027	< 0.00026	< 0.00022	320	1,190	0.0025
cis-1,2-Dichloroethene	< 0.00027	< 0.00026	< 0.00022	156	2,340	0.0206
trans-1,2-Dichloroethene	< 0.00027	< 0.00026	< 0.00022	1,560	1,850	0.0313
1,2-Dichloropropane	< 0.00036	< 0.00035	< 0.0003	0.406	1.78	0.0017
cis-1,3-Dichloropropene	< 0.00018	< 0.00017	< 0.00015	1,210	1,210	0.0001
trans-1,3-Dichloropropene	< 0.00027	< 0.00026	< 0.00022	1,510	1,510	0.0001
Ethylbenzene	**0.0013**	**0.00088**	**0.0010**	8.02	35.4	0.785
2-Hexanone	< 0.00072	< 0.00069	< 0.0006	237	1,760	NE
4-Methyl-2-pentanone	< 0.00027	< 0.00026	< 0.00022	2,450	2,450	0.1126
Methylene Chloride	**0.0015**	< 0.00069	< 0.0006	61.8	1,150	0.0013
Methyl tertiary-butyl ether	< 0.00018	< 0.00017	< 0.00015	63.8	282	0.0135
Styrene	< 0.00018	< 0.00017	< 0.00015	867	867	0.11
1,1,2,2-Tetrachloroethane	< 0.00018	< 0.00017	< 0.00015	0.81	3.6	0.0000782
Tetrachloroethene	< 0.00027	< 0.00026	**0.00067**	33	145	0.0023
Toluene	**0.0044**	**0.0028**	**0.0028**	818	818	0.5536
1,1,1-Trichloroethane	< 0.00018	< 0.00017	< 0.00015	640	640	0.0701
1,1,2-Trichloroethane	< 0.00045	< 0.00043	< 0.00037	1.59	7.01	0.0016
Trichloroethene	< 0.00018	< 0.00017	**0.0010**	1.3	8.41	0.0018
Vinyl chloride	< 0.00036	< 0.00035	< 0.0003	0.067	2.08	0.000069
Xylenes (total)	**0.0025**	**0.0012**	**0.0014**	260	260	1.98

Notes:

bgs = feet below ground surface

TW-2 = Soil boring

< = Not Detected: Concentration less than the indicated laboratory detection limit

Detected compounds are shown as **bold**

NE = Remedial Objective not established

RCLs (Non-Industrial Direct-Contact) = Residual Contaminant Levels per the U.S. EPA's Regional Screening Level Web-Calculator (updated March 2017) in accordance with Wisconsin Administrative Code NR 720

RCLs (Industrial Direct-Contact) = Residual Contaminant Levels per the U.S. EPA's Regional Screening Level Web-Calculator (updated March 2017) in accordance with Wisconsin Administrative Code NR 720

RCLs (Soil to Groundwater) = Soil to Groundwater Residual Contaminant Levels per the U.S. EPA Regional Screening Level Web-Calculator (updated June 2016) in accordance with Wisconsin Administrative Code NR 720

Concentrations in excess of RCLs are shaded yellow

Exceeded RCLs are shaded green

Table 2

Summary of Groundwater Data for
Volatile Organic Compounds (VOCs)
EPA Method 8260B
Bright Cleaners - Franklin Centre
7249 South 76th Street, Franklin, Wisconsin

concentrations in milligrams per liter (µg/L)

Well Number	TW-1	TW-3	MW-1	Duplicate (MW-1)	Groundwater Quality Standards		Vapor Risk Screening
					Enforcement Standards	Preventative Action Limit	Commercial
Date Collected	8/31/2016		8/17/2017				
Acetone	< 3.1	**12**	< 3.1	< 3.1	9,000	1,800	95,000,000
Benzene	< 0.2	**0.24**	< 0.2	< 0.2	5	0.5	69
Bromodichloromethane	< 0.2	< 0.2	< 0.2	< 0.2	0.6	0.06	38
Bromoform	< 0.3	< 0.3	< 0.3	< 0.3	4.4	0.44	5,100
Bromomethane	< 2	< 2	< 2	< 2	10	1	73
2-Butanone	< 1.6	< 1.6	< 1.6	< 1.6	4,000	800	9,400,000
Carbon disulfide	< 0.3	**0.34**	< 0.3	< 0.3	1,000	200	5,200
Carbon tetrachloride	< 1	< 1	< 1	< 1	5	0.5	18
Chlorobenzene	< 0.2	< 0.2	< 0.2	< 0.2	100	20	1,700
Chloroethane	< 0.5	< 0.5	< 0.5	< 0.5	400	80	97,000
Chloroform	< 0.1	< 0.1	< 0.1	< 0.1	6	0.6	36
Chloromethane	< 0.3	< 0.3	< 0.3	< 0.3	30	3	1,100
Dibromochloromethane	< 0.2	< 0.2	< 0.2	< 0.2	60	6	NE
1,1-Dichloroethane	< 0.2	< 0.2	< 0.2	< 0.2	850	85	330
1,2-Dichloroethane	< 0.2	< 0.2	< 0.2	< 0.2	5	0.5	98
1,1-Dichloroethene	< 0.4	< 0.4	< 0.4	< 0.4	7	0.7	820
cis-1,2-Dichloroethene	< 0.2	< 0.2	< 0.2	< 0.2	70	7	NE
trans-1,2-Dichloroethene	< 0.5	< 0.5	< 0.5	< 0.5	100	20	NE
1,2-Dichloropropane	< 0.1	< 0.1	< 0.1	< 0.1	5	0.5	150
cis-1,3-Dichloropropene	< 0.2	< 0.2	< 0.2	< 0.2	0.4	0.04	210
trans-1,3-Dichloropropene	< 0.1	< 0.1	< 0.1	< 0.1	0.4	0.04	210
Ethylbenzene	< 0.3	< 0.3	< 0.3	< 0.3	700	140	150
2-Hexanone	< 0.2	< 0.2	< 0.2	< 0.2	NE	NE	34,000
4-Methyl-2-pentanone	< 0.7	< 0.7	< 0.7	< 0.7	500	50	2,300,000
Methylene Chloride	< 0.2	< 0.2	< 0.2	< 0.2	5	0.5	20,000
Methyl tertiary-butyl ether	< 0.3	< 0.3	< 0.3	< 0.3	60	12	20,000
Styrene	< 0.3	< 0.3	< 0.3	< 0.3	100	10	39,000
1,1,2,2-Tetrachloroethane	< 0.1	< 0.1	< 0.1	< 0.1	0.2	0.02	140
Tetrachloroethene	< 0.3	< 0.3	< 0.3	< 0.3	5	0.5	240
Toluene	< 0.4	< 0.4	< 0.4	< 0.4	800	160	81,000
1,1,1-Trichloroethane	< 0.2	< 0.2	< 0.2	< 0.2	200	40	31,000
1,1,2-Trichloroethane	< 0.1	< 0.1	< 0.1	< 0.1	5	0.5	26
Trichloroethene	< 0.3	< 0.3	< 0.3	< 0.3	5	0.5	22
Vinyl chloride	< 0.3	< 0.3	< 0.3	< 0.3	0.2	0.02	25
Xylenes (total)	< 1	< 1	< 1	< 1	2,000	400	1,600

Table 2 (Continued)

Summary of Groundwater Data for
Volatile Organic Compounds (VOCs)
EPA Method 8260B
Bright Cleaners - Franklin Centre
7249 South 76th Street, Franklin, Wisconsin

concentrations in milligrams per liter (µg/L)

Well Number	MW-2	MW-3	Trip Blank		Groundwater Quality Standards		Vapor Risk Screening
					Enforcement Standards	Preventative Action Limit	Commercial
Date Collected	8/17/2017						
Acetone	< 3.1	< 3.1	< 3.1		9,000	1,800	95,000,000
Benzene	< 0.2	< 0.2	< 0.2		5	0.5	69
Bromodichloromethane	< 0.2	< 0.2	< 0.2		0.6	0.06	38
Bromoform	< 0.3	< 0.3	< 0.3		4.4	0.44	5,100
Bromomethane	< 2	< 2	< 2		10	1	73
2-Butanone	< 1.6	< 1.6	< 1.6		4,000	800	9,400,000
Carbon disulfide	< 0.3	< 0.3	< 0.3		1,000	200	5,200
Carbon tetrachloride	< 1	< 1	< 1		5	0.5	18
Chlorobenzene	< 0.2	< 0.2	< 0.2		100	20	1,700
Chloroethane	< 0.5	< 0.5	< 0.5		400	80	97,000
Chloroform	< 0.1	< 0.1	< 0.1		6	0.6	36
Chloromethane	< 0.3	< 0.3	< 0.3		30	3	1,100
Dibromochloromethane	< 0.2	< 0.2	< 0.2		60	6	NE
1,1-Dichloroethane	< 0.2	< 0.2	< 0.2		850	85	330
1,2-Dichloroethane	< 0.2	< 0.2	< 0.2		5	0.5	98
1,1-Dichloroethene	< 0.4	< 0.4	< 0.4		7	0.7	820
cis-1,2-Dichloroethene	< 0.2	< 0.2	< 0.2		70	7	NE
trans-1,2-Dichloroethene	< 0.5	< 0.5	< 0.5		100	20	NE
1,2-Dichloropropane	< 0.1	< 0.1	< 0.1		5	0.5	150
cis-1,3-Dichloropropene	< 0.2	< 0.2	< 0.2		0.4	0.04	210
trans-1,3-Dichloropropene	< 0.1	< 0.1	< 0.1		0.4	0.04	210
Ethylbenzene	< 0.3	< 0.3	< 0.3		700	140	150
2-Hexanone	< 0.2	< 0.2	< 0.2		NE	NE	34,000
4-Methyl-2-pentanone	< 0.7	< 0.7	< 0.7		500	50	2,300,000
Methylene Chloride	< 0.2	< 0.2	< 0.2		5	0.5	20,000
Methyl tertiary-butyl ether	< 0.3	< 0.3	< 0.3		60	12	20,000
Styrene	< 0.3	< 0.3	< 0.3		100	10	39,000
1,1,2,2-Tetrachloroethane	< 0.1	< 0.1	< 0.1		0.2	0.02	140
Tetrachloroethene	< 0.3	< 0.3	< 0.3		5	0.5	240
Toluene	< 0.4	< 0.4	< 0.4		800	160	81,000
1,1,1-Trichloroethane	< 0.2	< 0.2	< 0.2		200	40	31,000
1,1,2-Trichloroethane	< 0.1	< 0.1	< 0.1		5	0.5	26
Trichloroethene	< 0.3	< 0.3	< 0.3		5	0.5	22
Vinyl chloride	< 0.3	< 0.3	< 0.3		0.2	0.02	25
Xylenes (total)	< 1	< 1	< 1		2,000	400	1,600

Notes:

TW-3 = Temporary monitoring well

< = Not Detected: Concentration less than the indicated laboratory detection limit.

Detected concentrations are shown in **bold**.

NE = Remedial Objective not established.

Groundwater Quality Standards cited in Wisconsin Administrative Code NR 140.10 Table 1

Vapor Risk Screening Levels for groundwater with a commercial property use based on the U.S. EPA Vapor Intrusion Screening Level Calculator (Version 3.5.2, October 2017) with an excess lifetime cancer risk of 1 x 10^{5} in accordance with Wisconsin Administrative Code NR 716

Concentrations in excess of GQSs and/or VRSLs are shaded yellow (none detected)

Exceeded GQSs and/or VRSLs are shaded green

Table 3

Summary of Soil Gas Data for
Volatile Organic Compounds (VOCs)
EPA Method TO-15
Bright Cleaners - Franklin Centre
7249 South 76th Street, Franklin, Wisconsin

concentrations in micrograms per cubic meter ($\mu g/m^3$)

Sub-slab Sample Number	SV-1	SV-2	SV-3	SV-4	SV-5	SV-6	Sub-Slab Vapor Action Levels
Date Collected	8/31/2016			8/14/2017			
Acetone	**82**	**140**	**100**	**16**	**14**	**5.3**	4,500,000
Benzene	**2.9**	**1.4**	**3.4**	**0.26**	**0.26**	**0.12**	520
Benzyl chloride	< 2.4	< 1.9	< 2.6	< 1.3	< 1.3	< 0.59	83
Bromodichloromethane	< 0.21	< 0.17	< 0.23	< 0.28	< 0.28	< 0.13	110
Bromoform	< 0.25	< 0.2	< 0.28	< 0.41	< 0.41	< 0.19	3,700
Bromomethane	**0.54**	**0.50**	**0.79**	**0.47**	< 0.37	**0.22**	730
1,3-Butadiene	< 0.13	< 0.11	< 0.14	< 0.42	< 0.42	< 0.19	140
2-Butanone	**6.7**	**7.7**	**12**	**1.7**	< 0.99	**0.72**	730,000
Carbon disulfide	**0.50**	< 0.29	**0.48**	< 0.26	< 0.26	< 0.12	100,000
Carbon tetrachloride	< 0.41	< 0.33	< 0.45	< 1.2	< 1.1	< 0.53	680
Chlorobenzene	< 0.13	< 0.11	< 0.14	< 0.94	< 3.7	< 0.43	7,300
Chloroethane	< 1.2	< 0.98	< 1.3	< 0.44	< 0.43	< 0.2	1,500,000
Chloroform	**0.22**	**0.36**	**0.62**	< 0.22	< 0.22	**0.37**	180
Chloromethane	< 0.24	< 0.19	< 2.6	< 0.95	< 0.95	< 0.44	13,000
Cyclohexane	**2.5**	**1.3**	**4.6**	< 0.6	< 0.59	< 0.27	880,000
Dibromochloromethane	< 0.32	< 0.25	< 0.35	< 0.43	< 0.43	< 0.2	NE
1,2-Dibromoethane	< 0.4	< 0.32	< 0.44	< 0.68	< 0.68	< 0.31	6.8
1,1-Dichloroethane	< 0.09	< 0.073	< 0.1	< 0.14	< 0.14	< 0.066	2,600
1,2-Dichlorobenzene	**0.42**	< 0.19	< 0.26	< 0.39	< 0.39	< 0.18	29,000
1,3-Dichlorobenzene	**1.9**	**1.1**	**4.9**	< 0.37	< 0.36	< 0.17	NE
1,4-Dichlorobenzene	< 0.29	< 0.24	< 0.32	< 0.42	< 0.42	< 0.19	370
Dichlorodifluoromethane	**2.3**	**2.3**	**2.1**	**2.0**	**2.0**	**2.2**	15,000
1,2-Dichloroethane	< 0.21	< 0.17	< 0.23	< 0.38	< 0.68	< 0.18	160
1,1-Dichloroethene	< 0.12	< 0.093	< 0.13	< 0.2	< 0.2	< 0.094	29,000
cis-1,2-Dichloroethene	**1.7**	**18**	**32**	< 0.63	< 0.62	< 0.29	NE
trans-1,2-Dichloroethene	< 0.13	**0.15**	< 0.14	< 0.22	< 0.22	< 0.1	NE
1,2-Dichloropropane	< 0.15	< 0.12	< 0.16	< 0.7	< 0.69	< 0.32	580
cis-1,3-Dichloropropene	< 0.25	< 0.2	< 0.27	< 0.44	< 0.44	< 0.2	1,000
trans-1,3-Dichloropropene	< 0.28	< 0.23	< 0.32	< 3.7	< 3.7	< 1.7	1,000
1,4-Dioxane	< 0.48	**2.7**	**2.4**	< 1.2	< 1.1	< 0.54	820
Ethyl acetate	< 0.33	< 0.27	< 0.37	< 1	< 1	< 0.48	10,000
Ethylbenzene	**3.9**	**2.8**	**6.1**	< 0.26	< 0.26	< 0.12	1,600
4-Ethyltoluene	**1.4**	**0.91**	**1.6**	< 0.42	< 0.42	< 0.19	NE
Freon-113	< 0.13	**0.57**	**0.59**	**0.31**	**0.62**	**0.57**	730,000
Freon-114	< 0.46	< 0.37	< 0.51	< 0.29	< 0.29	< 0.13	NE
Heptane	**5.5**	**2.7**	**13**	< 0.28	< 0.28	< 0.13	NE
Hexachlorobutadiene	**0.74**	< 0.45	< 0.61	< 0.9	< 0.9	< 0.41	190
Hexane	**6.4**	**2.7**	**11**	< 0.5	< 0.5	< 0.23	100,000
2-Hexanone	**3.1**	**2.9**	**4.9**	< 2.1	< 2.1	< 0.97	4,400
Isopropyl alcohol	**310**	**110**	**65**	**50**	**36**	**0.64**	29,000
4-Methyl-2-pentanone	**12**	**6.1**	**9.4**	< 1.1	< 1.1	< 0.52	440,000
Methylene Chloride	**0.96**	< 0.69	< 0.95	**4.0**	**3.8**	**2.0**	88,000
Methyl tertiary-butyl ether	**0.25**	**0.33**	**0.28**	< 0.17	< 0.17	< 0.076	16,000
Naphthalene	**2.8**	**1.8**	**4.1**	< 1.2	< 1.1	**0.59**	120
Propene	**6.3**	**3.6**	**5.5**	**0.42**	< 0.39	**0.23**	440,000
Styrene	**0.78**	**0.32**	**0.54**	< 0.82	< 0.81	< 0.38	150,000
1,1,2,2-Tetrachloroethane	< 0.22	< 0.18	< 0.24	< 0.38	< 0.38	< 0.18	70
Tetrachloroethene	**12,000**	**44,000**	**1,900**	**2,400**	**520**	**26**	5,800
Tetrahydrofuran	**8.4**	**4.1**	**5.6**	< 1.1	< 1.1	< 0.52	290,000
Toluene	**81**	**46**	**47**	< 0.35	< 0.34	< 0.16	730,000
1,2,4-Trichlorobenzene	**1.9**	**0.96**	**1.1**	< 1.1	< 1.1	< 0.53	290
1,1,1-Trichloroethane	< 0.13	< 0.11	< 0.14	< 0.21	**0.88**	< 0.098	730,000
1,1,2-Trichloroethane	< 0.24	< 0.19	< 0.26	< 0.56	< 0.56	< 0.26	29
Trichloroethene	**22**	**41**	**26**	**12**	**26**	< 0.15	290
Trichlorofluoromethane	**1.6**	**1.6**	**1.3**	**1.4**	**1.8**	**1.4**	NE
1,2,4-Trimethylbenzene	**5.1**	**3.9**	**7.5**	**0.40**	< 0.22	**0.37**	8,800
1,3,5-Trimethylbenzene	**1.4**	**0.91**	**2.0**	< 0.28	< 0.27	< 0.13	NE
Vinyl acetate	< 0.22	< 0.18	< 0.24	< 1.1	< 1.1	< 0.53	29,000
Vinyl chloride	< 0.099	< 0.08	< 0.11	< 0.18	< 0.17	< 0.081	930
m,p-Xylene	**8.8**	**6.0**	**12**	< 0.44	< 0.44	**0.24**	15,000
o-Xylene	**3.6**	**2.4**	**4.8**	< 0.23	< 0.22	**0.16**	15,000
Xylenes (total)	**12**	**8.5**	**17**	< 0.65	< 0.65	**0.41**	15,000

Notes:

SV-2 = Sub-slab vapor sample

< = Not Detected: Concentration less than the indicated laboratory detection limit.

Detected concentrations are shown in **bold**.

NE = Remedial Objective not established.

Sub-Slab Vapor Action Levels for a commercial property use based on the U.S. EPA Vapor Instrusion Screening Level Calculator (Version 3.5.2, October 2017) with an excess lifetime cancer risk of 1 x 10^{-5} in accordance with Wisconsin Administrative Code NR 716

Concentrations in excess of Remediation Objectives are shaded yellow

Exceeded Remedial Objectives are shaded green

Appendix A

Site Photographs

PHOTO LOG FOR
BRIGHT CLEANERS – FRANLIN CENTRE
7249 SOUTH 76TH STREET, FRANKLIN, WISCONSIN

Photo No. 1 showing front of the Bright Cleaners tenant space, view to the south.	
Photo No. 2 showing the clearance of underground utilities in the rear of the Bright Cleaners tenant space using ground penetrating radar, view to the northeast. August 31, 2016	
Photo No. 3 showing the advancement of a boring (TW-1) in the driveway south of the Bright Cleaners tenant space, view to the east. August 31, 2016	

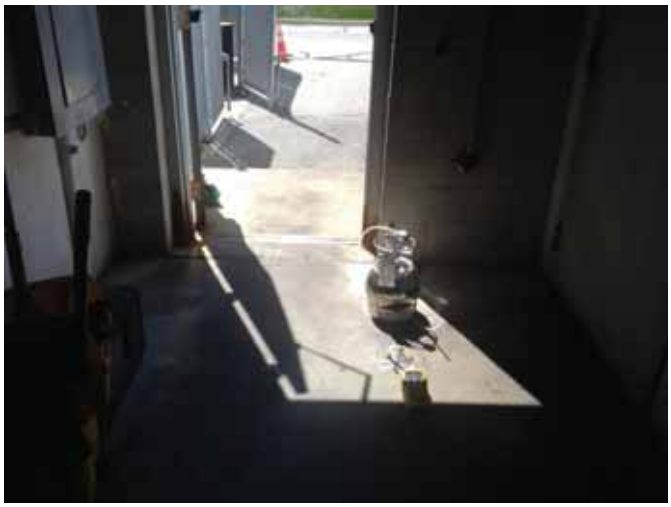
APEX

PHOTO LOG FOR
BRIGHT CLEANERS – FRANLIN CENTRE
7249 SOUTH 76TH STREET, FRANKLIN, WISCONSIN

Photo No. 4 showing a temporary well (TW-1, red arrow) in the driveway south of the Bright Cleaners tenant space in the foreground and the advancement of a boring (TW-3) in the background, view to the northeast. August 31, 2016	
Photo No. 5 showing a temporary well (TW-2, red arrow) located near the rear door of the Bright Cleaners tenant space, view to the north. August 31, 2016	
Photo No. 6 showing the interior of the Bright Cleaners tenant space with the dry cleaning plant on the right, view to the north.	

APEX

PHOTO LOG FOR
BRIGHT CLEANERS – FRANLIN CENTRE
7249 SOUTH 76TH STREET, FRANKLIN, WISCONSIN

Photo No. 7 showing a sub-slab vapor probe (SV-2) installed next to the dry cleaning plant. Leak testing is being performed on the probe by mechanical means using the water dam method. August 31, 2016	
Photo No. 8 showing a Summa® canister sample train being leak tested with a shut-in test by applying a negative pressure using a syringe and plunger.	
Photo No. 9 showing a vapor probe (SV-3) located near the rear door of the Bright Cleaners tenant space being purged and screened for volatile emissions using a photoionization detector prior to sample collection, view to the south. August 31, 2016	

APEX

PHOTO LOG FOR
BRIGHT CLEANERS – FRANLIN CENTRE
7249 SOUTH 76TH STREET, FRANKLIN, WISCONSIN

Photo No. 10 showing a sub-slab vapor probe installed north of the dry cleaning plant (SV-1) in the foreground and a second installed next to the plan (SV-2), view to the south. August 31, 2016	
Photo No. 11 showing the collection of a sub-slab vapor sample (SV-1) located north of the dry cleaning plant in the Bright Cleaners tenant space, view to the north. August 31, 2016	
Photo No. 12 showing the collection of a sub-slab vapor sample (SV-2) located adjacent to the dry cleaning plant in the Bright Cleaners tenant space, view to the north. August 31, 2016	

PHOTO LOG FOR
BRIGHT CLEANERS – FRANLIN CENTRE
7249 SOUTH 76TH STREET, FRANKLIN, WISCONSIN

Photo No. 13 showing a monitoring well (MW-1) being installed south of the Bright Cleaners tenant space, view to the west. August 11, 2017	
Photo No. 14 showing a monitoring well (MW-2) being installed southwest of the Bright Cleaners tenant space, view to the northeast. August 11, 2017	
Photo No. 15 showing a monitoring well (MW-3) being installed north of the Bright Cleaners tenant space, view to the south. August 11, 2017	

APEX

PHOTO LOG FOR
BRIGHT CLEANERS – FRANLIN CENTRE
7249 SOUTH 76TH STREET, FRANKLIN, WISCONSIN

Photo No. 16 showing a vapor probe (SV-4) located in the northern portion of the Bright Cleaners tenant space being purged and screened for volatile emissions using a photoionization detector prior to sample collection, view to the south. August 14, 2017	

Photo No. 17 showing a vapor probe (SV-6) located in the Pizza Hut tenant space being purged and screened for volatile emissions using a photoionization detector prior to sample collection, view to the west. August 14, 2017	

Appendix B

Field Protocols, Soil-Gas Sample Logs & Well Data Sheets

SUMMARY OF FIELD PROTOCOLS
ADDITIONAL SUBSURFACE INVESTIGATION
BRIGHT CLEANERS – FRANKLIN CENTRE
7249 SOUTH 76TH STREET
FRANKLIN, MILWAUKEE COUNTY, WISCONSIN

Franklin Station LLC (Client) retained Apex Companies, LLC (Apex) to perform subsurface environmental assessment and pursue agency closure for the Bright Cleaners tenant at a 14.6-acre multi-tenant shopping center located at 7249 South 76th Street in Franklin, Wisconsin (the Site). We understand that Client recently acquired the Site for continued use as a multi-tenant retail shopping center.

Apex previously conducted a Limited Phase II Subsurface Investigation in the vicinity of the current dry cleaner tenant space in August 2016. The subsurface investigation detected tetrachloroethene (PCE) in soil gas at concentrations in excess of Wisconsin remediation objectives in two sub-slab soil gas samples. The additional subsurface investigation was conducted to delineate subsurface impacts due to the presence of the current Bright Cleaners operations, and to pursue agency closure regarding the release.

Additional subsurface assessment included performance of a non-invasive geophysical survey to clear underground utilities in the vicinity of soil borings; the collection of soil samples from three soil borings; installation/sampling of groundwater from three dedicated groundwater monitoring wells; installation/sampling of three permanent soil vapor extraction points; an elevation survey of the monitoring wells; water level measurement; and hydraulic conductivity testing.

Geophysical Survey

In an effort to avoid damaging substructures such as buried utilities at the Site, Apex retained Ground Penetrating Systems, Inc. (GPRS) to perform a non-invasive geophysical survey. The geophysical survey was performed using a combination of ground-penetrating radar (GPR) and radio detection (RD) techniques.

GPR transmits an electromagnetic pulse using a 400 MHz antenna through the ground and displays the reflection on a screen for immediate interpretation. GPR data was collected to evaluate the presence, depth and shape of subsurface targets (USTs, piping, buried foundations, etc.). The depth of exploration for GPR is typically limited to 5-7± feet below ground surface (bgs), depending on soil conditions.

RD techniques (RD-7000 Locator, or similar) are used to gauge the location of the buried metallic piping or conduits such as drain pipes. Radio detection involves induction of an electrical signal on metal objects (such as the ends of the piping or conduits) and tracing this signal using a hand-held detector.

Soil Sampling Using a Hydraulic Probe

To assess the presence of potential chemical impacts in shallow soil in the vicinity of the dry cleaner tenant space, Apex used a truck-mounted hydraulic probe (Geoprobe™ rig) and/or an electic jack

hammer with Geoprobe® rods to collect soil samples from four soil borings (B-1 and MW-1 through MW-3). Each of the borings was advanced to probe refusal, encountered at depths ranging from 4 to 18 feet bgs; copies of the boring logs are included in **Appendix C**.

Soil samples were collected continuously from ground surface to the bottom of each boring by pushing a 2-inch diameter by 5-foot long hollow-barreled sampler into/through the soil. Soil samples were collected in dedicated, disposable plastic liners contained in the sampler.

Lithologic Description

Soil samples were collected continuously from ground surface to the bottom of each boring for lithologic description and soil screening. An experienced geologist documented the subsurface conditions (soil type, photo-ionization detector [PID] measurements, the presence of staining, odors etc.). Our field observations and lithologic descriptions are summarized in the boring logs included in **Appendix C**.

Sample Screening/Selection

Soil samples were screened in the field for chemical odors, evidence of staining and volatile organic emissions using a PID equipped with a 10.6 eV PID lamp. The PID was calibrated using isobutylene calibration gas in accordance with the manufacturer's protocols prior to the start of fieldwork. Soil collected from various depth intervals in each boring was broken apart, placed and sealed in plastic 'ziploc' bags and after a few minutes volatile emissions were measured in the headspace using the PID. In the absence of such indications three representative soil samples were submitted for analysis. The results of the field screening are shown in Apex's boring logs, and Wisconsin DNR Soil Boring Log Information forms (Form 4400-122) in accordance with WAC NR 716.15(4)(g)(4), included in **Appendix C**.

Soil Sample Handling Procedures

A total of three soil samples were analyzed for volatile organic compounds (VOCs) by EPA Method 5035/8260. The samples were collected by pushing an Encore® sampler syringe into the soil to collect a 10 gram sample, the Encore® plunger was used to extrude the soil sample into clean, laboratory-supplied 40 milliliter (ml) VOA vials with methanol preservative. The VOA was immediately capped, labeled and placed in a chilled cooler for transport to the analytical laboratory. Soil samples for additional parameters were placed in clean, 4-ounce laboratory-supplied jars. Chain-of-custody protocols were maintained throughout the sample handing process.

Monitoring Well Construction

A Geoprobe rig was used to advance a borehole at each monitoring well location to document the soil conditions and to collect soil samples. A truck-mounted hollow-stem auger drill rig was then used at three locations (MW-1 through MW-3) to advance an 8-inch diameter borehole into the underlying aquifer zone; each well was installed to depths ranging from 15 to 20 feet bgs.

The monitoring wells were constructed using 2-inch diameter (schedule 40) PVC casing consisting of a 10-foot length of 0.010-inch factory slotted well screen with a blank riser. The filter pack, consisting of a sand pack, was placed around the well screen/riser extending 2-feet above the top of the screen.

The annulus of the borehole was then filled with bentonite chips (hydrated in place) to a depth of approximately 1-foot bgs, the remainder of the borehole was filled with cement. The wells were completed at ground surface using flush-mount well vaults set in cement. A magnet was placed in the void between the cover and the annular space seal in accordance with NR 716.13(14)(b). Copies of Apex's boring logs and well construction diagrams, and Wisconsin DNR Groundwater Monitoring Well Information form (Form 4400-89) and Monitoring Well Construction forms (Form 4400-113A) in accordance with WAC NR 716.15(4)(g)(2), are included in **Appendix C**.

Monitoring Well Development

Following installation, the monitoring wells were developed to remove sediment, consolidate the filter pack around the well screen and to improve hydraulic communication with the aquifer. Well development procedures consisted of the removal of approximately 2 to 6 well casing volumes of groundwater, and are documented in Wisconsin DNR Monitoring Well Development forms (Form 4400-113B) in accordance with WAC NR 716.15(4)(g)(3), included in **Appendix C**. Groundwater sampling was performed one week following well development.

Groundwater Sampling

Apex used a low-flow, peristaltic suction lift pump to purge two to three volumes of water from the well casing at a rate of ¼ gallon per minute prior to sampling. Clean, dedicated tubing was used at each well for well purging and water sampling. A multi-probe water quality meter was used to simultaneously measure pH, temperature, conductivity, dissolved oxygen and Oxidation-Reduction Potential. Once these parameters stabilized to within 10 percent on three consecutive measurements, the peristaltic pump was used to collect water samples. Groundwater parameter measurements are included in **Appendix B**.

Water samples collected for volatile organic compound (VOC) analysis were collected by filling 40-ml vials in a manner to minimize turbulence, air entrapment and overfilling. VOCs sample vials contained a hydrochloric acid preservative. The bottles were filled completely leaving a positive meniscus at the top of the vial. After capping, the vial was inverted and was tapped with a finger to confirm that air bubbles were not present. Effervesce was not observed in the vials following collection. Chain of custody documentation was maintained throughout the sample handling process. The sample vials and jars were then labeled and placed in a chilled cooler for transport to the analytical laboratory. As a quality assurance/quality control, Apex submitted one duplicate sample (from MW-1) and one trip blank for analysis.

Soil-Gas Sampling Procedures

Soil-gas samples were collected for analysis of VOCs including tetrachloroethene (PCE) and associated breakdown products from immediately below the concrete floor slab within the dry cleaner tenant space.

Apex advanced three soil-gas probes (SV-4 through SV-6) through the concrete floor slab at each location. A rotary hammer drill was used to advance a small diameter hole (5/8-inch) through the concrete slab or pavement into the underlying gravel-aggregate layer, approximately nine inches below the top of the hard surface. A 1-inch diameter hole was drilled in the same location to

approximately ½-inch below the top of the concrete floor for leak testing. The hole was then cleared of any debris prior to installing the soil gas probe. The soil gas probes consisted of a brass MIP adapter/compression coupling, covered with a silicone tube, which was inserted and seated firmly into the 5/8-inch diameter hole drilled through the hard surface. Leak testing was performed on each soil gas probe by mechanical means using the larger diameter hole as a water dam. The annulus of the 1-inch hole was filled with distilled water and monitored for fluctuations prior to and during sampling to verify that a leak had not occurred. Apex installed vapor pins in the concrete slab in 4 locations to allow for future sample collection, if warranted.

Prior to sample collection, the sub-slab gas probes were purged a minimum of three probe volumes of air from the sampling media to ensure representative samples of sub-slab soil gas and field screened for volatile organic emissions using a photoionization detector (PID) equipped with a 10.6 eV PID lamp. Soil gas samples were collected using batch-certified 6-liter Summa® canisters (evacuated stainless steel canister) with (30-minute) flow control valves with a flow rate of less than 200 milliliters per minute (mL/min). The laboratory-supplied regulator assembly was attached to the Summa® canister and a 3-foot section of 0.25-inch Teflon-lined polyethylene tubing was connected to the regulator using Swagelock® compression fittings. Leak testing was performed on each Summa® canister sample train prior to sample collection by performing a shut-in test. The shut-in test was performed by connecting the sample train tubing to a syringe and plunger. With the Summa® canister valve closed, a vacuum of approximately 20-inches mercury was applied to the sample train and maintained for 30 seconds. The pressure was observed to remain stable for the duration of the test. A photo log including photographs of the sub-slab soil gas sampling locations are included as **Appendix A**; soil-gas sampling details (i.e., results of field screening and leak testing; sample duration, initial and final canister pressures; and laboratory identification numbers) are recorded in the soil-gas sample logs included in **Appendix B**.

In areas where vapor pins were installed, the pins were capped to prevent transmission and covered with a secure stainless steel cover. The sample canisters were shipped to shipped to the analytical laboratory via Federal Express, accompanied by a completed chain-of-custody form. The samples were analyzed for VOCs by U.S. Environmental Protection Agency (EPA) Method TO-15 with a standard 5-day turnaround time.

Well Surveying and Water Level Measurement

The top of each monitoring well casing was surveyed for vertical control to an accuracy of 0.01-foot by SPACECO, Inc., a Wisconsin licensed surveyor. An electronic well sounder was used to measure to depth to groundwater from the top of the well casing to the top of shallow groundwater within an accuracy of 0.01-foot. The depth to water measurements was recorded in each well on August 14, August 17, and September 12, 2017. Stabilized water levels occurred at depths ranging from 8½ to 12 feet bgs, or 756.65 to 760.77 feet mean seal level (MSL). A summary of the well elevations provided by SPACECO, Inc., and the depth to groundwater and stabilized groundwater elevations are included in **Appendix D**.

Hydraulic Testing

To determine the hydraulic conductivity of the underlying aquifer Apex performed hydraulic testing in three dedicated monitoring wells (MW-1 through MW-3). A pressure transducer/data logger was

lowered below the water table and the water level was allowed to stabilize. The transducer/data logger was then connected to a Rugged Reader® using a waterproof coaxial cable. A quantity of water ('slug') was quickly removed from the well and rising head recovery rates were measured over time, until the water level recovered over the duration of the test. Due to the slow recovery, the test was performed only once in two monitoring wells (MW-1 and MW-3). A copy of the test parameters, field measurements, and head verses time data generated during the test runs are included in **Appendix D**.

SUB-SLAB SOIL GAS SAMPLE LOG

Project Name:	Bright Cleaners - Franklin Centre	Project Number:	PECO_2016-78
Vapor Point Installation Date:	August 31, 2016	Project Address:	7249 South 76th Street
Sub-Slab Sample Date:	August 31, 2016		Franklin, Wisconsin

SAMPLING INFORMATION

Soil Gas Implant Purge Air:	0 (Stabilized PID Reading (PPM))	3 (Volume (liters))	Sample Start Time:	August 31, 2016 (DATE)	12:28 (TIME)
Leak Test Method:	Shut-in Test (Sample Train)	Water Dam (Soil Gas Implant)	Sample End Time:	August 31, 2016 (DATE)	12:58 (TIME)
Shut-in Test:	-20 (Max. Vacuum (inches Hg))	30 (Test Duration (seconds))	Initial Canister Vacuum:	-35 (Inches Hg)	12:28 (TIME)
Leak Test Notes:	No Loss (Shut-in Test)	No Loss (Water Dam)	Final Canister Vacuum:	-15 (Inches Hg)	12:58 (TIME)
Sample Depth:	< 1 (Feet)		Sample Delivery:	August 31, 2016 (DATE)	16:45 (TIME)
Sample Container Details:	6 (Volume (liters))	30 (Flow Controler (minutes))	Delivery Method (FedEx, courier, etc.):	Delivered in person	

METEOROLOGICAL CONDITIONS FOR SAMPLING DAY

Ambient Temperature (°F):	64 (Low)	74 (High)	Sea Level Pressure (Inches)	30.08
Average Wind:	North-northeast (Direction)	11 (Velocity (mph))	Average Humidity (%):	67

ADDITIONAL DETAILS

Other details for tenant space (e.g. recent construction/renovation, cleaning activities, chemical storage, slab/foundation cracks, HVAC status etc.):

Sample was collected north of the dry cleaning plant.

Problems or inconsistancies encountered during sampling:

Not applicable

* Include a site sketch on separate sheet noting sample locations (with measurements), chemical storage areas, former operations areas, etc.

Sample Number:	SV-1	Analyses:	VOCs by EPA Sample Method TO-15
SUMMA ID Number:	4723 (60319)	Requested Turnaround Time:	1 Week TAT
Regulator ID Number:	B-07	Sample Crew:	Joe Becker

SUB-SLAB SOIL GAS SAMPLE LOG

Project Name:	Bright Cleaners - Franklin Centre	Project Number:	PECO_2016-78
Vapor Point Installation Date:	August 31, 2016	Project Address:	7249 South 76th Street
Sub-Slab Sample Date:	August 31, 2016		Franklin, Wisconsin

SAMPLING INFORMATION

Soil Gas Implant Purge Air:	0 (Stabilized PID Reading (PPM))	3 (Volume (liters))	Sample Start Time:	August 31, 2016 (DATE)	12:32 (TIME)
Leak Test Method:	Shut-in Test (Sample Train)	Water Dam (Soil Gas Implant)	Sample End Time:	August 31, 2016 (DATE)	13:02 (TIME)
Shut-in Test:	-18 (Max. Vacuum (inches Hg))	30 (Test Duration (seconds))	Initial Canister Vacuum:	-30 (Inches Hg)	12:32 (TIME)
Leak Test Notes:	No Loss (Shut-in Test)	No Loss (Water Dam)	Final Canister Vacuum:	-7 1/2 (Inches Hg)	13:02 (TIME)
Sample Depth:	< 1 (Feet)		Sample Delivery:	August 31, 2016 (DATE)	16:45 (TIME)
Sample Container Details:	6 (Volume (liters))	30 (Flow Controler (minutes))	Delivery Method (FedEx, courier, etc.):	Delivered in person	

METEOROLOGICAL CONDITIONS FOR SAMPLING DAY

Ambient Temperature (°F):	64 (Low)	74 (High)	Sea Level Pressure (Inches)	30.08
Average Wind:	North-northeast (Direction)	11 (Velocity (mph))	Average Humidity (%):	67

ADDITIONAL DETAILS

Other details for tenant space (e.g. recent construction/renovation, cleaning activities, chemical storage, slab/foundation cracks, HVAC status etc.):

Sample was collected next to the dry cleaning plant.

Problems or inconsistancies encountered during sampling:

Not applicable

* Include a site sketch on separate sheet noting sample locations (with measurements), chemical storage areas, former operations areas, etc.

Sample Number:	SV-2	Analyses:	VOCs by EPA Sample Method TO-15
SUMMA ID Number:	6054 (60339)	Requested Turnaround Time:	1 Week TAT
Regulator ID Number:	B-03	Sample Crew:	Joe Becker

SUB-SLAB SOIL GAS SAMPLE LOG

Project Name: Bright Cleaners - Franklin Centre
Project Number: PECO_2016-78
Vapor Point Installation Date: August 31, 2016
Project Address: 7249 South 76th Street
Sub-Slab Sample Date: August 31, 2016
Franklin, Wisconsin

SAMPLING INFORMATION

Soil Gas Implant Purge Air: 0 (Stabilized PID Reading (PPM)) 3 (Volume (liters))
Sample Start Time: August 31, 2016 (DATE) 12:34 (TIME)
Leak Test Method: Shut-in Test (Sample Train) Water Dam (Soil Gas Implant)
Sample End Time: August 31, 2016 (DATE) 13:04 (TIME)
Shut-in Test: -16 (Max. Vacuum (inches Hg)) 30 (Test Duration (seconds))
Initial Canister Vacuum: -32 (Inches Hg) 12:34 (TIME)
Leak Test Notes: No Loss (Shut-in Test) No Loss (Water Dam)
Final Canister Vacuum: -14 (Inches Hg) 13:04 (TIME)
Sample Depth: < 1 (Feet)
Sample Delivery: August 31, 2016 (DATE) 16:45 (TIME)
Sample Container Details: 6 (Volume (liters)) 30 (Flow Controler (minutes))
Delivery Method (FedEx, courier, etc.): Delivered in person

METEOROLOGICAL CONDITIONS FOR SAMPLING DAY

Ambient Temperature (°F): 64 (Low) 74 (High)
Sea Level Pressure (Inches) 30.08
Average Wind: North-northeast (Direction) 11 (Velocity (mph))
Average Humidity (%): 67

ADDITIONAL DETAILS

Other details for tenant space (e.g. recent construction/renovation, cleaning activities, chemical storage, slab/foundation cracks, HVAC status etc.):

Sample was collected south of the dry cleaning plant near the rear door.

Problems or inconsistancies encountered during sampling:

Not applicable

* Include a site sketch on separate sheet noting sample locations (with measurements), chemical storage areas, former operations areas, etc.

Sample Number: SV-3
Analyses: VOCs by EPA Sample Method TO-15
SUMMA ID Number: 2469 (60268)
Requested Turnaround Time: 1 Week TAT
Regulator ID Number: B-23
Sample Crew: Joe Becker

SUB-SLAB SOIL GAS SAMPLE LOG

Project Name:	Bright Cleaners - Franklin Centre	Project Number:	PECO_2017-68
Vapor Point Installation Date:	August 11, 2017	Project Address:	7201 South 76th Street
Sub-Slab Sample Date:	August 14, 2017		Franklin, Wisconsin

SAMPLING INFORMATION

Soil Gas Implant Purge Air:	0.9 (Stabilized PID Reading (PPM))	2 (Volume (liters))	Sample Start Time:	August 14, 2014 (DATE)	12:24 (TIME)
Leak Test Method:	Shut-in Test (Sample Train)	Water Dam (Soil Gas Implant)	Sample End Time:	August 14, 2014 (DATE)	12:54 (TIME)
Shut-in Test:	-17 (30)	30 (Test Duration (seconds))	Canister Vacuum:	-28 1/2 (Initial (Inches Hg))	-7 (Final (Inches Hg))
Leak Test Notes:	No Loss (Shut-in Test)	No Loss (Water Dam)	Analysis Details:	STAT Analysis Corporation (Laboratory)	Chicago, IL (Location)
Sample Depth:	< 1 (Feet)		Sample Delivery:	August 13, 2017 (DATE)	13:30 (TIME)
Sample Container Details:	6 (Volume (liters))	30 (Flow Controler (minutes))	Delivery Method (FedEx, courier, etc.):	Delivered in person	

METEOROLOGICAL CONDITIONS FOR SAMPLING DAY

Ambient Temperature (°F):	64 (Low)	78 (High)	Barometric Pressure / Humidity	985.54 (mBar)	51 (%)
Average Wind:	7 (Velocity (mph))	South-southwest (Direction)	Precipitation (Inches):	0.00 (Day of Sampling)	0.00 (Previous 48 Hours)

ADDITIONAL DETAILS

Other details for tenant space (e.g. recent construction/renovation, cleaning activities, chemical storage, slab/foundation cracks, HVAC status etc.):

Sample was collected near the front of the dry cleaner tenant space.

Problems or inconsistancies encountered during sampling:

* Include a site sketch on separate sheet noting sample locations (with measurements), chemical storage areas, former operations areas, etc.

Sample Number:	SV-4	Analyses:	VOCs by EPA Sample Method TO-15
SUMMA ID Number:	60256	Requested Turnaround Time:	1 Week TAT
Regulator ID Number:	7248443	Sample Crew:	Joe Becker

SUB-SLAB SOIL GAS SAMPLE LOG

Project Name:	Bright Cleaners - Franklin Centre	Project Number:	PECO_2017-68
Vapor Point Installation Date:	August 11, 2017	Project Address:	7201 South 76th Street
Sub-Slab Sample Date:	August 14, 2017		Franklin, Wisconsin

SAMPLING INFORMATION

Soil Gas Implant Purge Air:	0.1 (Stabilized PID Reading (PPM))	2 (Volume (liters))	Sample Start Time:	August 14, 2014 (DATE)	12:35 (TIME)
Leak Test Method:	Shut-in Test (Sample Train)	Water Dam (Soil Gas Implant)	Sample End Time:	August 14, 2014 (DATE)	13:06 (TIME)
Shut-in Test:	-17 (30)	30 (Test Duration (seconds))	Canister Vacuum:	-27 (Initial (Inches Hg))	-6 1/2 (Final (Inches Hg))
Leak Test Notes:	No Loss (Shut-in Test)	No Loss (Water Dam)	Analysis Details:	STAT Analysis Corporation (Laboratory)	Chicago, IL (Location)
Sample Depth:	< 1 (Feet)		Sample Delivery:	August 13, 2017 (DATE)	13:30 (TIME)
Sample Container Details:	6 (Volume (liters))	30 (Flow Controler (minutes))	Delivery Method (FedEx, courier, etc.):	Delivered in person	

METEOROLOGICAL CONDITIONS FOR SAMPLING DAY

Ambient Temperature (°F):	64 (Low)	78 (High)	Barometric Pressure / Humidity	985.54 (mBar)	51 (%)
Average Wind:	7 (Velocity (mph))	South-southwest (Direction)	Precipitation (Inches):	0.00 (Day of Sampling)	0.00 (Previous 48 Hours)

ADDITIONAL DETAILS

Other details for tenant space (e.g. recent construction/renovation, cleaning activities, chemical storage, slab/foundation cracks, HVAC status etc.):

Sample was collected near the rear of the UPS tenant space to the west of the dry cleaning tenant space.

Problems or inconsistancies encountered during sampling:

* Include a site sketch on separate sheet noting sample locations (with measurements), chemical storage areas, former operations areas, etc.

Sample Number:	SV-5	Analyses:	VOCs by EPA Sample Method TO-15
SUMMA ID Number:	60230	Requested Turnaround Time:	1 Week TAT
Regulator ID Number:	A0171584-1	Sample Crew:	Joe Becker

SUB-SLAB SOIL GAS SAMPLE LOG

Project Name:	Bright Cleaners - Franklin Centre	Project Number:	PECO_2017-68
Vapor Point Installation Date:	August 11, 2017	Project Address:	7201 South 76th Street
Sub-Slab Sample Date:	August 14, 2017		Franklin, Wisconsin

SAMPLING INFORMATION

Soil Gas Implant Purge Air:	0.0 (Stabilized PID Reading (PPM))	2 (Volume (liters))	Sample Start Time:	August 14, 2014 (DATE)	12:30 (TIME)
Leak Test Method:	Shut-in Test (Sample Train)	Water Dam (Soil Gas Implant)	Sample End Time:	August 14, 2014 (DATE)	13:01 (TIME)
Shut-in Test:	-13 (30)	30 (Test Duration (seconds))	Canister Vacuum:	-30 (Initial (Inches Hg))	-7 1/2 (Final (Inches Hg))
Leak Test Notes:	No Loss (Shut-in Test)	No Loss (Water Dam)	Analysis Details:	STAT Analysis Corporation (Laboratory)	Chicago, IL (Location)
Sample Depth:	< 1 (Feet)		Sample Delivery:	August 13, 2017 (DATE)	13:30 (TIME)
Sample Container Details:	6 (Volume (liters))	30 (Flow Controler (minutes))	Delivery Method (FedEx, courier, etc.):	Delivered in person	

METEOROLOGICAL CONDITIONS FOR SAMPLING DAY

Ambient Temperature (°F):	64 (Low)	78 (High)	Barometric Pressure / Humidity	985.54 (mBar)	51 (%)
Average Wind:	7 (Velocity (mph))	South-southwest (Direction)	Precipitation (Inches):	0.00 (Day of Sampling)	0.00 (Previous 48 Hours)

ADDITIONAL DETAILS

Other details for tenant space (e.g. recent construction/renovation, cleaning activities, chemical storage, slab/foundation cracks, HVAC status etc.):

Sample was collected near the rear of the Pizza Hut tenant space to the east of the dry cleaning tenant space.

Problems or inconsistancies encountered during sampling:

* Include a site sketch on separate sheet noting sample locations (with measurements), chemical storage areas, former operations areas, etc.

Sample Number:	SV-6	Analyses:	VOCs by EPA Sample Method TO-15
SUMMA ID Number:	60223	Requested Turnaround Time:	1 Week TAT
Regulator ID Number:	A01158-4	Sample Crew:	Joe Becker

	Well I.D.	MW-1	Job Number:	PECO_2017-68	
	Client:	Phillips Edison & Company	Date:	Thursday, August 17, 2017	
	Project:	Franklin Centre	Sampler:	Joe Becker	
	Weather:	75°, Mostly Cloudy	Time In/Out:	11:25 / 12:10	

WELL DATA

Well Depth (f):	19.5	Well Diameter (in):	2	Water Height (ft):	7.62
Depth to Water (ft):	11.88	Screened Interval (ft bgs):	9-1/2 to 19-1/2	x Multiplier	0.163
Water Column Length (ft):	7.62	Depth to Free Product:	Not Encountered	x Casing Volumes	3
Purge Volume (L):	14 1/2	Free Product Thickness:	N/A	=Purge Volumes (L)	14
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method:	Peristaltic Pump	Pump Intake Depth (ft):	19
Sampling Method:	Peristaltic Pump	Tubing Type:	Low Density Polyethylene

Comments:

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (L/min)	pH	Temp (°C)	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTU's)	Clarity/Color Other Remarks
					+/-0.2	+/-0.5°C	+/-5%	+/-0.5	+/-20mV	+/-10%	<--Stabilization Criterial
11:34	1	1	12.42	1/2	7.14	18.30	5.7	0.31	-59.7	--	Clear
11:37	1 1/2	2 1/2	13.07	1/2	6.89	17.20	5.9	0.30	-46.7	--	Clear
11:40	1 1/2	4	13.41	1/2	6.83	17.20	5.9	0.48	-40.1	--	Clear
11:43	1 1/2	5 1/2	13.79	1/2	6.81	16.89	6.0	0.56	-40.6	--	Clear
11:46	1 1/2	7	13.92	1/2	6.81	16.91	6.0	0.63	-41.2	--	Clear
11:49	1 1/2	8 1/2	14.37	1/2	6.80	16.80	5.9	0.76	-41.3	--	Clear
11:52	1 1/2	10	14.70	1/2	6.81	16.93	5.9	0.75	-18.4	--	Clear
11:55	1 1/2	11 1/2	14.85	1/2	6.81	16.84	5.8	0.75	-41.1	--	Clear
11:58	1 1/2	13	15.02	1/2	6.81	17.06	5.8	0.78	-42.8	--	Clear
12:01	1 1/2	14 1/2	15.15	1/2	6.82	17.20	5.7	0.80	-42.2	--	Clear

Clarity: VC = very cloudy, CL = cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID:	MW-1	Sampling Flow Rate:	250 mL/min	Analytical Laboratory:	Pace Analytical
Sample Time:	12:05	Final Depth to Water:	15.15	Did Well Dewater?	No

# Containers/Type	Perservative	Analysis/ Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
3 / 40 mL Glass	HCl	VOCs	No	Not Applicable		Duplicate

COMMENTS

Well I.D.	MW-2	Job Number:	PECO_2017-68
Client:	Phillips Edison & Company	Date:	Thursday, August 17, 2017
Project:	Franklin Centre	Sampler:	Joe Becker
Weather:	75°, Mostly Cloudy	Time In/Out:	10:40 / 11:20

WELL DATA

Well Depth (f):	19.5	Well Diameter (in):	2	Water Height (ft):	7.53
Depth to Water (ft):	11.97	Screened Interval (ft bgs):	9-1/2 to 19-1/2	x Multiplier	0.163
Water Column Length (ft):	7.53	Depth to Free Product:	Not Encountered	x Casing Volumes	3
Purge Volume (L):	14 1/2	Free Product Thickness:	N/A	=Purge Volumes (L)	14
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method:	Peristaltic Pump	Pump Intake Depth (ft):	19
Sampling Method:	Peristaltic Pump	Tubing Type:	Low Density Polyethylene

Comments:

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (L/min)	pH	Temp (°C)	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTU's)	Clarity/Color Other Remarks
					+/-0.2	+/-0.5°C	+/-5%	+/-0.5	+/-20mV	+/-10%	<--Stabilization Criterial
10:51	1	1	12.02	1/2	7.81	19.03	3.6	0.86	27.9	--	Cloudy - Brown
10:54	1 1/2	2 1/2	12.05	1/2	7.59	17.65	3.7	0.79	19.8	--	Almost Clear
10:57	1 1/2	4	12.07	1/2	7.49	17.87	3.8	0.79	16.8	--	Clear
11:00	1 1/2	5 1/2	12.07	1/2	7.42	18.46	3.9	1.42	15.5	--	Clear
11:03	1 1/2	7	12.10	1/2	7.37	19.02	3.7	2.10	16.5	--	Clear
11:06	1 1/2	8 1/2	12.12	1/2	7.37	18.32	3.6	2.65	18.0	--	Clear
11:09	1 1/2	10	12.14	1/2	7.35	18.36	3..5	3.38	20.6	--	Clear
11:12	1 1/2	11 1/2	12.13	1/2	7.33	18.94	3.4	3.42	20.6	--	Clear
11:15	1 1/2	13	12.13	1/2	7.32	18.98	3.4	3.75	20.6	--	Clear
11:18	1 1/2	14 1/2	12.13	1/2	7.31	19.20	3.3	4.01	21.1	--	Clear

Clarity: VC = very cloudy, CL = cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID:	MW-2	Sampling Flow Rate:	250 mL/min	Analytical Laboratory:	Pace Analytical	
Sample Time:	11:20	Final Depth to Water:	12.13	Did Well Dewater?	No	
# Containers/Type	Perservative	Analysis/ Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
3 / 40 mL Glass	HCl	VOCs	No	Not Applicable		Not Applicable

COMMENTS

	Well I.D.	MW-3	Job Number:	PECO_2017-68	
	Client:	Phillips Edison & Company	Date:	Thursday, August 17, 2017	
	Project:	Franklin Centre	Sampler:	Joe Becker	
	Weather:	75°, Mostly Cloudy	Time In/Out:	10:05 / 10:40	

WELL DATA

Well Depth (f):	15	Well Diameter (in):	2	Water Height (ft):	6.60
Depth to Water (ft):	8.40	Screened Interval (ft bgs):	5 to 15	x Multiplier	0.163
Water Column Length (ft):	6.60	Depth to Free Product:	Not Encountered	x Casing Volumes	3
Purge Volume (L):	10	Free Product Thickness:	N/A	=Purge Volumes (L)	12
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method:	Peristaltic Pump	Pump Intake Depth (ft):	14 1/2	Comments:	
Sampling Method:	Peristaltic Pump	Tubing Type:	Low Density Polyethylene		

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (L/min)	pH	Temp (°C)	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTU's)	Clarity/Color Other Remarks
					+/-0.2	+/-0.5°C	+/-5%	+/-0.5	+/-20mV	+/-10%	<--Stabilization Criterial
10:15	1	1	8.90	1/2	7.13	18.72	15.1	4.78	68.4	--	Clear
10:17	1	2	9.11	1/2	7.03	18.58	15.4	4.92	71.1	--	Clear
10:19	1	3	9.54	1/2	6.98	18.75	15.6	5.70	75.4	--	Clear
10:21	1	4	10.02	1/2	6.97	18.40	15.6	5.52	75.4	--	Clear
10:23	1	5	10.32	1/2	6.96	18.02	15.5	5.29	75.0	--	Clear
10:25	1	6	10.60	1/2	6.95	17.92	15.5	5.18	78.3	--	Clear
10:27	1	7	11.01	1/2	6.93	17.80	15.7	5.12	82.4	--	Clear
10:29	1	8	11.21	1/2	6.92	17.83	15.6	5.13	76.6	--	Clear
10:31	1	9	11.50	1/2	6.92	17.96	15.6	5.04	74.1	--	Clear
10:33	1	10	11.69	1/2	6.91	18.09	15.5	4.71	68.5	--	Clear

Clarity: VC = very cloudy, CL = cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID:	MW-3	Sampling Flow Rate:	250 mL/min	Analytical Laboratory:	Pace Analytical	
Sample Time:	10:35	Final Depth to Water:	11.69	Did Well Dewater?	No	
# Containers/Type	Perservative	Analysis/ Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
3 / 40 mL Glass	HCl	VOCs	No	Not Applicable		Not Applicable

COMMENTS

Appendix C

Boring Logs, Well Construction Diagrams & Wisconsin DNR Well and Borehole Forms

SOIL BORING LOG / TEMPORARY MONITORING WELL CONSTRUCTION DIAGRAM

Apex Companies, LLC
1701 East Woodfield Road
Suite 333
Schaumburg, IL 60173
(847) 956-8589

PROJECT NAME:	Bright Cleaners	**SOIL BORING NUMBER:**	**TW-1**
PROJECT NUMBER:	PECO_2016-78	**LOGGED BY:**	Joe Becker
PROJECT LOCATION:	7249 South 76th Street Franklin, Wisconsin	**DATE:**	August 31, 2016
DRILLING CONTRACTOR:	Environmental Soil Probing	**TOTAL BORING DEPTH:**	20 Feet
DRILLER:	Derek	**BOREHOLE DIAMETER:**	2 Inches - Rod
RIG TYPE:	Track-mounted Geoprobe	**WELL DEPTH:**	19 Feet
SAMPLING METHOD:	Dual-core	**WELL DIAMETER:**	1 Inch
GROUND ELEV (FT):	--	**DEPTH TO WATER :**	16 Feet (Observed in sample)
TOP OF CASING ELEV (FT):	--		13.4 Feet (Prior to sampling on 8/31/16)

DEPTH IN FEET	RECOVERY (FT)	PID (ppm)	LABORATORY I.D.	WELL CONSTRUCTION	GRAPHIC LOG	WATER LEVEL	SAMPLE DESCRIPTION
1				1" PVC well casing			3" Asphalt, 4" Aggregate
2	3 1/2	< 5					(CL) Silty clay with gravel, brown, dry, no odor
3							
4							
5		< 5					(SC) Clayey sand, brown, dry, no odor
6							(ML) Clayey silt, brown, dry, no odor
7		< 5					
8	4 1/2						
9							(GP) 1" Gravel, grayish brown, dry, no odor
10		9.9					(CL) Silty clay, grayish brown, dry, no odor
11				0.01" PVC well screen			
12		9.2					Slightly damp
13	5					13.4' ▼	
14		12.6	TW-1 @ 14'				(ML) Clayey silt, grayish brown, damp, no odor
15							
16							Saturated
17							
18	5			PVC cap at bottom of well casing			
19							Damp
20							

Bottom of Boring at 20 feet

SOIL BORING LOG / TEMPORARY MONITORING WELL CONSTRUCTION DIAGRAM

Apex Companies, LLC
1701 East Woodfield Road
Suite 333
Schaumburg, IL 60173
(847) 956-8589

PROJECT NAME: Bright Cleaners
PROJECT NUMBER: PECO_2016-78
PROJECT LOCATION: 7249 South 76th Street, Franklin, Wisconsin

SOIL BORING NUMBER: TW-2
LOGGED BY: Joe Becker
DATE: August 31, 2016

DRILLING CONTRACTOR: Environmental Soil Probing
DRILLER: Derek
RIG TYPE: Track-mounted Geoprobe
SAMPLING METHOD: Dual-core
GROUND ELEV (FT): --
TOP OF CASING ELEV (FT): --

TOTAL BORING DEPTH: 20 Feet
BOREHOLE DIAMETER: 2 Inches - Rod
WELL DEPTH: 17.5 Feet
WELL DIAMETER: 1 Inch
DEPTH TO WATER : NE Feet (Observed in sample)

DEPTH IN FEET	RECOVERY (FT)	PID (ppm)	LABORATORY I.D.	WELL CONSTRUCTION	GRAPHIC LOG	WATER LEVEL	SAMPLE DESCRIPTION
1				1" PVC well casing			3" Asphalt, 4" Aggregate
2	2						(ML) Clayey silt with crushed stone, brown, dry, no odor
3		< 5					
4							
5							Damp, light brown
6		< 5					
7	3						(SC) Clayey sand, light brown, damp, no odor
8							(GW) 1" Gravel, grayish brown, dry, no odor
9		< 5					(ML) Clayey silt, grayish brown, dry, no odor
10							
11		< 5	TW-2 @ 11'	0.01" PVC well screen			(SM) Silty sand, brown, damp, no odor
12							(ML) Clayey silt, grayish brown, slightly damp, no odor
13	3 1/2						(CL) Silty clay, grayish brown, slightly damp, no odor
14		< 5					(ML) Clayey silt, grayish brown, dry, no odor
15							
16							
17		< 5		PVC cap at bottom of well casing			
18	4						
19							
20							**Bottom of Boring at 20 feet**

SOIL BORING LOG / TEMPORARY MONITORING WELL CONSTRUCTION DIAGRAM

Apex Companies, LLC
1701 East Woodfield Road
Suite 333
Schaumburg, IL 60173
(847) 956-8589

PROJECT NAME: Bright Cleaners
PROJECT NUMBER: PECO_2016-78
PROJECT LOCATION: 7249 South 76th Street, Franklin, Wisconsin

SOIL BORING NUMBER: TW-3
LOGGED BY: Joe Becker
DATE: August 31, 2016

DRILLING CONTRACTOR: Environmental Soil Probing
DRILLER: Derek
RIG TYPE: Track-mounted Geoprobe
SAMPLING METHOD: Dual-core
GROUND ELEV (FT): --
TOP OF CASING ELEV (FT): --

TOTAL BORING DEPTH: 20 Feet
BOREHOLE DIAMETER: 2 Inches - Rod
WELL DEPTH: 20 Feet
WELL DIAMETER: 1 Inch
DEPTH TO WATER : 12 Feet (Observed in sample)
18.5 Feet (Prior to sampling on 8/31/16)

DEPTH IN FEET	RECOVERY (FT)	PID (ppm)	LABORATORY I.D.	WELL CONSTRUCTION	GRAPHIC LOG	WATER LEVEL	SAMPLE DESCRIPTION
1				1" PVC well casing			Topsoil
2							Aggregate
3	4						(CL) Silty clay with gravel, brown, slightly damp, no odor
4							
5		< 5					(CL) Sandy clay, tan, dry, no odor
6							(ML) Clayey silt, light brown, slightly damp, no odor
7							
8	3 1/2	< 5					(SM) 1" Silty sand, light brown, slightly damp, no odor
9							(ML) Clayey silt, brown, slightly damp, no odor
10		< 5		0.01" PVC well screen			
11			TW-3 @ 12'				
12		< 5					Grayish brown Saturated
13	3						
14							
15							
16							(CL) Silty clay, grayish brown, damp, no odor
17							
18	3					18.5' ▼	
19				PVC cap at bottom of well casing			
20							**Bottom of Boring at 20 feet**

SOIL BORING LOG / PERMANENT MONITORING WELL CONSTRUCTION DIAGRAM

Apex Companies, LLC
1701 East Woodfield Road
Suite 333
Schaumburg, IL 60173
(847) 956-8589

PROJECT NAME: Bright Cleaners
PROJECT NUMBER: PECO_2017-68
PROJECT LOCATION: 7201 South 76th Street, Franklin, Wisconsin

SOIL BORING NUMBER: MW-1
LOGGED BY: Joe Becker
DATE: August 11, 2017

DRILLING CONTRACTOR: Environmental Soil Probing
DRILLER: Derek / Tyler
RIG TYPE: Track-mounted Geoprobe
SAMPLING METHOD: Dual-core
GROUND ELEV (FT): --
TOP OF CASING ELEV (FT): 768.70

TOTAL BORING DEPTH: 15 Feet
BOREHOLE DIAMETER: 8 Inches - Auger
WELL DEPTH: 19.5 Feet
WELL DIAMETER: 2 Inch
DEPTH TO WATER : NE Feet (Observed in sample)
11.88 Feet (Prior to sampling on 8/17/17)

DEPTH IN FEET	RECOVERY (FT)	PID (ppm)	LABORATORY I.D.	WELL CONSTRUCTION	GRAPHIC LOG	WATER LEVEL	SAMPLE DESCRIPTION
1				Flush-mount well box			3" Asphalt
							4" Aggregate
2	2 1/2	< 5					(CL) Silty clay, brown, dry, no odor
3			MW-1 @ 4'	Bentonite			3" (ML) Clayey silt, dry, brown, no odor
4		< 5					Trace gravel
5							Very stiff
6				2" PVC well casing			
7	5	< 5					
8							
9		< 5					
10				00 Sand			Grayish brown
11		< 5				▼	
12	7						
13							
14		< 5		0.01" PVC well screen			
15							Refusal
16							
17							
18							
19				PVC cap at bottom of well casing			
20							**Bottom of Boring at 15 feet - Refusal**

SOIL BORING LOG / PERMANENT MONITORING WELL CONSTRUCTION DIAGRAM

Apex Companies, LLC
1701 East Woodfield Road
Suite 333
Schaumburg, IL 60173
(847) 956-8589

PROJECT NAME: Bright Cleaners
PROJECT NUMBER: PECO_2017-68
PROJECT LOCATION: 7201 South 76th Street, Franklin, Wisconsin

SOIL BORING NUMBER: MW-2
LOGGED BY: Joe Becker
DATE: August 11, 2017

DRILLING CONTRACTOR: Environmental Soil Probing
DRILLER: Derek / Tyler
RIG TYPE: Track-mounted Geoprobe
SAMPLING METHOD: Dual-core
GROUND ELEV (FT): --
TOP OF CASING ELEV (FT): 768.95

TOTAL BORING DEPTH: 18 Feet
BOREHOLE DIAMETER: 8 Inches - Auger
WELL DEPTH: 19.5 Feet
WELL DIAMETER: 2 Inch
DEPTH TO WATER : NE Feet (Observed in sample)
11.97 Feet (Prior to sampling on 8/17/17)

DEPTH IN FEET	RECOVERY (FT)	PID (ppm)	LABORATORY I.D.	WELL CONSTRUCTION	GRAPHIC LOG	WATER LEVEL	SAMPLE DESCRIPTION
1				Flush-mount well box			3" Asphalt
							4" Aggregate
2	2 1/2	< 5					(SW) Clayey gravelly sand, tan, dry, no odor
3				Bentonite			
4		< 5					(CL) Gravelly silty clay, brown, damp, soft, no odor
5			MW-2 @ 6'				
6				2" PVC well casing			
7	2						
8		< 5					
9							
10		< 5		00 Sand			1' (SW) Clayey gravelly sand, grayish brown, damp, no odor
11							(ML) Silty clay, trace gravel, gray/brown, slightly damp, no odor
12		< 5				▼	
13	3						
14				0.01" PVC well screen			
15		< 5					
16							(CL) Silty clay, trace gravel, grayish brown, damp, very stiff, no odor
17	5	< 5					
18							Refusal
19				PVC cap at bottom of well casing			
20							

Bottom of Boring at 18 feet - Refusal

SOIL BORING LOG / PERMANENT MONITORING WELL CONSTRUCTION DIAGRAM

Apex Companies, LLC
1701 East Woodfield Road
Suite 333
Schaumburg, IL 60173
(847) 956-8589

PROJECT NAME:	Bright Cleaners	**SOIL BORING NUMBER:**	**MW-3**
PROJECT NUMBER:	PECO_2017-68	**LOGGED BY:**	Joe Becker
PROJECT LOCATION:	7201 South 76th Street Franklin, Wisconsin	**DATE:**	August 11, 2017
DRILLING CONTRACTOR:	Environmental Soil Probing	**TOTAL BORING DEPTH:**	12 Feet
DRILLER:	Derek / Tyler	**BOREHOLE DIAMETER:**	8 Inches - Auger
RIG TYPE:	Track-mounted Geoprobe	**WELL DEPTH:**	15 Feet
SAMPLING METHOD:	Dual-core	**WELL DIAMETER:**	2 Inch
GROUND ELEV (FT):	--	**DEPTH TO WATER :**	10 Feet (Observed in sample)
TOP OF CASING ELEV (FT):	769.31		8.40 Feet (Prior to sampling on 8/17/17)

DEPTH IN FEET	RECOVERY (FT)	PID (ppm)	LABORATORY I.D.	WELL CONSTRUCTION	GRAPHIC LOG	WATER LEVEL	SAMPLE DESCRIPTION
1				Flush-mount well box			5" Asphalt
							8" Aggregate
							(CL) Silty clay, brown, slightly damp, no odor
2	2	< 5		Bentonite			
3				2" PVC well casing			Limestone fragements
4		< 5					
5							1' Trace gravel, very damp
6		< 5		00 Sand			
7	5						
8		< 5				▼	(ML) Clayey silt, brown, very damp, no odor
9				0.01" PVC well screen			
10							Saturated
11	3						
12							Grayish brown, refusal
13							
14				PVC cap at bottom of well casing			
15							**Bottom of Boring at 12 feet - Refusal**

SOIL BORING LOG

Apex Companies, LLC
1701 East Woodfield Road
Suite 333
Schaumburg, IL 60173
(847) 956-8589

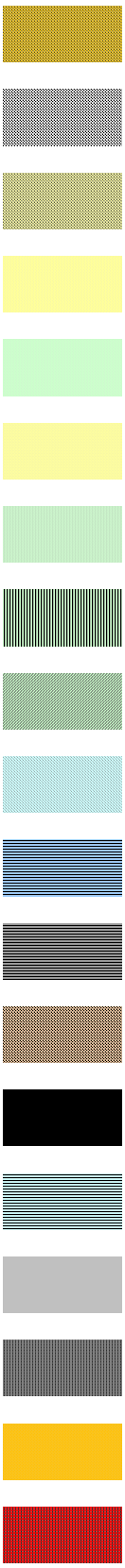
PROJECT NAME:	Bright Cleaners	**SOIL BORING NUMBER:**	**B-1**
PROJECT NUMBER:	PECO_2017-68	**LOGGED BY:**	Joe Becker
PROJECT LOCATION:	7201 South 76th Street Franklin, Wisconsin	**DATE:**	August 11, 2017
DRILLING CONTRACTOR:	Environmental Soil Probing	**TOTAL BORING DEPTH:**	4.5 Feet
DRILLER:	Tyler	**BOREHOLE DIAMETER:**	2 Inches - Rod
RIG TYPE:	Jack Hammer	**WELL DEPTH:**	NA Feet
SAMPLING METHOD:	Dual-core	**WELL DIAMETER:**	NA Inch
GROUND ELEV (FT):	--	**DEPTH TO WATER :**	NE Feet (Observed in sample)
TOP OF CASING ELEV (FT):	--		

DEPTH IN FEET	RECOVERY (FT)	PID (ppm)	LABORATORY I.D.	WELL CONSTRUCTION	GRAPHIC LOG	WATER LEVEL	SAMPLE DESCRIPTION
1	4	< 5	B-1 @ 2'				5" Concrete (CL) Silty clay, brown, slightly damp, no odor
2							
3		< 5					
4							

Bottom of Boring at 4-1/2 feet - Refusal

SOIL BORING LOG KEY

Apex Companies, LLC
1701 East Woodfield Road
Suite 333
Schaumburg, IL 60173
(847) 956-8589



FILL
GRAVEL
SAND AND GRAVEL
SAND
CLAYEY SAND
SILTY SAND
SANDY SILT
SILT
CLAYEY SILT
SILTY CLAY
CLAY
LOAM / PEAT
TOPSOIL
ASPHALT
SANDY CLAY
CONCRETE
ENGINEERED BACKFILL / CRUSHED DOLOSTONE
Clayey Fill
Brick

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☑ Other ☐ _____

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Bright Cleaners		TW-1

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Derek Last Name: Stephenson Firm: ESP	08/31/2016 (m m / d d / y y y y)	08/31/2016 (m m / d d / y y y y)	Direct Push

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
_ _ _ _ _ _ ☑	_ _ _	TW-1	13.4 ~~764~~ Feet MSL	769 Feet MSL	2 inches

Local Grid Origin ☑ (estimated: ☐) or Boring Location ☐
State Plane 682 338 N, 273 123 E
NE 1/4 of NE 1/4 of Section 9, T 5 N, R 21 E

Lat 42° 54' 48"
Long 88° 0' 40"

Local Grid Location
70 Feet ☐ N ☑ S 19 Feet ☐ E ☑ W

Facility ID	County	County Code	Civil Town/City/ or Village
241928940	Milwaukee	41	Franklin

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				Asphalt / Aggregate										
				silty clay with gravel	CL									
	3½							4.5						
			5'	clayey sand	SC			<5						
				clayey silt	ML									
								<5						
	4½													
								9.9						
				silty clay	CL									
			10'					9.2						
	5													
								12.6						
				clayey silt	ML					Damp				
TW-1 @14'			15'											
								42		Saturated				
	5													
			20'											

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

Signature _____ Firm Apex Companies, LLC

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $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. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☑ Other ☐ _____

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Bright Cleaners		TW-2

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Derek Last Name: Stephenson Firm: ESP	08/31/2016 (m m d d y y y y)	08/31/2016 (m m d d y y y y)	Direct Push

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
_ _ _ _ _ _	_ _ _	TW-2	NE Feet MSL	769 Feet MSL	2 inches

Local Grid Origin ☑ (estimated: ☐) or Boring Location ☐
State Plane 6xz 338 N, 273 125 E
NE 1/4 of NE 1/4 of Section 9, T 5 N, R 21 E
Lat 42° 51' 48"
Long 88° 0' 40"
Local Grid Location: 39 Feet ☐ N ☑ S, 11 Feet ☐ E ☑ W

Facility ID	County	County Code	Civil Town/City/ or Village
241928940	Milwaukee	41	Franklin

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				Asphalt/Aggregate										
				clayey silt w/ crushed stone	ML									
	2							<5						
			5'											
								<5						
				Clayey Sand	SC									
	3			Clayey silt	ML					dump				
								<5						
			10'											
TW-2@ 11'														
				silty sand	SM			<5						
	3½			clayey silt	ML									
				silty clay	CL									
			15'	clayey silt	ML			<5						
	4							<5						
			20'					<5						

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

Signature	Firm
	Apex Companies, LLC

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $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. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☑ Other ☐ _____

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Bright Cleaners		TW-3

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Derek Last Name: Stephenson Firm: ESP	08/31/2016 (m m d d y y y y)	08/31/2016 (m m d d y y y y)	Direct Push

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
_ _ _ _ _ _	_ _ _ _	TW-3	18.5 Feet MSL	769 Feet MSL	2 inches

Local Grid Origin ☑ (estimated: ☐) or Boring Location ☐
State Plane 682 338 N, 273 123 E
NE 1/4 of NE 1/4 of Section 9, T 5 N, R 21 E

Lat 42° 54' 48"
Long 88° 0' 40"

Local Grid Location
49 Feet ☐ N ☑ S 16 Feet ☐ W ☑ E

Facility ID	County	County Code	Civil Town/City/ or Village
241928940	Milwaukee	41	Franklin

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				Topsoil / Aggregate										
				silty clay w/ gravel	CL									
	4							<5						
			5'	Sandy clay	CL									
				Clayey silt	ML			<5						
	3½			1" silty sand	SM					damp				
				clayey silt	ML			<5						
			10'											
								<5						
TW-3 @12'	3									saturated				
			15'											
	3			silty clay	CL									
			20'											

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

Signature	Firm
	Apex Companies, LLC

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $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. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☑ Other ☐ _____

Page 1 of 1

Facility/Project Name: Bright Cleaners	License/Permit/Monitoring Number	Boring Number: MW-1	
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Derek Last Name: Stephenson — Firm: ESP	Date Drilling Started: 08/14/2017	Date Drilling Completed: 08/11/2017	Drilling Method: Direct Push
WI Unique Well No.: _ _ _ _ _ _	DNR Well ID No.: _ _ _	Well Name: MW-1	Final Static Water Level: 11.84 Feet MSL
Surface Elevation: 769 Feet MSL	Borehole Diameter: 2 inches		
Local Grid Origin ☑ (estimated: ☐) or Boring Location ☐ — State Plane 682 338 N, 273123 E	Lat 42° 54' 48.84" Long 88° 0' 40.15"	Local Grid Location: 68 Feet ☐ N ☑ S, 15 Feet ☐ E ☑ W	
NE 1/4 of NE 1/4 of Section 9, T 5 N, R 21 E			
Facility ID: 241928940	County: Milwaukee	County Code: 41	Civil Town/City/ or Village: Franklin

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	2½			Asphalt/Aggregate silty clay	CL			<5						
MW-1 @4'			5'					<5						
	5							<5						
			10'					<5						
	7							<5						
			15'	Refusal				<5						

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

Signature: _____ Firm: Apex Companies, LLC

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $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. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☑ Other ☐ _____

Page 1 of 1

Facility/Project Name: Bright Cleaners	License/Permit/Monitoring Number:	Boring Number: MW-2
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Derek Last Name: Stephenson — Firm: ESP	Date Drilling Started: 08/11/2017	Date Drilling Completed: 08/11/2017 — Drilling Method: Direct Push
WI Unique Well No.: _ _ _ _ _ _ — DNR Well ID No.: _ _ _ — Well Name: MW-2	Final Static Water Level: 11.47 Feet MSL	Surface Elevation: 769 Feet MSL — Borehole Diameter: 2 inches
Local Grid Origin ☑ (estimated: ☐) or Boring Location ☐ — State Plane 632338 N, 273123 E	Lat 42° 54' 48" — Long 88° 0' 40"	Local Grid Location: 49 Feet ☐ N ☑ S — 49 Feet ☐ E ☑ W
NE 1/4 of NE 1/4 of Section 9, T 5 N, R 21 E		
Facility ID: 241928940	County: Milwaukee — County Code: 41	Civil Town/City/ or Village: Franklin

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				Asphalt / Aggregate										
	2½			Clayey gravelly sand	SW			<5						
			5'	Gravelly silty clay	CL			<5		damp				
MW-2 @6'								<5						
	2													
			10'					<5						
				Clayey gravelly sand	SW									
	3			silty clay, trace gravel	ML			<5						
								<5						
			15'											
	5'			silty clay, trace gravel	CL			<5						
				Refusal										
			20'											

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

Signature: _____ Firm: Apex Companies, LLC

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $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. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☑ Other ☐ _____

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Bright Cleaners		MW-3

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Derek Last Name: Stephenson Firm: ESP	08/11/2017 (m m / d d / y y y y)	08/11/2017 (m m / d d / y y y y)	Direct Push

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
_ _ _ _ _ _ ✓	_ _ _	MW-3	8.40 Feet MSL	769 Feet MSL	2 inches

Local Grid Origin ☑ (estimated: ☐) or Boring Location ☐
State Plane 682 338 N, 273 123 E
NE 1/4 of NE 1/4 of Section 9, T 5 N, R 21 E
Lat 42° 54' 48"
Long 88° 0' 40"
Local Grid Location ☑ N ☑ E
69 Feet ☐ S 3 Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
241928410	Milwaukee	41	Franklin

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	2			Asphalt/Aggregate silty clay	CL			<5						
	—		5'					<5		very damp				
	5			Clayey silt	ML			<5						
	—		10'					<5						
	3			Refusal										
	—		15'											

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

Signature	Firm
	Apex Companies, LLC

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $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. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☑ Other ☐ _____

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Bright Cleaners		B-1

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Derek Last Name: Stephenson Firm: ESP	08/11/2017	08/11/2017	Direct Push

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
_ _ _ _ _ _ ✓	_ _ _ _	~~B-1~~ NA	NE Feet MSL	769 Feet MSL	1½ inches

Local Grid Origin ☑ (estimated: ☐) or Boring Location ☐
State Plane 682338 N, 273123 E
NE 1/4 of NE 1/4 of Section 9, T 5 N, R 21 E
Lat 42° 54' 48" Long 88° 0' 40"

Local Grid Location: 5 Feet ☐ N ☑ S; 0 Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
241928940	Milwaukee	41	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
B-1@ 2'	4'			Concrete silty clay	CL			<5		slightly damp				
			4'	Refusal				<5						

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

Signature _____ Firm Apex Companies, LLC

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $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. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

GROUNDWATER MONITORING WELL INFORMATION FORM

Chapter 281 and 289, Wis. Stats.
Form 4400-89
Rev. 7-98

Facility Name	Facility ID Number	License, Permit or Monitoring No.	Date	Completed By (Name and Firm)
Bright Cleaners	241928940		10-23-2017	Joe Becker, Apex Companies, LLC

WI Unique Well No	Well Name	DNR Well ID Number	Well Location	Dir. N/E	Dir. S/W	Date Established	Well Casing Diam.	Well Casing Type	Elevations Top of Well Casing	Elevations Ground Surface	Reference MSL (√)	Reference Site Datum (√)	Depths Screen Top	Depths Initial Groundwater	Depths Well Depth	Screen Length	Well Type	Well Status	Enf. Stds.	Grad-ient	Distance to Waste
	MW-1		68		✓	8-11-17	2	P	768.70	769.00	✓		9½'	11.88'	19½'	10'	II/mw	A	✓	D	42'
			15		✓																
	MW-2		49		✓	8-11-17	2	P	768.95	769.25	✓		9½'	11.97'	19½'	10'	II/mw	A	✓	D	38'
			49		✓																
	MW-3		69	✓		8-11-17	2	P	769.31	769.61	✓		5'	8.40'	15'	10'	II/mw	A	✓	U	15'
			3	✓																	

Location Coordinates Are:
☑ State Plane Coordinate ☐ Local Grid System
☐ Northern
☐ Central
☑ Southern

Grid Origin Location: (Check if estimated: ☐)
Lat. 42 ° 54 ' 48.54 " Long. 88 ° 0 ' 40.15 " or
St. Plane 682338 ft. N. 273123 ft. E. (S)/C/N Zone

Remarks:

Completion of this form is mandatory under s. NR 507.14 and NR 110.25 Wis. Adm. Code. Failure to file this form may result in forfeiture of not less than $10 nor more than $5,000 for each day of violation. Personally identifiable information provided is intended to be used by the Department for the purposes related to the waste management program.

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name: Bright Cleaners	Local Grid Location of Well: 68 ft. ☐N. ☑S. 15 ft. ☐E. ☑W.	Well Name: MW-1
Facility License, Permit or Monitoring No.	Local Grid Origin ☑ (estimated: ☐) or Well Location ☐ Lat. 42° 54' 48.54" Long. 88° 0' 40.15" or	Wis. Unique Well No. / DNR Well ID No.
Facility ID: 241928940	St. Plane 682338 ft. N. 273123 ft. E. ☐S/C/N	Date Well Installed: 08/11/2017 (m m d d y y y y)
Type of Well — Well Code 11 / MW	Section Location of Waste/Source: NE 1/4 of NE 1/4 of Sec. 9, T. 5 N, R. 21 ☐E ☐W	Well Installed By: Name (first, last) and Firm: Derek Stephenson / ESP
Distance from Waste/Source 42 ft. — Enf. Stds. Apply ☑	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☑ Downgradient n ☐ Not Known	Gov. Lot Number

A. Protective pipe, top elevation 769.00 ft. MSL
B. Well casing, top elevation 768.70 ft. MSL
C. Land surface elevation 769.00 ft. MSL
D. Surface seal, bottom ____ ft. MSL or 1 ft.

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 ☐ 50 / Hollow Stem Auger ☑ 41 / Other ☐

15. Drilling fluid used: Water ☐ 02 / Air ☐ 01 / Drilling Mud ☐ 03 / None ☑ 99

16. Drilling additives used? ☐ Yes ☑ No
Describe ____

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

E. Bentonite seal, top ____ ft. MSL or 1 ft.
F. Fine sand, top ____ ft. MSL or ____ ft.
G. Filter pack, top ____ ft. MSL or 7½ ft.
H. Screen joint, top ____ ft. MSL or 9½ ft.
I. Well bottom ____ ft. MSL or 19½ ft.
J. Filter pack, bottom ____ ft. MSL or 19½ ft.
K. Borehole, bottom ____ ft. MSL or 19½ ft.
L. Borehole, diameter 8 in.
M. O.D. well casing 2.4 in.
N. I.D. well casing 2 in.

1. Cap and lock? ☑ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 5.1 in.
b. Length: 1 ft.
c. Material: Steel ☑ 04 / Other ☐
d. Additional protection? ☐ Yes ☑ No
If yes, describe: ____
3. Surface seal: Bentonite ☐ / Concrete ☑ 01 / Other ☐
4. Material between well casing and protective pipe: Concrete — Bentonite ☐ / Other ☑
5. Annular space seal: a. Granular/Chipped Bentonite ☑ 33
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. ____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. ____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☑ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ☑3/8 in. ☐1/2 in. Bentonite chips ☑ 32
c. ____ Other ☐
7. Fine sand material: Manufacturer, product name & mesh size
a. ____
b. Volume added ____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. IES, 100
b. Volume added 3.9 ft^3
9. Well casing: Flush threaded PVC schedule 40 ☑ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐
10. Screen material: Same
a. Screen type: Factory cut ☑ 11 / Continuous slot ☐ 01 / Other ☐
b. Manufacturer Geoprobe
c. Slot size: 0.01 in.
d. Slotted length: 9½ ft.
11. Backfill material (below filter pack): None ☑ 14 / Other ☐

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

Signature: [signature] Firm: Apex Companies, LLC

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐ _____

Facility/Project Name	County Name	Well Name
Bright Cleaners	Milwaukee	MW-1

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	41	_____	___

1. Can this well be purged dry? ☑ Yes ☐ No

2. Well development method

surged with bailer and bailed	☐ 41
surged with bailer and pumped	☐ 61
surged with block and bailed	☐ 42
surged with block and pumped	☑ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	☐ 10
pumped only	☐ 51
pumped slowly	☐ 50
Other _____	☐

3. Time spent developing well ___15___ min.

4. Depth of well (from top of well casisng) __19.5__ ft.

5. Inside diameter of well __2.00__ in.

6. Volume of water in filter pack and well casing __6.7__ gal.

7. Volume of water removed from well __4.5__ gal.

8. Volume of water added (if any) __0.0__ gal.

9. Source of water added NA

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

	Before Development	After Development
11. Depth to Water (from top of well casing) a.	11.84 ft.	17.00 ft.
Date b. (mm/dd/yyyy)	08/14/2017	08/14/2017
Time c.	16:20 ☐ a.m. ☐ p.m.	10:35 ☑ a.m. ☐ p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☑ 15 (Describe) Brown	Clear ☑ 20 Turbid ☐ 25 (Describe)
14. Total suspended solids	____.__ mg/l	____.__ mg/l
15. COD	____.__ mg/l	____.__ mg/l

Fill in if drilling fluids were used and well is at solid waste facility:

16. Well developed by: Name (first, last) and Firm
First Name: Joe Last Name: Becker
Firm: Apex Companies, LLC

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party
First Name: _____ Last Name: _____
Facility/Firm: Franklin Centre/Phillips Edison
Street: 7249 S. 76th St.
City/State/Zip: Franklin, WI 53132

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: _____
Print Name: Joe Becker
Firm: Apex Companies, LLC

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Bright Cleaners	Local Grid Location of Well: 49 ft. ☐N ☑S; 49 ft. ☐E ☑W	Well Name: MW-2
Facility License, Permit or Monitoring No.	Local Grid Origin ☑ (estimated: ☐) or Well Location ☐ Lat. 42° 54' 48.54" Long. 88° 0' 40.15" or	Wis. Unique Well No. _____ DNR Well ID No. _____
Facility ID: 241928940	St. Plane 682 338 ft. N, 273 123 ft. E. ☐C/N	Date Well Installed: 08/11/2017 (m m d d y y y y)
Type of Well Well Code: 11 / MW	Section Location of Waste/Source: NE 1/4 of NE 1/4 of Sec. 9, T. 5 N, R. 21 ☑E ☐W	Well Installed By: Name (first, last) and Firm: Derek Stephenson, ESP
Distance from Waste/Source: 38 ft. Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☑ Downgradient n ☐ Not Known	Gov. Lot Number: _____

A. Protective pipe, top elevation 769.25 ft. MSL
B. Well casing, top elevation 768.95 ft. MSL
C. Land surface elevation 769.25 ft. MSL
D. Surface seal, bottom _____ ft. MSL or 1 ft.

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 ☐ 50; Hollow Stem Auger ☑ 41; Other ☐ _____

15. Drilling fluid used: Water ☐ 02; Air ☐ 01; Drilling Mud ☐ 03; None ☑ 99

16. Drilling additives used? ☐ Yes ☑ No

Describe _____

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

E. Bentonite seal, top _____ ft. MSL or 1 ft.
F. Fine sand, top _____ ft. MSL or _____ ft.
G. Filter pack, top _____ ft. MSL or 7½ ft.
H. Screen joint, top _____ ft. MSL or 9½ ft.
I. Well bottom _____ ft. MSL or 19½ ft.
J. Filter pack, bottom _____ ft. MSL or 19½ ft.
K. Borehole, bottom _____ ft. MSL or 19½ ft.
L. Borehole, diameter 8 in.
M. O.D. well casing 2.4 in.
N. I.D. well casing 2 in.

1. Cap and lock? ☑ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 5.1 in.
b. Length: 1 ft.
c. Material: Steel ☑ 04; Other ☐ _____
d. Additional protection? ☐ Yes ☑ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30; Concrete ☑ 01; Other ☐ _____
4. Material between well casing and protective pipe: Concrete; Bentonite ☐ 30; Other ☐ _____
5. Annular space seal: a. Granular/Chipped Bentonite ☑ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01; Tremie pumped ☐ 02; Gravity ☑ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ☐3/8 in. ☐1/2 in. Bentonite chips ☑ 32
c. _____ Other ☐ _____
7. Fine sand material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. IES, 100
b. Volume added 3.9 ft^3
9. Well casing: Flush threaded PVC schedule 40 ☑ 23; Flush threaded PVC schedule 80 ☐ 24; Other ☐ _____
10. Screen material: Same
a. Screen type: Factory cut ☑ 11; Continuous slot ☐ 01; Other ☐ _____
b. Manufacturer Geoprobe
c. Slot size: 0.01 in.
d. Slotted length: 9½ ft.
11. Backfill material (below filter pack): None ☑ 14; Other ☐ _____

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

Signature: _____ Firm: Apex Companies, LLC

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐ _____

Facility/Project Name	County Name	Well Name
Bright Cleaners	Milwaukee	MW-2
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well ID Number**
	41	_____	___

1. Can this well be purged dry? ☑ Yes ☐ No

2. Well development method

surged with bailer and bailed	☐ 41
surged with bailer and pumped	☐ 61
surged with block and bailed	☐ 42
surged with block and pumped	☑ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	☐ 10
pumped only	☐ 51
pumped slowly	☐ 50
Other _____	☐

3. Time spent developing well 15 min.

4. Depth of well (from top of well casisng) 19.5 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing 6.7 gal.

7. Volume of water removed from well 4.5 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added NA

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

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 11.97 ft.	16.0 ft.
Date	b. 08/14/2017 (m m d d y y y y)	08/14/2017
Time	c. 10:40 ☑ a.m. ☐ p.m.	10:55 ☑ a.m. ☐ p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☑ 15	Clear ☑ 20 Turbid ☐ 25
(Describe)	Brown	
14. Total suspended solids	____.__ mg/l	____.__ mg/l
15. COD	____.__ mg/l	____.__ mg/l

Fill in if drilling fluids were used and well is at solid waste facility:

16. Well developed by: Name (first, last) and Firm
First Name: Joe Last Name: Becker
Firm: Apex Companies, LLC

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party
First Name: _____ Last Name: _____
Facility/Firm: Franklin Centre/Phillips Edison
Street: 7249 S. 76th St.
City/State/Zip: Franklin, WI 53132

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: _____
Print Name: Joe Becker
Firm: Apex Companies, LLC

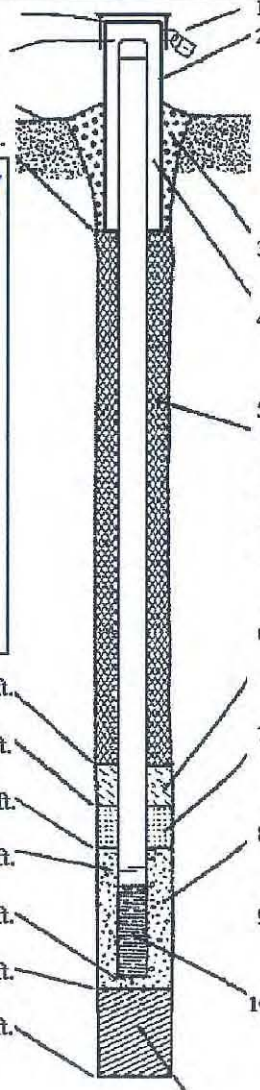
NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐ _____

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name: Bright Cleaners	Local Grid Location of Well: 69 ft. ☑N. ☐S. 3 ft. ☑E. ☐W.	Well Name: MW-3
Facility License, Permit or Monitoring No.	Local Grid Origin ☑ (estimated: ☐) or Well Location ☐ Lat. 42° 54' 48.54" Long. 88° 0' 40.15" or	Wis. Unique Well No. / DNR Well ID No.
Facility ID: 241928940	St. Plane 682338 ft. N. 273123 ft. E. ☑S/C/N	Date Well Installed: 08/11/2017 (m m d d y y y y)
Type of Well — Well Code 11 / MW	Section Location of Waste/Source: NE 1/4 of NE 1/4 of Sec. 9, T. 5 N, R. 21 ☑E ☐W	Well Installed By: Name (first, last) and Firm
Distance from Waste/Source 15 ft.	Enf. Stds. Apply ☑	Location of Well Relative to Waste/Source: u ☑ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known
		Gov. Lot Number



A. Protective pipe, top elevation 769.61 ft. MSL
B. Well casing, top elevation 769.31 ft. MSL
C. Land surface elevation 769.61 ft. MSL
D. Surface seal, bottom _____ ft. MSL or 1 ft.

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 ☐ 50 Hollow Stem Auger ☑ 41 Other ☐ ____

15. Drilling fluid used: Water ☐ 02 Air ☐ 01 Drilling Mud ☐ 03 None ☑ 99

16. Drilling additives used? ☐ Yes ☑ No
Describe _____

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

E. Bentonite seal, top _____ ft. MSL or 1 ft.
F. Fine sand, top _____ ft. MSL or _____ ft.
G. Filter pack, top _____ ft. MSL or 3 ft.
H. Screen joint, top _____ ft. MSL or 5 ft.
I. Well bottom _____ ft. MSL or 15 ft.
J. Filter pack, bottom _____ ft. MSL or 15 ft.
K. Borehole, bottom _____ ft. MSL or 15 ft.
L. Borehole, diameter 8 in.
M. O.D. well casing 2.4 in.
N. I.D. well casing 2 in.

1. Cap and lock? ☑ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 5.1 in.
b. Length: 1 ft.
c. Material: Steel ☑ 04 Other ☐ ____
d. Additional protection? ☐ Yes ☑ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30 Concrete ☑ 01 Other ☐ ____
4. Material between well casing and protective pipe: Concrete — Bentonite ☐ 30 Other ☑ ____
5. Annular space seal: a. Granular/Chipped Bentonite ☑ 33
b. _____ Lbs/gal mud weight ... Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight ..... Bentonite slurry ☐ 31
d. _____ % Bentonite ..... Bentonite-cement grout ☐ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 Tremie pumped ☐ 02 Gravity ☑ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ☑3/8 in. ☐1/2 in. Bentonite chips ☑ 32
c. _____ Other ☐ ____
7. Fine sand material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. IES, 10C
b. Volume added 3.9 ft^3
9. Well casing: Flush threaded PVC schedule 40 ☑ 23 Flush threaded PVC schedule 80 ☐ 24 Other ☐ ____
10. Screen material: Same
a. Screen type: Factory cut ☑ 11 Continuous slot ☐ 01 Other ☐ ____
b. Manufacturer Geoprobe
c. Slot size: 0.01 in.
d. Slotted length: 7½ ft.
11. Backfill material (below filter pack): None ☑ 14 Other ☐ ____

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

Signature	Firm
	Apex Companies, LLC

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐ _____

Facility/Project Name	County Name	Well Name
Bright Cleaners	Milwaukee	MW-3

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	41	_____	___

1. Can this well be purged dry? ☑ Yes ☐ No

2. Well development method

surged with bailer and bailed	☐ 41
surged with bailer and pumped	☐ 61
surged with block and bailed	☐ 42
surged with block and pumped	☑ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	☐ 10
pumped only	☐ 51
pumped slowly	☐ 50
Other _____	☐

3. Time spent developing well 15 min.

4. Depth of well (from top of well casisng) 15.0 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing 5.8 gal.

7. Volume of water removed from well 4.5 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added NA

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

	Before Development	After Development
11. Depth to Water (from top of well casing) a.	8.40 ft.	13.00 ft.
Date b. (m m d d y y y y)	08/14/2017	08/14/2017
Time c.	10:00 ☑ a.m. ☐ p.m.	10:15 ☑ a.m. ☐ p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☑ 15 (Describe) Brown	Clear ☑ 20 Turbid ☐ 25 (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: Joe Last Name: Becker
Firm: Apex Companies, LLC

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party
First Name: _____ Last Name: _____
Facility/Firm: Franklin Centre/Phillips Edison
Street: 7249 S. 76th St.
City/State/Zip: Franklin, WI 53132

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: _____
Print Name: Joe Becker
Firm: Apex Companies, LLC

NOTE: See instructions for more information including a list of county codes and well type codes.

Appendix D

Groundwater Elevation Measurements & Slug Test Analysis

Groundwater Elevation Measurements
Franklin Centre
7249 South 76th Street, Franklin, Wisconsin

Apex Project No.: PECO_2017-68

Well Number	Top of Casing Elevation (ft - MSL)	Well Depth (ft)	Screened Interval (ft)	Date	Depth to Groundwater (ft)	Groundwater Elevation (ft - MSL)	Difference (ft)
MW-1	768.70	19.5	9.5 to 19.5	August 14, 2017	11.88	756.82	--
				August 17, 2017	11.88	756.82	0.00
				September 12, 2017	12.05	756.65	-0.17
MW-2	768.95	19.5	9.5 to 19.5	August 14, 2017	11.96	756.99	--
				August 17, 2017	11.97	756.98	-0.01
				September 12, 2017	11.97	756.98	0.00
MW-3	769.31	15.0	5 to 15	August 14, 2017	8.40	760.91	--
				August 17, 2017	8.40	760.91	0.00
				September 12, 2017	8.54	760.77	-0.14

Notes: MSL - Mean Sea Level

Greentree Centre
7201 South 76th Street
Franklin, Wisconsin
Apex Project No.: PECO_2017-68

Results of Hydraulic Slug Testing: MW-1

WELL INFORMATION

Well ID:	**MW-1**	
Date:	Tuesday, September 12, 2017	
Test No.:	1	
Start Time:	16:00	
Test Type:	Rising Head	
Test Method:	Bail down	
Ground Elev.:	--	feet AMSL
TOC Elev.:	768.70	feet AMSL
Lithology:	3 inches asphalt; 4 inches aggregate; silty clay (CL) to a depth of 3 feet bgs; a 3 inch clayey silt (ML) lens at 3 feet bgs; silty clay (CL) with trace gravel to a depth of 15 feet bgs, where refusal was encountered.	

INPUT PARAMETERS

Well Construction:

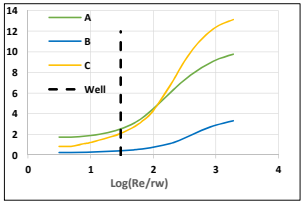
Borehole Radius (r_w) =	4	inch
Casing Radius (r_c) =	1	inch
Screen Length (L_e) =	10	feet
Screen Slot Open =	0.01	inch
Filter Pack:	7-1/2 to 19-1/2 00 Silica Sand	feet bgs
Annular Fill:	Bentonite	

Depths:

Well =	19.5	feet bgs
Stabilized Water Level (L_w)=	7.97	feet
Top of Screen =	9.5	feet bgs
Top of Aquifer =	1	feet bgs
Base of Aquifer (H)=	19.5	feet bgs

Dimensionless Parameters

log(L_e/r_w) =	1.5
A =	2.5
B =	0.4
C =	2.1

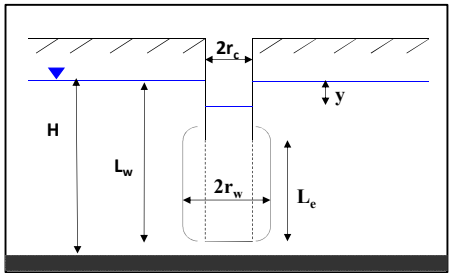


CALCULATIONS

Effective Radius of Influence (Partially Penetrating)

ln(R_e/r_w) =	2.67
Slope =	-2.88E-04

WELL DIAGRAM



BOUWER & RICE SLUG TEST EQUATIONS[1]

Hydraulic Conductivity

$$K = \frac{r_c^2 \ln\left(\frac{R_e}{r_w}\right)}{2L_e} \frac{1}{t} \ln\frac{y_0}{y_t}$$

Effective Radius of Influence

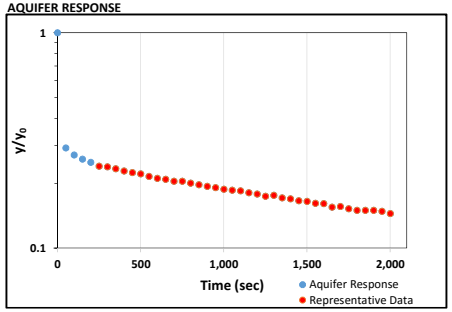
Partially Penetrating Well (L_w < H):

$$\ln\left(\frac{R_e}{r_w}\right) = \left[\frac{1.1}{\ln\left(\frac{L_w}{r_w}\right)} + \frac{A + B\ln\left[\frac{(H - L_w)}{r_w}\right]}{\left(\frac{L_e}{r_w}\right)}\right]^{-1}$$

Fully Penetrating Well (L_w = H):

$$\ln\left(\frac{R_e}{r_w}\right) = \left[\frac{1.1}{\ln\left(\frac{L_w}{r_w}\right)} + \frac{C}{\left(\frac{L_e}{r_w}\right)}\right]^{-1}$$

AQUIFER RESPONSE



AQUIFER RESPONSE

Time (sec)	Hydraulic Head (ft)	y (ft)	y/y_0 (ft)
0	6.78	1.20	1.00
50	7.62	0.35	0.29
100	7.65	0.32	0.27
150	7.66	0.31	0.26
200	7.67	0.30	0.25
250	7.68	0.29	0.24
300	7.69	0.29	0.24
350	7.69	0.28	0.23
400	7.70	0.27	0.23
450	7.70	0.27	0.22
500	7.71	0.26	0.22
550	7.71	0.26	0.22
600	7.72	0.25	0.21
650	7.72	0.25	0.21
700	7.73	0.24	0.20
750	7.73	0.24	0.20
800	7.73	0.24	0.20
850	7.74	0.23	0.20
900	7.74	0.23	0.19
950	7.74	0.23	0.19
1,000	7.75	0.22	0.19
1,050	7.75	0.22	0.19
1,100	7.75	0.22	0.18
1,150	7.75	0.22	0.18
1,200	7.76	0.21	0.18
1,250	7.76	0.21	0.17
1,300	7.76	0.21	0.18
1,350	7.77	0.20	0.17
1,400	7.77	0.20	0.17
1,450	7.77	0.20	0.17
1,500	7.77	0.20	0.16
1,550	7.78	0.19	0.16
1,600	7.78	0.19	0.16
1,650	7.79	0.19	0.15
1,700	7.78	0.19	0.16
1,750	7.79	0.18	0.15
1,800	7.79	0.18	0.15
1,850	7.79	0.18	0.15
1,900	7.79	0.18	0.15
1,950	7.79	0.18	0.15
2,000	7.80	0.17	0.14

RESULTS

Hydraulic Conductivity

K =	2.67E-07	feet/second
	8.13E-06	**centimeters/second**

[1] Bouwer, Herman. 1989. The Bouwer and Rice Slug Test - An Update. Ground Water, Vol. 27, No. 3: 304-309.

Greentree Centre
7201 South 76th Street
Franklin, Wisconsin
Apex Project No.: PECO_2017-68

Results of Hydraulic Slug Testing: MW-2

WELL INFORMATION

Well ID:	**MW-2**	
Date:	Tuesday, September 12, 2017	
Test No.:	1	
Start Time:	17:00	
Test Type:	Rising Head	
Test Method:	Bail down	
Ground Elev.:	--	feet AMSL
TOC Elev.:	768.95	feet AMSL
Lithology:	3 inches asphalt; 4 inches aggregate; clayey gravelly sand (SW) to a depth of 4 feet bgs; gravelly silty clay (CL) do a depth of 10 feet bgs; glayey gravelly sand (SW) to a depth of 11 feet bgs; clayey silt (ML) with trace gravel to a depth of 15-1/2 feet; and silty clay (CL) to a depth of 18 feet bgs, where refusal was encountered.	

INPUT PARAMETERS

Well Construction:

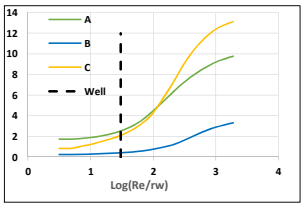
Borehole Radius (r_w) =	4	inch
Casing Radius (r_c) =	1	inch
Screen Length (L_e) =	10	feet
Screen Slot Open =	0.01	inch
Filter Pack:	7-1/2 to 19-1/2 00 Silica Sand	feet bgs
Annular Fill:	Bentonite	

Depths:

Well =	19.5	feet bgs
Stabilized Water Level (L_w)=	7.28	feet
Top of Screen =	9.5	feet bgs
Top of Aquifer =	1	feet bgs
Base of Aquifer (H)=	19.5	feet bgs

Dimensionless Parameters

$\log(L_e/r_w)$ =	1.5
A =	2.5
B =	0.4
C =	2.1

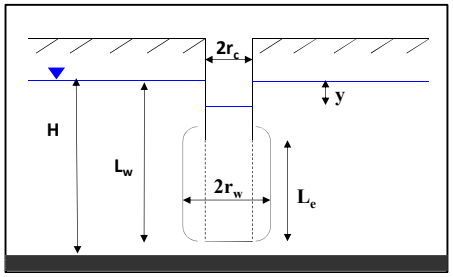


CALCULATIONS

Effective Radius of Influence (Partially Penetrating)

$\ln(R_e/r_w)$ =	2.63
Slope =	-5.13E-02

WELL DIAGRAM



BOUWER & RICE SLUG TEST EQUATIONS[1]

Hydraulic Conductivity

$$K = \frac{r_c^2 \ln\left(\frac{R_e}{r_w}\right)}{2L_e} \frac{1}{t} \ln\frac{y_0}{y_t}$$

Effective Radius of Influence

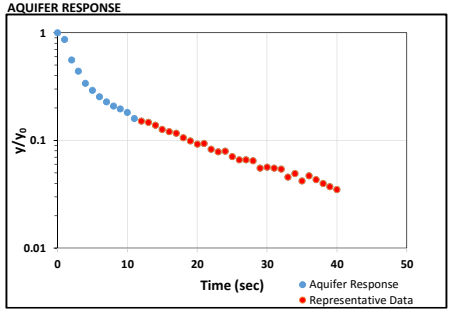
Partially Penetrating Well (L_w < H):

$$\ln\left(\frac{R_e}{r_w}\right) = \left[\frac{1.1}{\ln\left(\frac{L_w}{r_w}\right)} + \frac{A + B\ln\left[\frac{(H-L_w)}{r_w}\right]}{\left(\frac{L_e}{r_w}\right)}\right]^{-1}$$

Fully Penetrating Well (L_w = H):

$$\ln\left(\frac{R_e}{r_w}\right) = \left[\frac{1.1}{\ln\left(\frac{L_w}{r_w}\right)} + \frac{C}{\left(\frac{L_e}{r_w}\right)}\right]^{-1}$$

AQUIFER RESPONSE



AQUIFER RESPONSE

Time (sec)	Hydraulic Head (ft)	y (ft)	y/y_0 (ft)
0	6.45	0.83	1.00
1	6.56	0.72	0.86
2	6.82	0.46	0.56
3	6.91	0.37	0.44
4	7.00	0.28	0.34
5	7.04	0.24	0.29
6	7.07	0.21	0.25
7	7.09	0.19	0.23
8	7.11	0.17	0.21
9	7.12	0.16	0.20
10	7.13	0.15	0.18
11	7.15	0.13	0.16
12	7.15	0.13	0.15
13	7.16	0.12	0.15
14	7.17	0.12	0.14
15	7.18	0.11	0.13
16	7.18	0.10	0.12
17	7.18	0.10	0.12
18	7.19	0.09	0.11
19	7.20	0.08	0.10
20	7.20	0.08	0.09
21	7.20	0.08	0.09
22	7.21	0.07	0.08
23	7.22	0.07	0.08
24	7.21	0.07	0.08
25	7.22	0.06	0.07
26	7.23	0.06	0.07
27	7.23	0.06	0.07
28	7.23	0.05	0.06
29	7.23	0.05	0.06
30	7.23	0.05	0.06
31	7.23	0.05	0.06
32	7.24	0.04	0.05
33	7.24	0.04	0.05
34	7.24	0.04	0.05
35	7.25	0.04	0.04
36	7.24	0.04	0.05
37	7.24	0.04	0.04
38	7.25	0.03	0.04
39	7.25	0.03	0.04
40	7.25	0.03	0.03

RESULTS

Hydraulic Conductivity

K =	4.68E-05	feet/second
	1.43E-03	**centimeters/second**

[1] Bouwer, Herman. 1989. The Bouwer and Rice Slug Test - An Update. Ground Water, Vol. 27, No. 3: 304-309.

Greentree Centre
7201 South 76th Street
Franklin, Wisconsin
Apex Project No.: PECO_2017-68

Results of Hydraulic Slug Testing: MW-2

WELL INFORMATION

Well ID:	**MW-2**	
Date:	Tuesday, September 12, 2017	
Test No.:	2	
Start Time:	17:08	
Test Type:	Rising Head	
Test Method:	Bail down	
Ground Elev.:	--	feet AMSL
TOC Elev.:	768.95	feet AMSL
Lithology:	3 inches asphalt; 4 inches aggregate; clayey gravelly sand (SW) to a depth of 4 feet bgs; gravelly silty clay (CL) do a depth of 10 feet bgs; glayey gravelly sand (SW) to a depth of 11 feet bgs; clayey silt (ML) with trace gravel to a depth of 15-1/2 feet; and silty clay (CL) to a depth of 18 feet bgs, where refusal was encountered.	

INPUT PARAMETERS

Well Construction:

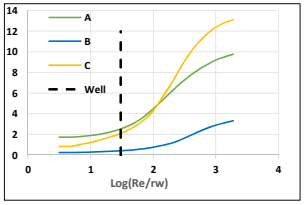
Borehole Radius (r_w) =	4	inch
Casing Radius (r_c) =	1	inch
Screen Length (L_e) =	10	feet
Screen Slot Open =	0.01	inch
Filter Pack:	7-1/2 to 19-1/2 00 Silica Sand	feet bgs
Annular Fill:	Bentonite	

Depths:

Well =	19.5	feet bgs
Stabilized Water Level (L_w)=	7.28	feet
Top of Screen =	9.5	feet bgs
Top of Aquifer =	1	feet bgs
Base of Aquifer (H)=	19.5	feet bgs

Dimensionless Parameters

log(L_e/r_w) =	1.5
A =	2.5
B =	0.4
C =	2.1

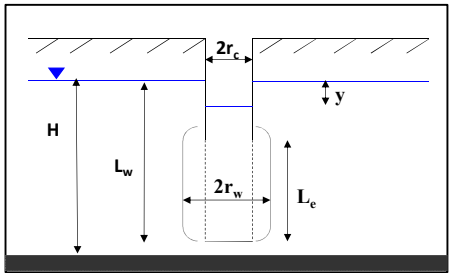


CALCULATIONS

Effective Radius of Influence (Partially Penetrating)

ln(R_e/r_w) =	2.63
Slope =	-3.97E-02

WELL DIAGRAM



BOUWER & RICE SLUG TEST EQUATIONS[1]

Hydraulic Conductivity

$$K = \frac{r_c^2 \ln\left(\frac{R_e}{r_w}\right)}{2L_e} \frac{1}{t} \ln\frac{y_0}{y_t}$$

Effective Radius of Influence

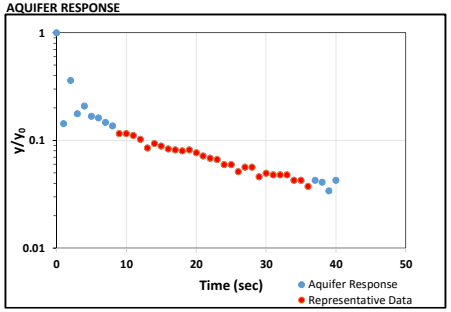
Partially Penetrating Well (L_w < H):

$$\ln\left(\frac{R_e}{r_w}\right) = \left[\frac{1.1}{\ln\left(\frac{L_w}{r_w}\right)} + \frac{A + B\ln\left[\frac{(H-L_w)}{r_w}\right]}{\left(\frac{L_e}{r_w}\right)}\right]^{-1}$$

Fully Penetrating Well (L_w = H):

$$\ln\left(\frac{R_e}{r_w}\right) = \left[\frac{1.1}{\ln\left(\frac{L_w}{r_w}\right)} + \frac{C}{\left(\frac{L_e}{r_w}\right)}\right]^{-1}$$

AQUIFER RESPONSE



AQUIFER RESPONSE

Time (sec)	Hydraulic Head (ft)	y (ft)	y/y_0 (ft)
0	6.69	0.59	1.00
1	7.20	0.08	0.14
2	7.07	0.21	0.36
3	7.18	0.10	0.18
4	7.16	0.12	0.21
5	7.18	0.10	0.17
6	7.19	0.10	0.16
7	7.19	0.09	0.15
8	7.20	0.08	0.14
9	7.21	0.07	0.12
10	7.21	0.07	0.12
11	7.22	0.07	0.11
12	7.22	0.06	0.10
13	7.23	0.05	0.09
14	7.23	0.06	0.09
15	7.23	0.05	0.09
16	7.23	0.05	0.08
17	7.23	0.05	0.08
18	7.23	0.05	0.08
19	7.23	0.05	0.08
20	7.24	0.04	0.08
21	7.24	0.04	0.07
22	7.24	0.04	0.07
23	7.24	0.04	0.07
24	7.25	0.04	0.06
25	7.25	0.04	0.06
26	7.25	0.03	0.05
27	7.25	0.03	0.06
28	7.25	0.03	0.06
29	7.25	0.03	0.05
30	7.25	0.03	0.05
31	7.25	0.03	0.05
32	7.25	0.03	0.05
33	7.25	0.03	0.05
34	7.26	0.03	0.04
35	7.26	0.03	0.04
36	7.26	0.02	0.04
37	7.26	0.03	0.04
38	7.26	0.02	0.04
39	7.26	0.02	0.03
40	7.26	0.03	0.04

RESULTS

Hydraulic Conductivity

K =	3.62E-05	feet/second
	1.10E-03	**centimeters/second**

[1] Bouwer, Herman. 1989. The Bouwer and Rice Slug Test - An Update. Ground Water, Vol. 27, No. 3: 304-309.

Greentree Centre
7201 South 76th Street
Franklin, Wisconsin
Apex Project No.: PECO_2017-68

Results of Hydraulic Slug Testing: MW-2

WELL INFORMATION

Well ID:	**MW-2**	
Date:	Tuesday, September 12, 2017	
Test No.:	3	
Start Time:	17:15	
Test Type:	Rising Head	
Test Method:	Bail down	
Ground Elev.:	--	feet AMSL
TOC Elev.:	768.95	feet AMSL
Lithology:	3 inches asphalt; 4 inches aggregate; clayey gravelly sand (SW) to a depth of 4 feet bgs; gravelly silty clay (CL) do a depth of 10 feet bgs; glayey gravelly sand (SW) to a depth of 11 feet bgs; clayey silt (ML) with trace gravel to a depth of 15-1/2 feet; and silty clay (CL) to a depth of 18 feet bgs, where refusal was encountered.	

INPUT PARAMETERS

Well Construction:

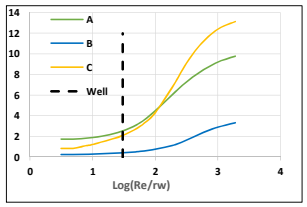
Borehole Radius (r_w) =	4	inch
Casing Radius (r_c) =	1	inch
Screen Length (L_e) =	10	feet
Screen Slot Open =	0.01	inch
Filter Pack:	7-1/2 to 19-1/2 00 Silica Sand	feet bgs
Annular Fill:	Bentonite	

Depths:

Well =	19.5	feet bgs
Stabilized Water Level (L_w)=	7.27	feet
Top of Screen =	9.5	feet bgs
Top of Aquifer =	1	feet bgs
Base of Aquifer (H)=	19.5	feet bgs

Dimensionless Parameters

$\log(L_e/r_w)$ =	1.5
A =	2.5
B =	0.4
C =	2.1

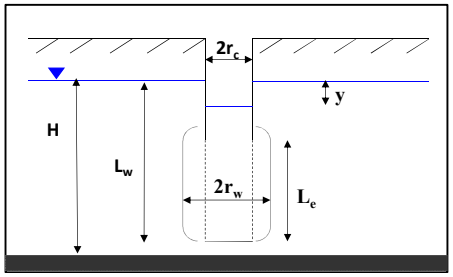


CALCULATIONS

Effective Radius of Influence (Partially Penetrating)

$\ln(R_e/r_w)$ =	2.63
Slope =	-5.20E-02

WELL DIAGRAM



BOUWER & RICE SLUG TEST EQUATIONS[1]

Hydraulic Conductivity

$$K = \frac{r_c^2 \ln\left(\frac{R_e}{r_w}\right)}{2L_e} \frac{1}{t} \ln\frac{y_0}{y_t}$$

Effective Radius of Influence

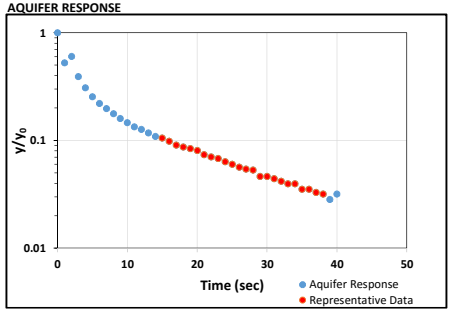
Partially Penetrating Well ($L_w < H$):

$$\ln\left(\frac{R_e}{r_w}\right) = \left[\frac{1.1}{\ln\left(\frac{L_w}{r_w}\right)} + \frac{A + B\ln\left[\frac{(H - L_w)}{r_w}\right]}{\left(\frac{L_e}{r_w}\right)}\right]^{-1}$$

Fully Penetrating Well ($L_w = H$):

$$\ln\left(\frac{R_e}{r_w}\right) = \left[\frac{1.1}{\ln\left(\frac{L_w}{r_w}\right)} + \frac{C}{\left(\frac{L_e}{r_w}\right)}\right]^{-1}$$

AQUIFER RESPONSE



AQUIFER RESPONSE

Time (sec)	Hydraulic Head (ft)	y (ft)	y/y_0 (ft)
0	6.39	0.89	1.00
1	6.81	0.47	0.53
2	6.74	0.53	0.60
3	6.93	0.35	0.39
4	7.00	0.27	0.31
5	7.05	0.23	0.25
6	7.08	0.19	0.22
7	7.10	0.17	0.20
8	7.11	0.16	0.18
9	7.13	0.14	0.16
10	7.14	0.13	0.15
11	7.15	0.12	0.13
12	7.16	0.11	0.13
13	7.17	0.10	0.12
14	7.17	0.10	0.11
15	7.18	0.09	0.11
16	7.18	0.09	0.10
17	7.19	0.08	0.09
18	7.19	0.08	0.09
19	7.20	0.07	0.08
20	7.20	0.07	0.08
21	7.21	0.06	0.07
22	7.21	0.06	0.07
23	7.21	0.06	0.07
24	7.21	0.06	0.06
25	7.22	0.05	0.06
26	7.22	0.05	0.06
27	7.22	0.05	0.05
28	7.22	0.05	0.05
29	7.23	0.04	0.05
30	7.23	0.04	0.05
31	7.23	0.04	0.04
32	7.23	0.04	0.04
33	7.24	0.03	0.04
34	7.24	0.03	0.04
35	7.24	0.03	0.04
36	7.24	0.03	0.04
37	7.24	0.03	0.03
38	7.24	0.03	0.03
39	7.25	0.02	0.03
40	7.24	0.03	0.03

RESULTS

Hydraulic Conductivity

K =	4.74E-05	feet/second
	1.45E-03	**centimeters/second**

[1] Bouwer, Herman. 1989. The Bouwer and Rice Slug Test - An Update. Ground Water, Vol. 27, No. 3: 304-309.

Greentree Centre
7201 South 76th Street
Franklin, Wisconsin
Apex Project No.: PECO_2017-68

Results of Hydraulic Slug Testing: MW-3

WELL INFORMATION

Well ID:	**MW-3**	
Date:	Tuesday, September 12, 2017	
Test No.:	1	
Start Time:	17:20	
Test Type:	Rising Head	
Test Method:	Bail down	
Ground Elev.:	--	feet AMSL
TOC Elev.:	769.31	feet AMSL
Lithology:	5 inches asphalt; 8 inches aggregate; silty clay (CL) to a depth of 8 feet bgs; clayey silt (ML) to a depth of 12 feet bgs, where refusal was encountered.	

INPUT PARAMETERS

Well Construction:

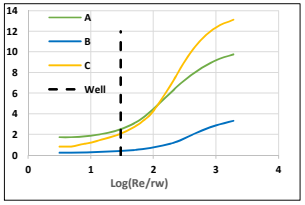
Borehole Radius (r_w) =	4	inch
Casing Radius (r_c) =	1	inch
Screen Length (L_e) =	10	feet
Screen Slot Open =	0.01	inch
Filter Pack:	3 to 15 00 Silica Sand	feet bgs
Annular Fill:	Bentonite	

Depths:

Well =	15	feet bgs
Stabilized Water Level (L_w)=	6.54	feet
Top of Screen =	5	feet bgs
Top of Aquifer =	8	feet bgs
Base of Aquifer (H)=	15	feet bgs

Dimensionless Parameters

log(L_e/r_w) =	1.5
A =	2.5
B =	0.4
C =	2.1

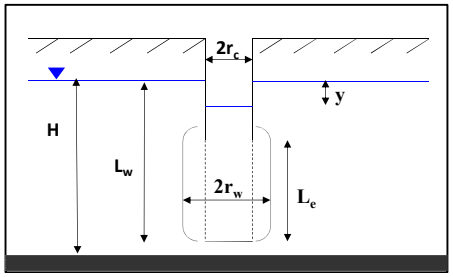


CALCULATIONS

Effective Radius of Influence (Partially Penetrating)

ln(R_e/r_w) =	2.62
Slope =	-1.12E-04

WELL DIAGRAM



BOUWER & RICE SLUG TEST EQUATIONS[1]

Hydraulic Conductivity

$$K = \frac{r_c^2 \ln\left(\frac{R_e}{r_w}\right)}{2L_e} \frac{1}{t} \ln\frac{y_0}{y_t}$$

Effective Radius of Influence

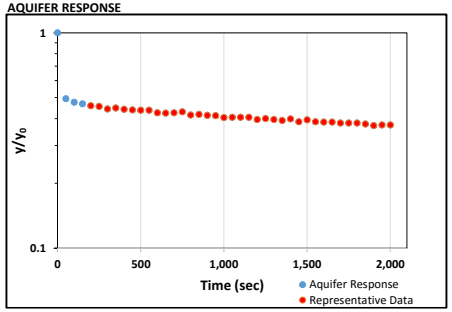
Partially Penetrating Well ($L_w < H$):

$$\ln\left(\frac{R_e}{r_w}\right) = \left[\frac{1.1}{\ln\left(\frac{L_w}{r_w}\right)} + \frac{A + B\ln\left[\frac{(H - L_w)}{r_w}\right]}{\left(\frac{L_e}{r_w}\right)}\right]^{-1}$$

Fully Penetrating Well ($L_w = H$):

$$\ln\left(\frac{R_e}{r_w}\right) = \left[\frac{1.1}{\ln\left(\frac{L_w}{r_w}\right)} + \frac{C}{\left(\frac{L_e}{r_w}\right)}\right]^{-1}$$

AQUIFER RESPONSE



AQUIFER RESPONSE

Time (sec)	Hydraulic Head (ft)	y (ft)	y/y_0 (ft)
0	6.03	0.51	1.00
50	6.29	0.25	0.49
100	6.30	0.24	0.48
150	6.30	0.24	0.47
200	6.31	0.24	0.46
250	6.31	0.23	0.45
300	6.31	0.23	0.44
350	6.31	0.23	0.45
400	6.31	0.23	0.44
450	6.32	0.23	0.44
500	6.32	0.22	0.44
550	6.32	0.22	0.44
600	6.32	0.22	0.42
650	6.32	0.22	0.42
700	6.32	0.22	0.42
750	6.32	0.22	0.43
800	6.33	0.21	0.42
850	6.33	0.21	0.42
900	6.33	0.21	0.41
950	6.33	0.21	0.41
1,000	6.33	0.21	0.40
1,050	6.33	0.21	0.41
1,100	6.33	0.21	0.41
1,150	6.33	0.21	0.41
1,200	6.34	0.20	0.40
1,250	6.34	0.21	0.40
1,300	6.34	0.20	0.40
1,350	6.34	0.20	0.39
1,400	6.34	0.20	0.40
1,450	6.34	0.20	0.39
1,500	6.34	0.20	0.39
1,550	6.34	0.20	0.39
1,600	6.34	0.20	0.38
1,650	6.34	0.20	0.38
1,700	6.35	0.20	0.38
1,750	6.35	0.20	0.38
1,800	6.35	0.20	0.38
1,850	6.35	0.19	0.38
1,900	6.35	0.19	0.37
1,950	6.35	0.19	0.37
2,000	6.35	0.19	0.37

RESULTS

Hydraulic Conductivity

K =	1.02E-07	feet/second
	3.10E-06	**centimeters/second**

[1] Bouwer, Herman. 1989. The Bouwer and Rice Slug Test - An Update. Ground Water, Vol. 27, No. 3: 304-309.

Appendix E

Laboratory Reports

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

September 09, 2016

Apex Companies, LLC
1701 East Woodfield Rd, Suite 333
Schaumburg, IL 60173
Telephone: (847) 956-8589
Fax: (847) 956-8619

Analytical Report for STAT Work Order: 16081298 Revision 0

RE: PECO-216-78, Bright Cleaners-Franklin Centre, 7249 S. 76th St., Franklin

Dear Joseph Becker:

STAT Analysis received 8 samples for the referenced project on 8/31/2016 4:45:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements specifed in WAC 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,

Craig Chawla
Project Manager

Client: Apex Companies, LLC
Project: PECO-216-78, Bright Cleaners-Franklin Centre, 7249
Work Order: 16081298 Revision 0

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
16081298-001A	TW-1 @ 14'		8/31/2016 10:00:00 AM	8/31/2016
16081298-001B	TW-1 @ 14'		8/31/2016 10:00:00 AM	8/31/2016
16081298-002A	TW-2 @ 11'		8/31/2016 10:30:00 AM	8/31/2016
16081298-002B	TW-2 @ 11'		8/31/2016 10:30:00 AM	8/31/2016
16081298-003A	TW-3 @ 12'		8/31/2016 11:00:00 AM	8/31/2016
16081298-003B	TW-3 @ 12'		8/31/2016 11:00:00 AM	8/31/2016
16081298-004A	TW-1		8/31/2016 11:15:00 AM	8/31/2016
16081298-005A	TW-3		8/31/2016 12:40:00 PM	8/31/2016
16081298-006A	SV-1		8/31/2016 12:28:00 PM	8/31/2016
16081298-007A	SV-2		8/31/2016 12:32:00 PM	8/31/2016
16081298-008A	SV-3		8/31/2016 12:34:00 PM	8/31/2016

CLIENT: Apex Companies, LLC
Project: PECO-216-78, Bright Cleaners-Franklin Centre, 7249 S. 76t
Work Order: 16081298 Revision 0

CASE NARRATIVE

TO-15 results that are reported in mg/m³ 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 LCS analyzed 09/06/2016 had the following outside of control limits:
1,2,4-Trimethylbenzene: 133.6% (LCS) recovery (QC Limits 70-130%)
1,3-Dichlorobenzene: 131.2% (LCS) recovery (QC Limits 70-130%)
Ethylbenzene: 134.8% (LCS) recovery (QC Limits 70-130%)
Naphthalene: 138.8% (LCS) recovery (QC Limits 70-130%)
Total Xylenes: 132.5% (LCS) recovery (QC Limits 70-130%)

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: September 09, 2016
Date Printed: September 09, 2016

ANALYTICAL RESULTS

CLIENT: Apex Companies, LLC
Work Order: 16081298 Revision 0
Project: PECO-216-78, Bright Cleaners-Franklin Centre, 7249
Lab ID: 16081298-001

Client Sample ID: TW-1 @ 14'
Collection Date: 8/31/2016 10:00:00 AM
Matrix: SOIL

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		**SW5035/8260B**		Prep Date: **8/31/2016**			Analyst: **PS**
Acetone	0.029	0.073	0.0022	JB	mg/Kg-dry	1	9/2/2016
Benzene	0.0018	0.0049	0.00019	J	mg/Kg-dry	1	9/2/2016
Bromodichloromethane	ND	0.0049	0.00039		mg/Kg-dry	1	9/2/2016
Bromoform	ND	0.0049	0.00039		mg/Kg-dry	1	9/2/2016
Bromomethane	ND	0.0097	0.00049		mg/Kg-dry	1	9/2/2016
2-Butanone	ND	0.073	0.0015		mg/Kg-dry	1	9/2/2016
Carbon disulfide	0.00019	0.049	0.00019	J	mg/Kg-dry	1	9/2/2016
Carbon tetrachloride	ND	0.0049	0.00029		mg/Kg-dry	1	9/2/2016
Chlorobenzene	ND	0.0049	0.00019		mg/Kg-dry	1	9/2/2016
Chloroethane	ND	0.0097	0.00039		mg/Kg-dry	1	9/2/2016
Chloroform	ND	0.0049	0.00019		mg/Kg-dry	1	9/2/2016
Chloromethane	ND	0.0097	0.00029		mg/Kg-dry	1	9/2/2016
Dibromochloromethane	ND	0.0049	0.00039		mg/Kg-dry	1	9/2/2016
1,1-Dichloroethane	ND	0.0049	0.00029		mg/Kg-dry	1	9/2/2016
1,2-Dichloroethane	ND	0.0049	0.00058		mg/Kg-dry	1	9/2/2016
1,1-Dichloroethene	ND	0.0049	0.00029		mg/Kg-dry	1	9/2/2016
cis-1,2-Dichloroethene	ND	0.0049	0.00029		mg/Kg-dry	1	9/2/2016
trans-1,2-Dichloroethene	ND	0.0049	0.00029		mg/Kg-dry	1	9/2/2016
1,2-Dichloropropane	ND	0.0049	0.00039		mg/Kg-dry	1	9/2/2016
cis-1,3-Dichloropropene	ND	0.0019	0.00019		mg/Kg-dry	1	9/2/2016
trans-1,3-Dichloropropene	ND	0.0019	0.00029		mg/Kg-dry	1	9/2/2016
Ethylbenzene	0.00026	0.0049	0.000097	J	mg/Kg-dry	1	9/2/2016
2-Hexanone	ND	0.019	0.00078		mg/Kg-dry	1	9/2/2016
4-Methyl-2-pentanone	ND	0.019	0.00029		mg/Kg-dry	1	9/2/2016
Methylene chloride	0.0019	0.0097	0.00078	JB	mg/Kg-dry	1	9/2/2016
Methyl tert-butyl ether	ND	0.0049	0.00019		mg/Kg-dry	1	9/2/2016
Styrene	ND	0.0049	0.00019		mg/Kg-dry	1	9/2/2016
1,1,2,2-Tetrachloroethane	ND	0.0049	0.00019		mg/Kg-dry	1	9/2/2016
Tetrachloroethene	ND	0.0049	0.00029		mg/Kg-dry	1	9/2/2016
Toluene	0.0017	0.0049	0.00019	J	mg/Kg-dry	1	9/2/2016
1,1,1-Trichloroethane	ND	0.0049	0.00019		mg/Kg-dry	1	9/2/2016
1,1,2-Trichloroethane	ND	0.0049	0.00049		mg/Kg-dry	1	9/2/2016
Trichloroethene	ND	0.0049	0.00019		mg/Kg-dry	1	9/2/2016
Vinyl chloride	ND	0.0049	0.00039		mg/Kg-dry	1	9/2/2016
Xylenes, Total	ND	0.015	0.00039		mg/Kg-dry	1	9/2/2016
Percent Moisture		**D2974**		Prep Date: **9/1/2016**			Analyst: **GH**
Percent Moisture	13.5	0.2	0.1	*	wt%	1	9/2/2016

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

Date Reported: September 09, 2016
Date Printed: September 09, 2016

ANALYTICAL RESULTS

CLIENT: Apex Companies, LLC
Work Order: 16081298 Revision 0
Project: PECO-216-78, Bright Cleaners-Franklin Centre, 7249
Lab ID: 16081298-002

Client Sample ID: TW-2 @ 11'
Collection Date: 8/31/2016 10:30:00 AM
Matrix: SOIL

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		**SW5035/8260B**		Prep Date: **8/31/2016**		Analyst: **JNM**	
Acetone	ND	0.053	0.0016		mg/Kg-dry	1	9/6/2016
Benzene	0.00044	0.0035	0.00014	J	mg/Kg-dry	1	9/6/2016
Bromodichloromethane	ND	0.0035	0.00028		mg/Kg-dry	1	9/6/2016
Bromoform	ND	0.0035	0.00028		mg/Kg-dry	1	9/6/2016
Bromomethane	ND	0.0070	0.00035		mg/Kg-dry	1	9/6/2016
2-Butanone	ND	0.053	0.0011		mg/Kg-dry	1	9/6/2016
Carbon disulfide	0.00051	0.035	0.00014	J	mg/Kg-dry	1	9/6/2016
Carbon tetrachloride	ND	0.0035	0.00021		mg/Kg-dry	1	9/6/2016
Chlorobenzene	ND	0.0035	0.00014		mg/Kg-dry	1	9/6/2016
Chloroethane	ND	0.0070	0.00028		mg/Kg-dry	1	9/6/2016
Chloroform	ND	0.0035	0.00014		mg/Kg-dry	1	9/6/2016
Chloromethane	ND	0.0070	0.00021		mg/Kg-dry	1	9/6/2016
Dibromochloromethane	ND	0.0035	0.00028		mg/Kg-dry	1	9/6/2016
1,1-Dichloroethane	ND	0.0035	0.00021		mg/Kg-dry	1	9/6/2016
1,2-Dichloroethane	ND	0.0035	0.00042		mg/Kg-dry	1	9/6/2016
1,1-Dichloroethene	ND	0.0035	0.00021		mg/Kg-dry	1	9/6/2016
cis-1,2-Dichloroethene	ND	0.0035	0.00021		mg/Kg-dry	1	9/6/2016
trans-1,2-Dichloroethene	ND	0.0035	0.00021		mg/Kg-dry	1	9/6/2016
1,2-Dichloropropane	ND	0.0035	0.00028		mg/Kg-dry	1	9/6/2016
cis-1,3-Dichloropropene	ND	0.0014	0.00014		mg/Kg-dry	1	9/6/2016
trans-1,3-Dichloropropene	ND	0.0014	0.00021		mg/Kg-dry	1	9/6/2016
Ethylbenzene	ND	0.0035	0.00007		mg/Kg-dry	1	9/6/2016
2-Hexanone	ND	0.014	0.00056		mg/Kg-dry	1	9/6/2016
4-Methyl-2-pentanone	ND	0.014	0.00021		mg/Kg-dry	1	9/6/2016
Methylene chloride	ND	0.0070	0.00056		mg/Kg-dry	1	9/6/2016
Methyl tert-butyl ether	ND	0.0035	0.00014		mg/Kg-dry	1	9/6/2016
Styrene	ND	0.0035	0.00014		mg/Kg-dry	1	9/6/2016
1,1,2,2-Tetrachloroethane	ND	0.0035	0.00014		mg/Kg-dry	1	9/6/2016
Tetrachloroethene	ND	0.0035	0.00021		mg/Kg-dry	1	9/6/2016
Toluene	0.00046	0.0035	0.00014	J	mg/Kg-dry	1	9/6/2016
1,1,1-Trichloroethane	ND	0.0035	0.00014		mg/Kg-dry	1	9/6/2016
1,1,2-Trichloroethane	ND	0.0035	0.00035		mg/Kg-dry	1	9/6/2016
Trichloroethene	ND	0.0035	0.00014		mg/Kg-dry	1	9/6/2016
Vinyl chloride	ND	0.0035	0.00028		mg/Kg-dry	1	9/6/2016
Xylenes, Total	ND	0.011	0.00028		mg/Kg-dry	1	9/6/2016
Percent Moisture		**D2974**		Prep Date: **9/1/2016**		Analyst: **GH**	
Percent Moisture	6.7	0.2	0.1	*	wt%	1	9/2/2016

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

Date Reported: September 09, 2016
Date Printed: September 09, 2016

ANALYTICAL RESULTS

CLIENT: Apex Companies, LLC
Work Order: 16081298 Revision 0
Project: PECO-216-78, Bright Cleaners-Franklin Centre, 7249
Lab ID: 16081298-003

Client Sample ID: TW-3 @ 12'
Collection Date: 8/31/2016 11:00:00 AM
Matrix: SOIL

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		**SW5035/8260B**		Prep Date: **8/31/2016**			Analyst: **JNM**
Acetone	ND	0.058	0.0018		mg/Kg-dry	1	9/6/2016
Benzene	0.00045	0.0039	0.00015	J	mg/Kg-dry	1	9/6/2016
Bromodichloromethane	ND	0.0039	0.00031		mg/Kg-dry	1	9/6/2016
Bromoform	ND	0.0039	0.00031		mg/Kg-dry	1	9/6/2016
Bromomethane	ND	0.0077	0.00039		mg/Kg-dry	1	9/6/2016
2-Butanone	ND	0.058	0.0012		mg/Kg-dry	1	9/6/2016
Carbon disulfide	ND	0.039	0.00015		mg/Kg-dry	1	9/6/2016
Carbon tetrachloride	ND	0.0039	0.00023		mg/Kg-dry	1	9/6/2016
Chlorobenzene	ND	0.0039	0.00015		mg/Kg-dry	1	9/6/2016
Chloroethane	ND	0.0077	0.00031		mg/Kg-dry	1	9/6/2016
Chloroform	ND	0.0039	0.00015		mg/Kg-dry	1	9/6/2016
Chloromethane	ND	0.0077	0.00023		mg/Kg-dry	1	9/6/2016
Dibromochloromethane	ND	0.0039	0.00031		mg/Kg-dry	1	9/6/2016
1,1-Dichloroethane	ND	0.0039	0.00023		mg/Kg-dry	1	9/6/2016
1,2-Dichloroethane	ND	0.0039	0.00046		mg/Kg-dry	1	9/6/2016
1,1-Dichloroethene	ND	0.0039	0.00023		mg/Kg-dry	1	9/6/2016
cis-1,2-Dichloroethene	ND	0.0039	0.00023		mg/Kg-dry	1	9/6/2016
trans-1,2-Dichloroethene	ND	0.0039	0.00023		mg/Kg-dry	1	9/6/2016
1,2-Dichloropropane	ND	0.0039	0.00031		mg/Kg-dry	1	9/6/2016
cis-1,3-Dichloropropene	ND	0.0015	0.00015		mg/Kg-dry	1	9/6/2016
trans-1,3-Dichloropropene	ND	0.0015	0.00023		mg/Kg-dry	1	9/6/2016
Ethylbenzene	ND	0.0039	0.000077		mg/Kg-dry	1	9/6/2016
2-Hexanone	ND	0.015	0.00062		mg/Kg-dry	1	9/6/2016
4-Methyl-2-pentanone	ND	0.015	0.00023		mg/Kg-dry	1	9/6/2016
Methylene chloride	ND	0.0077	0.00062		mg/Kg-dry	1	9/6/2016
Methyl tert-butyl ether	ND	0.0039	0.00015		mg/Kg-dry	1	9/6/2016
Styrene	ND	0.0039	0.00015		mg/Kg-dry	1	9/6/2016
1,1,2,2-Tetrachloroethane	ND	0.0039	0.00015		mg/Kg-dry	1	9/6/2016
Tetrachloroethene	ND	0.0039	0.00023		mg/Kg-dry	1	9/6/2016
Toluene	0.00041	0.0039	0.00015	J	mg/Kg-dry	1	9/6/2016
1,1,1-Trichloroethane	ND	0.0039	0.00015		mg/Kg-dry	1	9/6/2016
1,1,2-Trichloroethane	ND	0.0039	0.00039		mg/Kg-dry	1	9/6/2016
Trichloroethene	ND	0.0039	0.00015		mg/Kg-dry	1	9/6/2016
Vinyl chloride	ND	0.0039	0.00031		mg/Kg-dry	1	9/6/2016
Xylenes, Total	ND	0.012	0.00031		mg/Kg-dry	1	9/6/2016
Percent Moisture		**D2974**		Prep Date: **9/1/2016**			Analyst: **GH**
Percent Moisture	11.1	0.2	0.1	*	wt%	1	9/2/2016

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

Date Reported: September 09, 2016
Date Printed: September 09, 2016

ANALYTICAL RESULTS

CLIENT: Apex Companies, LLC
Work Order: 16081298 Revision 0
Project: PECO-216-78, Bright Cleaners-Franklin Centre, 7249
Lab ID: 16081298-004

Client Sample ID: TW-1
Collection Date: 8/31/2016 11:15:00 AM
Matrix: AQUEOUS

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		**SW8260B (SW5030B)**		Prep Date:			Analyst: **RRS**
Acetone	ND	0.020	0.0031		mg/L	1	9/1/2016
Benzene	ND	0.00050	0.0002		mg/L	1	9/1/2016
Bromodichloromethane	ND	0.00050	0.0002		mg/L	1	9/1/2016
Bromoform	ND	0.0010	0.0003		mg/L	1	9/1/2016
Bromomethane	ND	0.0050	0.002		mg/L	1	9/1/2016
2-Butanone	ND	0.010	0.0016		mg/L	1	9/1/2016
Carbon disulfide	ND	0.0050	0.0003		mg/L	1	9/1/2016
Carbon tetrachloride	ND	0.00050	0.001		mg/L	1	9/1/2016
Chlorobenzene	ND	0.00050	0.0002		mg/L	1	9/1/2016
Chloroethane	ND	0.0050	0.0005		mg/L	1	9/1/2016
Chloroform	ND	0.00050	0.0001		mg/L	1	9/1/2016
Chloromethane	ND	0.0050	0.0003		mg/L	1	9/1/2016
Dibromochloromethane	ND	0.00050	0.0002		mg/L	1	9/1/2016
1,1-Dichloroethane	ND	0.00050	0.0002		mg/L	1	9/1/2016
1,2-Dichloroethane	ND	0.0010	0.0002		mg/L	1	9/1/2016
1,1-Dichloroethene	ND	0.0010	0.0004		mg/L	1	9/1/2016
cis-1,2-Dichloroethene	ND	0.0010	0.0002		mg/L	1	9/1/2016
trans-1,2-Dichloroethene	ND	0.0010	0.0005		mg/L	1	9/1/2016
1,2-Dichloropropane	ND	0.0010	0.0001		mg/L	1	9/1/2016
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	9/1/2016
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	9/1/2016
Ethylbenzene	ND	0.00050	0.0003		mg/L	1	9/1/2016
2-Hexanone	ND	0.010	0.0002		mg/L	1	9/1/2016
4-Methyl-2-pentanone	ND	0.010	0.0007		mg/L	1	9/1/2016
Methylene chloride	ND	0.0050	0.0002		mg/L	1	9/1/2016
Methyl tert-butyl ether	ND	0.00050	0.0003		mg/L	1	9/1/2016
Styrene	ND	0.0010	0.0003		mg/L	1	9/1/2016
1,1,2,2-Tetrachloroethane	ND	0.00050	0.0001		mg/L	1	9/1/2016
Tetrachloroethene	ND	0.0010	0.0003		mg/L	1	9/1/2016
Toluene	ND	0.00050	0.0004		mg/L	1	9/1/2016
1,1,1-Trichloroethane	ND	0.0010	0.0002		mg/L	1	9/1/2016
1,1,2-Trichloroethane	ND	0.00050	0.0001		mg/L	1	9/1/2016
Trichloroethene	ND	0.0010	0.0003		mg/L	1	9/1/2016
Vinyl chloride	ND	0.0010	0.0003		mg/L	1	9/1/2016
Xylenes, Total	ND	0.0030	0.001		mg/L	1	9/1/2016

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

Date Reported: September 09, 2016
Date Printed: September 09, 2016

ANALYTICAL RESULTS

CLIENT: Apex Companies, LLC
Work Order: 16081298 Revision 0
Project: PECO-216-78, Bright Cleaners-Franklin Centre, 7249
Lab ID: 16081298-005

Client Sample ID: TW-3
Collection Date: 8/31/2016 12:40:00 PM
Matrix: AQUEOUS

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		**SW8260B (SW5030B)**		Prep Date:			Analyst: **RRS**
Acetone	0.012	0.020	0.0031	J	mg/L	1	9/1/2016
Benzene	0.00024	0.00050	0.0002	J	mg/L	1	9/1/2016
Bromodichloromethane	ND	0.00050	0.0002		mg/L	1	9/1/2016
Bromoform	ND	0.0010	0.0003		mg/L	1	9/1/2016
Bromomethane	ND	0.0050	0.002		mg/L	1	9/1/2016
2-Butanone	ND	0.010	0.0016		mg/L	1	9/1/2016
Carbon disulfide	0.00034	0.0050	0.0003	J	mg/L	1	9/1/2016
Carbon tetrachloride	ND	0.00050	0.001		mg/L	1	9/1/2016
Chlorobenzene	ND	0.00050	0.0002		mg/L	1	9/1/2016
Chloroethane	ND	0.0050	0.0005		mg/L	1	9/1/2016
Chloroform	ND	0.00050	0.0001		mg/L	1	9/1/2016
Chloromethane	ND	0.0050	0.0003		mg/L	1	9/1/2016
Dibromochloromethane	ND	0.00050	0.0002		mg/L	1	9/1/2016
1,1-Dichloroethane	ND	0.00050	0.0002		mg/L	1	9/1/2016
1,2-Dichloroethane	ND	0.0010	0.0002		mg/L	1	9/1/2016
1,1-Dichloroethene	ND	0.0010	0.0004		mg/L	1	9/1/2016
cis-1,2-Dichloroethene	ND	0.0010	0.0002		mg/L	1	9/1/2016
trans-1,2-Dichloroethene	ND	0.0010	0.0005		mg/L	1	9/1/2016
1,2-Dichloropropane	ND	0.0010	0.0001		mg/L	1	9/1/2016
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	9/1/2016
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	9/1/2016
Ethylbenzene	ND	0.00050	0.0003		mg/L	1	9/1/2016
2-Hexanone	ND	0.010	0.0002		mg/L	1	9/1/2016
4-Methyl-2-pentanone	ND	0.010	0.0007		mg/L	1	9/1/2016
Methylene chloride	ND	0.0050	0.0002		mg/L	1	9/1/2016
Methyl tert-butyl ether	ND	0.00050	0.0003		mg/L	1	9/1/2016
Styrene	ND	0.0010	0.0003		mg/L	1	9/1/2016
1,1,2,2-Tetrachloroethane	ND	0.00050	0.0001		mg/L	1	9/1/2016
Tetrachloroethene	ND	0.0010	0.0003		mg/L	1	9/1/2016
Toluene	ND	0.00050	0.0004		mg/L	1	9/1/2016
1,1,1-Trichloroethane	ND	0.0010	0.0002		mg/L	1	9/1/2016
1,1,2-Trichloroethane	ND	0.00050	0.0001		mg/L	1	9/1/2016
Trichloroethene	ND	0.0010	0.0003		mg/L	1	9/1/2016
Vinyl chloride	ND	0.0010	0.0003		mg/L	1	9/1/2016
Xylenes, Total	ND	0.0030	0.001		mg/L	1	9/1/2016

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

Date Reported: September 09, 2016
Date Printed: September 09, 2016

ANALYTICAL RESULTS

CLIENT: Apex Companies, LLC
Work Order: 16081298 Revision 0
Project: PECO-216-78, Bright Cleaners-Franklin Centre, 7249
Lab ID: 16081298-006

Client Sample ID: SV-1
Collection Date: 8/31/2016 12:28:00 PM
Matrix: AIR

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS	**TO-15**			Prep Date: **9/2/2016**		Analyst: **NLM**	
1,1,1-Trichloroethane	ND	0.46	0.024		ppbv	1	9/6/2016
1,1,2,2-Tetrachloroethane	ND	0.46	0.032		ppbv	1	9/6/2016
1,1,2-Trichloroethane	ND	0.46	0.045		ppbv	1	9/6/2016
1,1-Dichloroethane	ND	0.46	0.022		ppbv	1	9/6/2016
1,1-Dichloroethene	ND	0.46	0.029		ppbv	1	9/6/2016
1,2,4-Trichlorobenzene	0.25	0.46	0.1	J	ppbv	1	9/6/2016
1,2,4-Trimethylbenzene	1.0	0.46	0.042		ppbv	1	9/6/2016
1,2-Dibromoethane	ND	0.46	0.052		ppbv	1	9/6/2016
1,2-Dichlorobenzene	0.069	0.46	0.038	J	ppbv	1	9/6/2016
1,2-Dichloroethane	ND	0.46	0.053		ppbv	1	9/6/2016
1,2-Dichloropropane	ND	0.46	0.032		ppbv	1	9/6/2016
1,3,5-Trimethylbenzene	0.28	0.46	0.032	J	ppbv	1	9/6/2016
1,3-Butadiene	ND	0.46	0.059		ppbv	1	9/6/2016
1,3-Dichlorobenzene	0.32	0.46	0.039	J	ppbv	1	9/6/2016
1,4-Dichlorobenzene	ND	0.46	0.049		ppbv	1	9/6/2016
1,4-Dioxane	ND	1.2	0.13		ppbv	1	9/6/2016
2-Butanone	2.3	1.2	0.11		ppbv	1	9/6/2016
2-Hexanone	0.76	2.3	0.13	J	ppbv	1	9/6/2016
4-Ethyltoluene	0.28	0.46	0.048	J	ppbv	1	9/6/2016
4-Methyl-2-pentanone	3.0	2.3	0.069		ppbv	1	9/6/2016
Acetone	34	4.6	0.16	*	ppbv	1	9/6/2016
Benzene	0.92	0.46	0.033		ppbv	1	9/6/2016
Benzyl chloride	ND	1.2	0.46		ppbv	1	9/6/2016
Bromodichloromethane	ND	0.46	0.032		ppbv	1	9/6/2016
Bromoform	ND	1.2	0.024		ppbv	1	9/6/2016
Bromomethane	0.14	1.2	0.054	J	ppbv	1	9/6/2016
Carbon disulfide	0.16	0.46	0.12	J	ppbv	1	9/6/2016
Carbon tetrachloride	ND	0.46	0.064		ppbv	1	9/6/2016
Chlorobenzene	ND	0.46	0.029		ppbv	1	9/6/2016
Chloroethane	ND	0.46	0.46		ppbv	1	9/6/2016
Chloroform	0.046	0.46	0.025	J	ppbv	1	9/6/2016
Chloromethane	ND	1.2	0.11		ppbv	1	9/6/2016
cis-1,2-Dichloroethene	0.44	0.46	0.034	J	ppbv	1	9/6/2016
cis-1,3-Dichloropropene	ND	0.46	0.054		ppbv	1	9/6/2016
Cyclohexane	0.71	0.46	0.098		ppbv	1	9/6/2016
Dibromochloromethane	ND	0.46	0.037		ppbv	1	9/6/2016
Dichlorodifluoromethane	0.46	0.46	0.015		ppbv	1	9/6/2016
Ethyl acetate	ND	1.2	0.092		ppbv	1	9/6/2016

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

Date Reported: September 09, 2016
Date Printed: September 09, 2016

ANALYTICAL RESULTS

CLIENT: Apex Companies, LLC
Work Order: 16081298 Revision 0
Project: PECO-216-78, Bright Cleaners-Franklin Centre, 7249
Lab ID: 16081298-006

Client Sample ID: SV-1
Collection Date: 8/31/2016 12:28:00 PM
Matrix: AIR

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS **TO-15**				Prep Date: **9/2/2016**		Analyst: **NLM**	
Ethylbenzene	0.90	0.46	0.036		ppbv	1	9/6/2016
Freon-113	ND	0.46	0.017		ppbv	1	9/6/2016
Freon-114	ND	2.3	0.066		ppbv	1	9/6/2016
Heptane	1.3	0.46	0.045		ppbv	1	9/6/2016
Hexachlorobutadiene	0.069	0.46	0.052	J	ppbv	1	9/6/2016
Hexane	1.8	1.2	0.032		ppbv	1	9/6/2016
Isopropyl Alcohol	130	58	4.5		ppbv	25	9/7/2016
m,p-Xylene	2.0	0.92	0.068		ppbv	1	9/6/2016
Methyl tert-butyl ether	0.069	0.46	0.038	J	ppbv	1	9/6/2016
Methylene chloride	0.28	4.6	0.25	J	ppbv	1	9/6/2016
Naphthalene	0.53	0.46	0.13		ppbv	1	9/6/2016
o-Xylene	0.83	0.46	0.029		ppbv	1	9/6/2016
Propene	3.7	4.6	0.46	J	ppbv	1	9/6/2016
Styrene	0.18	0.46	0.049	J	ppbv	1	9/6/2016
Tetrachloroethene	1800	12	0.83		ppbv	25	9/7/2016
Tetrahydrofuran	2.8	1.2	0.1		ppbv	1	9/6/2016
Toluene	22	0.46	0.052		ppbv	1	9/6/2016
trans-1,2-Dichloroethene	ND	0.46	0.032		ppbv	1	9/6/2016
trans-1,3-Dichloropropene	ND	0.46	0.063		ppbv	1	9/6/2016
Trichloroethene	4.0	0.46	0.035		ppbv	1	9/6/2016
Trichlorofluoromethane	0.28	0.46	0.029	J	ppbv	1	9/6/2016
Vinyl acetate	ND	4.6	0.062		ppbv	1	9/6/2016
Vinyl chloride	ND	0.46	0.039		ppbv	1	9/6/2016
Xylenes, Total	2.9	1.4	0.096		ppbv	1	9/6/2016
Volatile Organic Compounds in Air by GC/MS **TO-15**				Prep Date: **9/2/2016**		Analyst: **NLM**	
1,1,1-Trichloroethane	ND	0.0025	0.00013		mg/m³	1	9/6/2016
1,1,2,2-Tetrachloroethane	ND	0.0032	0.00022		mg/m³	1	9/6/2016
1,1,2-Trichloroethane	ND	0.0025	0.00024		mg/m³	1	9/6/2016
1,1-Dichloroethane	ND	0.0019	0.00009		mg/m³	1	9/6/2016
1,1-Dichloroethene	ND	0.0018	0.00012		mg/m³	1	9/6/2016
1,2,4-Trichlorobenzene	0.0019	0.0034	0.00076	J	mg/m³	1	9/6/2016
1,2,4-Trimethylbenzene	0.0051	0.0023	0.00021		mg/m³	1	9/6/2016
1,2-Dibromoethane	ND	0.0035	0.0004		mg/m³	1	9/6/2016
1,2-Dichlorobenzene	0.00042	0.0028	0.00023	J	mg/m³	1	9/6/2016
1,2-Dichloroethane	ND	0.0019	0.00021		mg/m³	1	9/6/2016
1,2-Dichloropropane	ND	0.0021	0.00015		mg/m³	1	9/6/2016
1,3,5-Trimethylbenzene	0.0014	0.0023	0.00016	J	mg/m³	1	9/6/2016
1,3-Butadiene	ND	0.0010	0.00013		mg/m³	1	9/6/2016

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

Date Reported: September 09, 2016
Date Printed: September 09, 2016

ANALYTICAL RESULTS

CLIENT: Apex Companies, LLC
Work Order: 16081298 Revision 0
Project: PECO-216-78, Bright Cleaners-Franklin Centre, 7249
Lab ID: 16081298-006

Client Sample ID: SV-1
Collection Date: 8/31/2016 12:28:00 PM
Matrix: AIR

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS **TO-15**				Prep Date: **9/2/2016**		Analyst: **NLM**	
1,3-Dichlorobenzene	0.0019	0.0028	0.00023	J	mg/m³	1	9/6/2016
1,4-Dichlorobenzene	ND	0.0028	0.00029		mg/m³	1	9/6/2016
1,4-Dioxane	ND	0.0041	0.00048		mg/m³	1	9/6/2016
2-Butanone	0.0067	0.0034	0.00031		mg/m³	1	9/6/2016
2-Hexanone	0.0031	0.0094	0.00051	J	mg/m³	1	9/6/2016
4-Ethyltoluene	0.0014	0.0023	0.00024	J	mg/m³	1	9/6/2016
4-Methyl-2-pentanone	0.012	0.0094	0.00028		mg/m³	1	9/6/2016
Acetone	0.082	0.011	0.00039	*	mg/m³	1	9/6/2016
Benzene	0.0029	0.0015	0.00011		mg/m³	1	9/6/2016
Benzyl chloride	ND	0.0060	0.0024		mg/m³	1	9/6/2016
Bromodichloromethane	ND	0.0031	0.00021		mg/m³	1	9/6/2016
Bromoform	ND	0.012	0.00025		mg/m³	1	9/6/2016
Bromomethane	0.00054	0.0045	0.00021	J	mg/m³	1	9/6/2016
Carbon disulfide	0.00050	0.0014	0.00036	J	mg/m³	1	9/6/2016
Carbon tetrachloride	ND	0.0029	0.00041		mg/m³	1	9/6/2016
Chlorobenzene	ND	0.0021	0.00013		mg/m³	1	9/6/2016
Chloroethane	ND	0.0012	0.0012		mg/m³	1	9/6/2016
Chloroform	0.00022	0.0022	0.00012	J	mg/m³	1	9/6/2016
Chloromethane	ND	0.0024	0.00024		mg/m³	1	9/6/2016
cis-1,2-Dichloroethene	0.0017	0.0018	0.00013	J	mg/m³	1	9/6/2016
cis-1,3-Dichloropropene	ND	0.0021	0.00025		mg/m³	1	9/6/2016
Cyclohexane	0.0025	0.0016	0.00034		mg/m³	1	9/6/2016
Dibromochloromethane	ND	0.0039	0.00032		mg/m³	1	9/6/2016
Dichlorodifluoromethane	0.0023	0.0022	0.000074		mg/m³	1	9/6/2016
Ethyl acetate	ND	0.0041	0.00033		mg/m³	1	9/6/2016
Ethylbenzene	0.0039	0.0020	0.00016		mg/m³	1	9/6/2016
Freon-113	ND	0.0035	0.00013		mg/m³	1	9/6/2016
Freon-114	ND	0.016	0.00046		mg/m³	1	9/6/2016
Heptane	0.0055	0.0019	0.00019		mg/m³	1	9/6/2016
Hexachlorobutadiene	0.00074	0.0049	0.00055	J	mg/m³	1	9/6/2016
Hexane	0.0064	0.0041	0.00011		mg/m³	1	9/6/2016
Isopropyl Alcohol	0.31	0.14	0.011		mg/m³	25	9/7/2016
m,p-Xylene	0.0088	0.0040	0.00029		mg/m³	1	9/6/2016
Methyl tert-butyl ether	0.00025	0.0017	0.00014	J	mg/m³	1	9/6/2016
Methylene chloride	0.00096	0.016	0.00086	J	mg/m³	1	9/6/2016
Naphthalene	0.0028	0.0024	0.00069		mg/m³	1	9/6/2016
o-Xylene	0.0036	0.0020	0.00013		mg/m³	1	9/6/2016
Propene	0.0063	0.0079	0.00079	J	mg/m³	1	9/6/2016

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

Date Reported: September 09, 2016
Date Printed: September 09, 2016

ANALYTICAL RESULTS

CLIENT: Apex Companies, LLC
Work Order: 16081298 Revision 0
Project: PECO-216-78, Bright Cleaners-Franklin Centre, 7249
Lab ID: 16081298-006

Client Sample ID: SV-1
Collection Date: 8/31/2016 12:28:00 PM
Matrix: AIR

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS TO-15				Prep Date: **9/2/2016**			Analyst: **NLM**
Styrene	0.00078	0.0020	0.00021	J	mg/m³	1	9/6/2016
Tetrachloroethene	12	0.078	0.0056		mg/m³	25	9/7/2016
Tetrahydrofuran	0.0084	0.0034	0.00031		mg/m³	1	9/6/2016
Toluene	0.081	0.0017	0.0002		mg/m³	1	9/6/2016
trans-1,2-Dichloroethene	ND	0.0018	0.00013		mg/m³	1	9/6/2016
trans-1,3-Dichloropropene	ND	0.0021	0.00028		mg/m³	1	9/6/2016
Trichloroethene	0.022	0.0025	0.00019		mg/m³	1	9/6/2016
Trichlorofluoromethane	0.0016	0.0026	0.00016	J	mg/m³	1	9/6/2016
Vinyl acetate	ND	0.016	0.00022		mg/m³	1	9/6/2016
Vinyl chloride	ND	0.0012	0.000099		mg/m³	1	9/6/2016
Xylenes, Total	0.012	0.0060	0.00042		mg/m³	1	9/6/2016

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

Date Reported: September 09, 2016
Date Printed: September 09, 2016

ANALYTICAL RESULTS

CLIENT: Apex Companies, LLC
Work Order: 16081298 Revision 0
Project: PECO-216-78, Bright Cleaners-Franklin Centre, 7249
Lab ID: 16081298-007

Client Sample ID: SV-2
Collection Date: 8/31/2016 12:32:00 PM
Matrix: AIR

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS **TO-15**				Prep Date: **9/2/2016**		Analyst: **NLM**	
1,1,1-Trichloroethane	ND	0.37	0.019		ppbv	1	9/6/2016
1,1,2,2-Tetrachloroethane	ND	0.37	0.026		ppbv	1	9/6/2016
1,1,2-Trichloroethane	ND	0.37	0.036		ppbv	1	9/6/2016
1,1-Dichloroethane	ND	0.37	0.018		ppbv	1	9/6/2016
1,1-Dichloroethene	ND	0.37	0.023		ppbv	1	9/6/2016
1,2,4-Trichlorobenzene	0.13	0.37	0.082	J	ppbv	1	9/6/2016
1,2,4-Trimethylbenzene	0.80	0.37	0.034		ppbv	1	9/6/2016
1,2-Dibromoethane	ND	0.37	0.042		ppbv	1	9/6/2016
1,2-Dichlorobenzene	ND	0.37	0.031		ppbv	1	9/6/2016
1,2-Dichloroethane	ND	0.37	0.043		ppbv	1	9/6/2016
1,2-Dichloropropane	ND	0.37	0.025		ppbv	1	9/6/2016
1,3,5-Trimethylbenzene	0.19	0.37	0.026	J	ppbv	1	9/6/2016
1,3-Butadiene	ND	0.37	0.048		ppbv	1	9/6/2016
1,3-Dichlorobenzene	0.19	0.37	0.031	J	ppbv	1	9/6/2016
1,4-Dichlorobenzene	ND	0.37	0.039		ppbv	1	9/6/2016
1,4-Dioxane	0.74	0.93	0.11	J	ppbv	1	9/6/2016
2-Butanone	2.6	0.93	0.085		ppbv	1	9/6/2016
2-Hexanone	0.70	1.9	0.1	J	ppbv	1	9/6/2016
4-Ethyltoluene	0.19	0.37	0.039	J	ppbv	1	9/6/2016
4-Methyl-2-pentanone	1.5	1.9	0.056	J	ppbv	1	9/6/2016
Acetone	61	3.7	0.13	*	ppbv	1	9/6/2016
Benzene	0.45	0.37	0.027		ppbv	1	9/6/2016
Benzyl chloride	ND	0.93	0.37		ppbv	1	9/6/2016
Bromodichloromethane	ND	0.37	0.025		ppbv	1	9/6/2016
Bromoform	ND	0.93	0.02		ppbv	1	9/6/2016
Bromomethane	0.13	0.93	0.043	J	ppbv	1	9/6/2016
Carbon disulfide	ND	0.37	0.093		ppbv	1	9/6/2016
Carbon tetrachloride	ND	0.37	0.052		ppbv	1	9/6/2016
Chlorobenzene	ND	0.37	0.023		ppbv	1	9/6/2016
Chloroethane	ND	0.37	0.37		ppbv	1	9/6/2016
Chloroform	0.074	0.37	0.02	J	ppbv	1	9/6/2016
Chloromethane	ND	0.93	0.092		ppbv	1	9/6/2016
cis-1,2-Dichloroethene	4.5	0.37	0.027		ppbv	1	9/6/2016
cis-1,3-Dichloropropene	ND	0.37	0.044		ppbv	1	9/6/2016
Cyclohexane	0.37	0.37	0.079		ppbv	1	9/6/2016
Dibromochloromethane	ND	0.37	0.03		ppbv	1	9/6/2016
Dichlorodifluoromethane	0.46	0.37	0.012		ppbv	1	9/6/2016
Ethyl acetate	ND	0.93	0.074		ppbv	1	9/6/2016

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

Date Reported: September 09, 2016
Date Printed: September 09, 2016

ANALYTICAL RESULTS

CLIENT: Apex Companies, LLC
Work Order: 16081298 Revision 0
Project: PECO-216-78, Bright Cleaners-Franklin Centre, 7249
Lab ID: 16081298-007

Client Sample ID: SV-2
Collection Date: 8/31/2016 12:32:00 PM
Matrix: AIR

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS	**TO-15**			Prep Date: **9/2/2016**		Analyst: **NLM**	
Ethylbenzene	0.65	0.37	0.029		ppbv	1	9/6/2016
Freon-113	0.074	0.37	0.014	J	ppbv	1	9/6/2016
Freon-114	ND	1.9	0.053		ppbv	1	9/6/2016
Heptane	0.65	0.37	0.037		ppbv	1	9/6/2016
Hexachlorobutadiene	ND	0.37	0.042		ppbv	1	9/6/2016
Hexane	0.76	0.93	0.026	J	ppbv	1	9/6/2016
Isopropyl Alcohol	43	1.9	0.15		ppbv	1	9/6/2016
m,p-Xylene	1.4	0.74	0.055		ppbv	1	9/6/2016
Methyl tert-butyl ether	0.093	0.37	0.03	J	ppbv	1	9/6/2016
Methylene chloride	ND	3.7	0.2		ppbv	1	9/6/2016
Naphthalene	0.33	0.37	0.11	J	ppbv	1	9/6/2016
o-Xylene	0.56	0.37	0.024		ppbv	1	9/6/2016
Propene	2.1	3.7	0.37	J	ppbv	1	9/6/2016
Styrene	0.074	0.37	0.039	J	ppbv	1	9/6/2016
Tetrachloroethene	6500	190	13		ppbv	500	9/7/2016
Tetrahydrofuran	1.4	0.93	0.084		ppbv	1	9/6/2016
Toluene	12	0.37	0.042		ppbv	1	9/6/2016
trans-1,2-Dichloroethene	0.037	0.37	0.025	J	ppbv	1	9/6/2016
trans-1,3-Dichloropropene	ND	0.37	0.05		ppbv	1	9/6/2016
Trichloroethene	7.6	0.37	0.028		ppbv	1	9/6/2016
Trichlorofluoromethane	0.28	0.37	0.023	J	ppbv	1	9/6/2016
Vinyl acetate	ND	3.7	0.05		ppbv	1	9/6/2016
Vinyl chloride	ND	0.37	0.031		ppbv	1	9/6/2016
Xylenes, Total	1.9	1.1	0.078		ppbv	1	9/6/2016
Volatile Organic Compounds in Air by GC/MS	**TO-15**			Prep Date: **9/2/2016**		Analyst: **NLM**	
1,1,1-Trichloroethane	ND	0.0020	0.00011		mg/m³	1	9/6/2016
1,1,2,2-Tetrachloroethane	ND	0.0025	0.00018		mg/m³	1	9/6/2016
1,1,2-Trichloroethane	ND	0.0020	0.0002		mg/m³	1	9/6/2016
1,1-Dichloroethane	ND	0.0015	0.000073		mg/m³	1	9/6/2016
1,1-Dichloroethene	ND	0.0015	0.000093		mg/m³	1	9/6/2016
1,2,4-Trichlorobenzene	0.00096	0.0028	0.00061	J	mg/m³	1	9/6/2016
1,2,4-Trimethylbenzene	0.0039	0.0018	0.00017		mg/m³	1	9/6/2016
1,2-Dibromoethane	ND	0.0029	0.00032		mg/m³	1	9/6/2016
1,2-Dichlorobenzene	ND	0.0022	0.00019		mg/m³	1	9/6/2016
1,2-Dichloroethane	ND	0.0015	0.00017		mg/m³	1	9/6/2016
1,2-Dichloropropane	ND	0.0017	0.00012		mg/m³	1	9/6/2016
1,3,5-Trimethylbenzene	0.00091	0.0018	0.00013	J	mg/m³	1	9/6/2016
1,3-Butadiene	ND	0.00082	0.00011		mg/m³	1	9/6/2016

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

Date Reported: September 09, 2016
Date Printed: September 09, 2016

ANALYTICAL RESULTS

CLIENT: Apex Companies, LLC
Work Order: 16081298 Revision 0
Project: PECO-216-78, Bright Cleaners-Franklin Centre, 7249
Lab ID: 16081298-007

Client Sample ID: SV-2
Collection Date: 8/31/2016 12:32:00 PM
Matrix: AIR

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS TO-15				Prep Date: **9/2/2016**		Analyst: **NLM**	
1,3-Dichlorobenzene	0.0011	0.0022	0.00019	J	mg/m³	1	9/6/2016
1,4-Dichlorobenzene	ND	0.0022	0.00024		mg/m³	1	9/6/2016
1,4-Dioxane	0.0027	0.0033	0.00039	J	mg/m³	1	9/6/2016
2-Butanone	0.0077	0.0027	0.00025		mg/m³	1	9/6/2016
2-Hexanone	0.0029	0.0076	0.00041	J	mg/m³	1	9/6/2016
4-Ethyltoluene	0.00091	0.0018	0.00019	J	mg/m³	1	9/6/2016
4-Methyl-2-pentanone	0.0061	0.0076	0.00023	J	mg/m³	1	9/6/2016
Acetone	0.14	0.0088	0.00031	*	mg/m³	1	9/6/2016
Benzene	0.0014	0.0012	0.000085		mg/m³	1	9/6/2016
Benzyl chloride	ND	0.0048	0.0019		mg/m³	1	9/6/2016
Bromodichloromethane	ND	0.0025	0.00017		mg/m³	1	9/6/2016
Bromoform	ND	0.0096	0.0002		mg/m³	1	9/6/2016
Bromomethane	0.00050	0.0036	0.00017	J	mg/m³	1	9/6/2016
Carbon disulfide	ND	0.0012	0.00029		mg/m³	1	9/6/2016
Carbon tetrachloride	ND	0.0023	0.00033		mg/m³	1	9/6/2016
Chlorobenzene	ND	0.0017	0.00011		mg/m³	1	9/6/2016
Chloroethane	ND	0.00098	0.00098		mg/m³	1	9/6/2016
Chloroform	0.00036	0.0018	0.000099	J	mg/m³	1	9/6/2016
Chloromethane	ND	0.0019	0.00019		mg/m³	1	9/6/2016
cis-1,2-Dichloroethene	0.018	0.0015	0.00011		mg/m³	1	9/6/2016
cis-1,3-Dichloropropene	ND	0.0017	0.0002		mg/m³	1	9/6/2016
Cyclohexane	0.0013	0.0012	0.00027		mg/m³	1	9/6/2016
Dibromochloromethane	ND	0.0032	0.00025		mg/m³	1	9/6/2016
Dichlorodifluoromethane	0.0023	0.0018	0.00006		mg/m³	1	9/6/2016
Ethyl acetate	ND	0.0033	0.00027		mg/m³	1	9/6/2016
Ethylbenzene	0.0028	0.0016	0.00013		mg/m³	1	9/6/2016
Freon-113	0.00057	0.0028	0.00011	J	mg/m³	1	9/6/2016
Freon-114	ND	0.013	0.00037		mg/m³	1	9/6/2016
Heptane	0.0027	0.0015	0.00015		mg/m³	1	9/6/2016
Hexachlorobutadiene	ND	0.0040	0.00045		mg/m³	1	9/6/2016
Hexane	0.0027	0.0033	0.000092	J	mg/m³	1	9/6/2016
Isopropyl Alcohol	0.11	0.0046	0.00036		mg/m³	1	9/6/2016
m,p-Xylene	0.0060	0.0032	0.00024		mg/m³	1	9/6/2016
Methyl tert-butyl ether	0.00033	0.0013	0.00011	J	mg/m³	1	9/6/2016
Methylene chloride	ND	0.013	0.00069		mg/m³	1	9/6/2016
Naphthalene	0.0018	0.0019	0.00056	J	mg/m³	1	9/6/2016
o-Xylene	0.0024	0.0016	0.0001		mg/m³	1	9/6/2016
Propene	0.0036	0.0064	0.00064	J	mg/m³	1	9/6/2016

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

Date Reported: September 09, 2016
Date Printed: September 09, 2016

ANALYTICAL RESULTS

CLIENT: Apex Companies, LLC
Work Order: 16081298 Revision 0
Project: PECO-216-78, Bright Cleaners-Franklin Centre, 7249
Lab ID: 16081298-007

Client Sample ID: SV-2
Collection Date: 8/31/2016 12:32:00 PM
Matrix: AIR

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS TO-15				Prep Date: **9/2/2016**			Analyst: **NLM**
Styrene	0.00032	0.0016	0.00017	J	mg/m³	1	9/6/2016
Tetrachloroethene	44	1.3	0.091		mg/m³	500	9/7/2016
Tetrahydrofuran	0.0041	0.0027	0.00025		mg/m³	1	9/6/2016
Toluene	0.046	0.0014	0.00016		mg/m³	1	9/6/2016
trans-1,2-Dichloroethene	0.00015	0.0015	0.0001	J	mg/m³	1	9/6/2016
trans-1,3-Dichloropropene	ND	0.0017	0.00023		mg/m³	1	9/6/2016
Trichloroethene	0.041	0.0020	0.00015		mg/m³	1	9/6/2016
Trichlorofluoromethane	0.0016	0.0021	0.00013	J	mg/m³	1	9/6/2016
Vinyl acetate	ND	0.013	0.00018		mg/m³	1	9/6/2016
Vinyl chloride	ND	0.00095	0.00008		mg/m³	1	9/6/2016
Xylenes, Total	0.0085	0.0048	0.00034		mg/m³	1	9/6/2016

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

Date Reported: September 09, 2016
Date Printed: September 09, 2016

ANALYTICAL RESULTS

CLIENT: Apex Companies, LLC
Work Order: 16081298 Revision 0
Project: PECO-216-78, Bright Cleaners-Franklin Centre, 7249
Lab ID: 16081298-008

Client Sample ID: SV-3
Collection Date: 8/31/2016 12:34:00 PM
Matrix: AIR

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS **TO-15**				Prep Date: **9/2/2016**		Analyst: **NLM**	
1,1,1-Trichloroethane	ND	0.51	0.027		ppbv	1	9/6/2016
1,1,2,2-Tetrachloroethane	ND	0.51	0.035		ppbv	1	9/6/2016
1,1,2-Trichloroethane	ND	0.51	0.049		ppbv	1	9/6/2016
1,1-Dichloroethane	ND	0.51	0.025		ppbv	1	9/6/2016
1,1-Dichloroethene	ND	0.51	0.032		ppbv	1	9/6/2016
1,2,4-Trichlorobenzene	0.15	0.51	0.11	J	ppbv	1	9/6/2016
1,2,4-Trimethylbenzene	1.5	0.51	0.046		ppbv	1	9/6/2016
1,2-Dibromoethane	ND	0.51	0.057		ppbv	1	9/6/2016
1,2-Dichlorobenzene	ND	0.51	0.042		ppbv	1	9/6/2016
1,2-Dichloroethane	ND	0.51	0.059		ppbv	1	9/6/2016
1,2-Dichloropropane	ND	0.51	0.035		ppbv	1	9/6/2016
1,3,5-Trimethylbenzene	0.41	0.51	0.035	J	ppbv	1	9/6/2016
1,3-Butadiene	ND	0.51	0.065		ppbv	1	9/6/2016
1,3-Dichlorobenzene	0.82	0.51	0.043		ppbv	1	9/6/2016
1,4-Dichlorobenzene	ND	0.51	0.054		ppbv	1	9/6/2016
1,4-Dioxane	0.66	1.3	0.15	J	ppbv	1	9/6/2016
2-Butanone	4.1	1.3	0.12		ppbv	1	9/6/2016
2-Hexanone	1.2	2.6	0.14	J	ppbv	1	9/6/2016
4-Ethyltoluene	0.33	0.51	0.053	J	ppbv	1	9/6/2016
4-Methyl-2-pentanone	2.3	2.6	0.077	J	ppbv	1	9/6/2016
Acetone	44	5.1	0.18	*	ppbv	1	9/6/2016
Benzene	1.1	0.51	0.037		ppbv	1	9/6/2016
Benzyl chloride	ND	1.3	0.51		ppbv	1	9/6/2016
Bromodichloromethane	ND	0.51	0.035		ppbv	1	9/6/2016
Bromoform	ND	1.3	0.027		ppbv	1	9/6/2016
Bromomethane	0.20	1.3	0.06	J	ppbv	1	9/6/2016
Carbon disulfide	0.15	0.51	0.13	J	ppbv	1	9/6/2016
Carbon tetrachloride	ND	0.51	0.071		ppbv	1	9/6/2016
Chlorobenzene	ND	0.51	0.032		ppbv	1	9/6/2016
Chloroethane	ND	0.51	0.51		ppbv	1	9/6/2016
Chloroform	0.13	0.51	0.028	J	ppbv	1	9/6/2016
Chloromethane	ND	1.3	0.13		ppbv	1	9/6/2016
cis-1,2-Dichloroethene	8.1	0.51	0.038		ppbv	1	9/6/2016
cis-1,3-Dichloropropene	ND	0.51	0.06		ppbv	1	9/6/2016
Cyclohexane	1.3	0.51	0.11		ppbv	1	9/6/2016
Dibromochloromethane	ND	0.51	0.041		ppbv	1	9/6/2016
Dichlorodifluoromethane	0.43	0.51	0.017	J	ppbv	1	9/6/2016
Ethyl acetate	ND	1.3	0.1		ppbv	1	9/6/2016

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

Date Reported: September 09, 2016
Date Printed: September 09, 2016

ANALYTICAL RESULTS

CLIENT: Apex Companies, LLC
Work Order: 16081298 Revision 0
Project: PECO-216-78, Bright Cleaners-Franklin Centre, 7249
Lab ID: 16081298-008

Client Sample ID: SV-3
Collection Date: 8/31/2016 12:34:00 PM
Matrix: AIR

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS TO-15				Prep Date: **9/2/2016**		Analyst: **NLM**	
Ethylbenzene	1.4	0.51	0.04		ppbv	1	9/6/2016
Freon-113	0.077	0.51	0.019	J	ppbv	1	9/6/2016
Freon-114	ND	2.6	0.073		ppbv	1	9/6/2016
Heptane	3.1	0.51	0.05		ppbv	1	9/6/2016
Hexachlorobutadiene	ND	0.51	0.058		ppbv	1	9/6/2016
Hexane	3.2	1.3	0.036		ppbv	1	9/6/2016
Isopropyl Alcohol	26	2.6	0.2		ppbv	1	9/6/2016
m,p-Xylene	2.7	1.0	0.075		ppbv	1	9/6/2016
Methyl tert-butyl ether	0.077	0.51	0.042	J	ppbv	1	9/6/2016
Methylene chloride	ND	5.1	0.27		ppbv	1	9/6/2016
Naphthalene	0.79	0.51	0.15		ppbv	1	9/6/2016
o-Xylene	1.1	0.51	0.033		ppbv	1	9/6/2016
Propene	3.2	5.1	0.51	J	ppbv	1	9/6/2016
Styrene	0.13	0.51	0.054	J	ppbv	1	9/6/2016
Tetrachloroethene	280	260	18		ppbv	500	9/7/2016
Tetrahydrofuran	1.9	1.3	0.12		ppbv	1	9/6/2016
Toluene	13	0.51	0.058		ppbv	1	9/6/2016
trans-1,2-Dichloroethene	ND	0.51	0.035		ppbv	1	9/6/2016
trans-1,3-Dichloropropene	ND	0.51	0.069		ppbv	1	9/6/2016
Trichloroethene	4.7	0.51	0.039		ppbv	1	9/6/2016
Trichlorofluoromethane	0.23	0.51	0.032	J	ppbv	1	9/6/2016
Vinyl acetate	ND	5.1	0.069		ppbv	1	9/6/2016
Vinyl chloride	ND	0.51	0.043		ppbv	1	9/6/2016
Xylenes, Total	3.8	1.5	0.11		ppbv	1	9/6/2016
Volatile Organic Compounds in Air by GC/MS TO-15				Prep Date: **9/2/2016**		Analyst: **NLM**	
1,1,1-Trichloroethane	ND	0.0028	0.00015		mg/m³	1	9/6/2016
1,1,2,2-Tetrachloroethane	ND	0.0035	0.00024		mg/m³	1	9/6/2016
1,1,2-Trichloroethane	ND	0.0028	0.00027		mg/m³	1	9/6/2016
1,1-Dichloroethane	ND	0.0021	0.0001		mg/m³	1	9/6/2016
1,1-Dichloroethene	ND	0.0020	0.00013		mg/m³	1	9/6/2016
1,2,4-Trichlorobenzene	0.0011	0.0038	0.00084	J	mg/m³	1	9/6/2016
1,2,4-Trimethylbenzene	0.0075	0.0025	0.00023		mg/m³	1	9/6/2016
1,2-Dibromoethane	ND	0.0039	0.00044		mg/m³	1	9/6/2016
1,2-Dichlorobenzene	ND	0.0031	0.00026		mg/m³	1	9/6/2016
1,2-Dichloroethane	ND	0.0021	0.00024		mg/m³	1	9/6/2016
1,2-Dichloropropane	ND	0.0024	0.00016		mg/m³	1	9/6/2016
1,3,5-Trimethylbenzene	0.0020	0.0025	0.00017	J	mg/m³	1	9/6/2016
1,3-Butadiene	ND	0.0011	0.00014		mg/m³	1	9/6/2016

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

Date Reported: September 09, 2016
Date Printed: September 09, 2016

ANALYTICAL RESULTS

CLIENT: Apex Companies, LLC
Work Order: 16081298 Revision 0
Project: PECO-216-78, Bright Cleaners-Franklin Centre, 7249
Lab ID: 16081298-008

Client Sample ID: SV-3
Collection Date: 8/31/2016 12:34:00 PM
Matrix: AIR

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS **TO-15**				Prep Date: **9/2/2016**		Analyst: **NLM**	
1,3-Dichlorobenzene	0.0049	0.0031	0.00026		mg/m³	1	9/6/2016
1,4-Dichlorobenzene	ND	0.0031	0.00032		mg/m³	1	9/6/2016
1,4-Dioxane	0.0024	0.0046	0.00054	J	mg/m³	1	9/6/2016
2-Butanone	0.012	0.0038	0.00034		mg/m³	1	9/6/2016
2-Hexanone	0.0049	0.010	0.00057	J	mg/m³	1	9/6/2016
4-Ethyltoluene	0.0016	0.0025	0.00026	J	mg/m³	1	9/6/2016
4-Methyl-2-pentanone	0.0094	0.010	0.00031	J	mg/m³	1	9/6/2016
Acetone	0.10	0.012	0.00043	*	mg/m³	1	9/6/2016
Benzene	0.0034	0.0016	0.00012		mg/m³	1	9/6/2016
Benzyl chloride	ND	0.0066	0.0026		mg/m³	1	9/6/2016
Bromodichloromethane	ND	0.0034	0.00023		mg/m³	1	9/6/2016
Bromoform	ND	0.013	0.00028		mg/m³	1	9/6/2016
Bromomethane	0.00079	0.0050	0.00023	J	mg/m³	1	9/6/2016
Carbon disulfide	0.00048	0.0016	0.0004	J	mg/m³	1	9/6/2016
Carbon tetrachloride	ND	0.0032	0.00045		mg/m³	1	9/6/2016
Chlorobenzene	ND	0.0024	0.00015		mg/m³	1	9/6/2016
Chloroethane	ND	0.0013	0.0013		mg/m³	1	9/6/2016
Chloroform	0.00062	0.0025	0.00014	J	mg/m³	1	9/6/2016
Chloromethane	ND	0.0026	0.00026		mg/m³	1	9/6/2016
cis-1,2-Dichloroethene	0.032	0.0020	0.00015		mg/m³	1	9/6/2016
cis-1,3-Dichloropropene	ND	0.0023	0.00027		mg/m³	1	9/6/2016
Cyclohexane	0.0046	0.0018	0.00037		mg/m³	1	9/6/2016
Dibromochloromethane	ND	0.0043	0.00035		mg/m³	1	9/6/2016
Dichlorodifluoromethane	0.0021	0.0025	0.000082	J	mg/m³	1	9/6/2016
Ethyl acetate	ND	0.0046	0.00037		mg/m³	1	9/6/2016
Ethylbenzene	0.0061	0.0022	0.00017		mg/m³	1	9/6/2016
Freon-113	0.00059	0.0039	0.00015	J	mg/m³	1	9/6/2016
Freon-114	ND	0.018	0.00051		mg/m³	1	9/6/2016
Heptane	0.013	0.0021	0.00021		mg/m³	1	9/6/2016
Hexachlorobutadiene	ND	0.0054	0.00061		mg/m³	1	9/6/2016
Hexane	0.011	0.0045	0.00013		mg/m³	1	9/6/2016
Isopropyl Alcohol	0.065	0.0063	0.00049		mg/m³	1	9/6/2016
m,p-Xylene	0.012	0.0044	0.00033		mg/m³	1	9/6/2016
Methyl tert-butyl ether	0.00028	0.0018	0.00015	J	mg/m³	1	9/6/2016
Methylene chloride	ND	0.018	0.00095		mg/m³	1	9/6/2016
Naphthalene	0.0041	0.0027	0.00076		mg/m³	1	9/6/2016
o-Xylene	0.0048	0.0022	0.00014		mg/m³	1	9/6/2016
Propene	0.0055	0.0088	0.00088	J	mg/m³	1	9/6/2016

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

Date Reported: September 09, 2016
Date Printed: September 09, 2016

ANALYTICAL RESULTS

CLIENT: Apex Companies, LLC
Work Order: 16081298 Revision 0
Project: PECO-216-78, Bright Cleaners-Franklin Centre, 7249
Lab ID: 16081298-008

Client Sample ID: SV-3
Collection Date: 8/31/2016 12:34:00 PM
Matrix: AIR

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS TO-15				Prep Date: **9/2/2016**			Analyst: **NLM**
Styrene	0.00054	0.0022	0.00023	J	mg/m³	1	9/6/2016
Tetrachloroethene	1.9	1.7	0.13		mg/m³	500	9/7/2016
Tetrahydrofuran	0.0056	0.0038	0.00034		mg/m³	1	9/6/2016
Toluene	0.047	0.0019	0.00022		mg/m³	1	9/6/2016
trans-1,2-Dichloroethene	ND	0.0020	0.00014		mg/m³	1	9/6/2016
trans-1,3-Dichloropropene	ND	0.0023	0.00032		mg/m³	1	9/6/2016
Trichloroethene	0.026	0.0027	0.00021		mg/m³	1	9/6/2016
Trichlorofluoromethane	0.0013	0.0029	0.00018	J	mg/m³	1	9/6/2016
Vinyl acetate	ND	0.018	0.00024		mg/m³	1	9/6/2016
Vinyl chloride	ND	0.0013	0.00011		mg/m³	1	9/6/2016
Xylenes, Total	0.017	0.0066	0.00046		mg/m³	1	9/6/2016

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 W. Harrison Suite 200, Chicago, Illinois 60612 Phone: (312) 733-0551 Fax: (312) 733-2386
e-mail address: STATinfo@STATAnalysis.com

CHAIN OF CUSTODY RECORD

Nº: 903397 Page : 1 of 1

Company: Apex Companies
Project Number: PECO-2016-78 Client Tracking No.:
Project Name: Bright Cleaners - Franklin Centre
Project Location: 7249 S. 76th St., Franklin, WI
Sampler(s): Joe Becker
Report To: Joe Becker Phone: 847-956-8589
Steve Newlin Fax: snewlin@apexcos.com
QC Level: 1 ___ 2 ___ 3 ___ 4 ___ e-mail: jbecker@apexcos.com

Quote No.:
P.O. No.:
Turn Around Time (Days): 1 2 3 4 (5-7) 10
Results Needed: / / am/pm

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	VOCs - 8260	VOCs - TO-15	Additional Information:	Lab No.:
TW-1 @ 14'	8-31-16	10:00	Soil		X	F	4	X			001
TW-2 @ 11'		10:30				F	4	X			002
TW-3 @ 12'		11:00				F	4	X			003
TW-1		11:15	GW			E	3	X			004
~~TW-2~~						E	3	X			
TW-3		12:40				E	3	X			005
SV-1		12:29	Air			A	1		X	Summa 60319	006
SV-2		12:32				A	1		X	60339	007
SV-3		12:34				A	1		X	60268	008

Relinquished by: (Signature) Date/Time: 8-31-16/16:45
Received by: (Signature) Date/Time: 8/31/16 16:48
Relinquished by: (Signature) Date/Time:
Received by: (Signature) Date/Time:
Relinquished by: (Signature) Date/Time:
Received by: (Signature) Date/Time:

Comments:

Laboratory Work Order No.: 1608298

Received on Ice: Yes [X] No [ ]
Temperature: 4.7 °C

Preservation Code: A = None B = HNO_3 C = NaOH
D = H_2SO_4 E = HCl F = 5035/EnCore G = Other

STAT Analysis Corporation

Sample Receipt Checklist

Client Name APEX | Date and Time Received: 8/31/2016 4:45:00 PM

Work Order Number 16081298 | Received by: JDR

Checklist completed by: Signature 8/31/16 Date | Reviewed by: JDR Initials 9/1/16 Date

Matrix: | Carrier name | Client Delivered

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping 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 4.7 °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: To-cans recieved at ambient temperature.

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

August 25, 2017

Apex Companies, LLC
1701 East Woodfield Rd, Suite 333
Schaumburg, IL 60173
Telephone: (847) 956-8589
Fax: (847) 956-8619

Analytical Report for STAT Work Order: 17080520 Revision 0

RE: PELO-2017-68, Franklin Centre, 7201 S. 76th St., Franklin, WI

Dear Joseph Becker:

STAT Analysis received 6 samples for the referenced project on 8/15/2017 1:30:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements specifed 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,

Craig Chawla
Project Manager

STAT Analysis Corporation

Date: August 25, 2017

Client: Apex Companies, LLC
Project: PELO-2017-68, Franklin Centre, 7201 S. 76th St., Fra
Work Order: 17080520 Revision 0

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
17080520-001A	MW-1 @ 4'		8/11/2017 8:00:00 AM	8/15/2017
17080520-001B	MW-1 @ 4'		8/11/2017 8:00:00 AM	8/15/2017
17080520-002A	MW-2 @ 6'		8/11/2017 10:40:00 AM	8/15/2017
17080520-002B	MW-2 @ 6'		8/11/2017 10:40:00 AM	8/15/2017
17080520-003A	B-1 @ 2'		8/11/2017 9:10:00 AM	8/15/2017
17080520-003B	B-1 @ 2'		8/11/2017 9:10:00 AM	8/15/2017
17080520-004A	SV-4		8/14/2017 12:24:00 PM	8/15/2017
17080520-005A	SV-5		8/14/2017 12:30:00 PM	8/15/2017
17080520-006A	SV-6		8/14/2017 12:35:00 PM	8/15/2017

STAT Analysis Corporation

Date: *August 25, 2017*

CLIENT:	Apex Companies, LLC
Project:	PELO-2017-68, Franklin Centre, 7201 S. 76th St., Franklin,
Work Order:	17080520 Revision 0

CASE NARRATIVE

STAT Analysis Corp is accredited for TO-15 analysis by Oregon Environmental Accredidation Progam (ORELAP, Accreditation Number IL300001).

TO-15 results that are reported in mg/m³ are calculated based on a temperature of 25°C, atmospheric pressure of 760 mm Hg, and the molecular weight of the analyte.

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 25, 2017
Date Printed: August 25, 2017

ANALYTICAL RESULTS

CLIENT: Apex Companies, LLC
Work Order: 17080520 Revision 0
Project: PELO-2017-68, Franklin Centre, 7201 S. 76th St., Fr
Lab ID: 17080520-001

Client Sample ID: MW-1 @ 4'
Collection Date: 8/11/2017 8:00:00 AM
Matrix: SOIL

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		**SW5035/8260B**			Prep Date: **8/16/2017**		Analyst: **RRS**
Acetone	0.075	0.068	0.0021		mg/Kg-dry	1	8/22/2017
Benzene	0.0025	0.0045	0.00018	J	mg/Kg-dry	1	8/22/2017
Bromodichloromethane	ND	0.0045	0.00036		mg/Kg-dry	1	8/22/2017
Bromoform	ND	0.0045	0.00036		mg/Kg-dry	1	8/22/2017
Bromomethane	ND	0.0090	0.00045		mg/Kg-dry	1	8/22/2017
2-Butanone	0.011	0.068	0.0014	J	mg/Kg-dry	1	8/22/2017
Carbon disulfide	ND	0.045	0.00018		mg/Kg-dry	1	8/22/2017
Carbon tetrachloride	ND	0.0045	0.00027		mg/Kg-dry	1	8/22/2017
Chlorobenzene	ND	0.0045	0.00018		mg/Kg-dry	1	8/22/2017
Chloroethane	ND	0.0090	0.00036		mg/Kg-dry	1	8/22/2017
Chloroform	ND	0.0045	0.00018		mg/Kg-dry	1	8/22/2017
Chloromethane	ND	0.0090	0.00027		mg/Kg-dry	1	8/22/2017
Dibromochloromethane	ND	0.0045	0.00036		mg/Kg-dry	1	8/22/2017
1,1-Dichloroethane	ND	0.0045	0.00027		mg/Kg-dry	1	8/22/2017
1,2-Dichloroethane	ND	0.0045	0.00054		mg/Kg-dry	1	8/22/2017
1,1-Dichloroethene	ND	0.0045	0.00027		mg/Kg-dry	1	8/22/2017
cis-1,2-Dichloroethene	ND	0.0045	0.00027		mg/Kg-dry	1	8/22/2017
trans-1,2-Dichloroethene	ND	0.0045	0.00027		mg/Kg-dry	1	8/22/2017
1,2-Dichloropropane	ND	0.0045	0.00036		mg/Kg-dry	1	8/22/2017
cis-1,3-Dichloropropene	ND	0.0018	0.00018		mg/Kg-dry	1	8/22/2017
trans-1,3-Dichloropropene	ND	0.0018	0.00027		mg/Kg-dry	1	8/22/2017
Ethylbenzene	0.0013	0.0045	0.00009	J	mg/Kg-dry	1	8/22/2017
2-Hexanone	ND	0.018	0.00072		mg/Kg-dry	1	8/22/2017
4-Methyl-2-pentanone	ND	0.018	0.00027		mg/Kg-dry	1	8/22/2017
Methylene chloride	0.0015	0.0090	0.00072	J	mg/Kg-dry	1	8/22/2017
Methyl tert-butyl ether	ND	0.0045	0.00018		mg/Kg-dry	1	8/22/2017
Styrene	ND	0.0045	0.00018		mg/Kg-dry	1	8/22/2017
1,1,2,2-Tetrachloroethane	ND	0.0045	0.00018		mg/Kg-dry	1	8/22/2017
Tetrachloroethene	ND	0.0045	0.00027		mg/Kg-dry	1	8/22/2017
Toluene	0.0044	0.0045	0.00018	J	mg/Kg-dry	1	8/22/2017
1,1,1-Trichloroethane	ND	0.0045	0.00018		mg/Kg-dry	1	8/22/2017
1,1,2-Trichloroethane	ND	0.0045	0.00045		mg/Kg-dry	1	8/22/2017
Trichloroethene	ND	0.0045	0.00018		mg/Kg-dry	1	8/22/2017
Vinyl chloride	ND	0.0045	0.00036		mg/Kg-dry	1	8/22/2017
Xylenes, Total	0.0025	0.014	0.00036	J	mg/Kg-dry	1	8/22/2017
Percent Moisture		**D2974**			Prep Date: **8/17/2017**		Analyst: **KKA**
Percent Moisture	15.8	0.2	0.1	*	wt%	1	8/18/2017

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

Date Reported: August 25, 2017
Date Printed: August 25, 2017

ANALYTICAL RESULTS

CLIENT: Apex Companies, LLC
Work Order: 17080520 Revision 0
Project: PELO-2017-68, Franklin Centre, 7201 S. 76th St., Fr
Lab ID: 17080520-002

Client Sample ID: MW-2 @ 6'
Collection Date: 8/11/2017 10:40:00 AM
Matrix: SOIL

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		**SW5035/8260B**		Prep Date: **8/16/2017**			Analyst: **RRS**
Acetone	0.025	0.065	0.002	J	mg/Kg-dry	1	8/22/2017
Benzene	0.0021	0.0043	0.00017	J	mg/Kg-dry	1	8/22/2017
Bromodichloromethane	ND	0.0043	0.00035		mg/Kg-dry	1	8/22/2017
Bromoform	ND	0.0043	0.00035		mg/Kg-dry	1	8/22/2017
Bromomethane	ND	0.0087	0.00043		mg/Kg-dry	1	8/22/2017
2-Butanone	0.0040	0.065	0.0013	J	mg/Kg-dry	1	8/22/2017
Carbon disulfide	ND	0.043	0.00017		mg/Kg-dry	1	8/22/2017
Carbon tetrachloride	ND	0.0043	0.00026		mg/Kg-dry	1	8/22/2017
Chlorobenzene	ND	0.0043	0.00017		mg/Kg-dry	1	8/22/2017
Chloroethane	ND	0.0087	0.00035		mg/Kg-dry	1	8/22/2017
Chloroform	ND	0.0043	0.00017		mg/Kg-dry	1	8/22/2017
Chloromethane	ND	0.0087	0.00026		mg/Kg-dry	1	8/22/2017
Dibromochloromethane	ND	0.0043	0.00035		mg/Kg-dry	1	8/22/2017
1,1-Dichloroethane	ND	0.0043	0.00026		mg/Kg-dry	1	8/22/2017
1,2-Dichloroethane	ND	0.0043	0.00052		mg/Kg-dry	1	8/22/2017
1,1-Dichloroethene	ND	0.0043	0.00026		mg/Kg-dry	1	8/22/2017
cis-1,2-Dichloroethene	ND	0.0043	0.00026		mg/Kg-dry	1	8/22/2017
trans-1,2-Dichloroethene	ND	0.0043	0.00026		mg/Kg-dry	1	8/22/2017
1,2-Dichloropropane	ND	0.0043	0.00035		mg/Kg-dry	1	8/22/2017
cis-1,3-Dichloropropene	ND	0.0017	0.00017		mg/Kg-dry	1	8/22/2017
trans-1,3-Dichloropropene	ND	0.0017	0.00026		mg/Kg-dry	1	8/22/2017
Ethylbenzene	0.00088	0.0043	0.000087	J	mg/Kg-dry	1	8/22/2017
2-Hexanone	ND	0.017	0.00069		mg/Kg-dry	1	8/22/2017
4-Methyl-2-pentanone	ND	0.017	0.00026		mg/Kg-dry	1	8/22/2017
Methylene chloride	ND	0.0087	0.00069		mg/Kg-dry	1	8/22/2017
Methyl tert-butyl ether	ND	0.0043	0.00017		mg/Kg-dry	1	8/22/2017
Styrene	ND	0.0043	0.00017		mg/Kg-dry	1	8/22/2017
1,1,2,2-Tetrachloroethane	ND	0.0043	0.00017		mg/Kg-dry	1	8/22/2017
Tetrachloroethene	ND	0.0043	0.00026		mg/Kg-dry	1	8/22/2017
Toluene	0.0028	0.0043	0.00017	J	mg/Kg-dry	1	8/22/2017
1,1,1-Trichloroethane	ND	0.0043	0.00017		mg/Kg-dry	1	8/22/2017
1,1,2-Trichloroethane	ND	0.0043	0.00043		mg/Kg-dry	1	8/22/2017
Trichloroethene	ND	0.0043	0.00017		mg/Kg-dry	1	8/22/2017
Vinyl chloride	ND	0.0043	0.00035		mg/Kg-dry	1	8/22/2017
Xylenes, Total	0.0012	0.013	0.00035	J	mg/Kg-dry	1	8/22/2017
Percent Moisture		**D2974**		Prep Date: **8/17/2017**			Analyst: **KKA**
Percent Moisture	16.6	0.2	0.1	*	wt%	1	8/18/2017

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

Date Reported: August 25, 2017
Date Printed: August 25, 2017

ANALYTICAL RESULTS

CLIENT: Apex Companies, LLC
Work Order: 17080520 Revision 0
Project: PELO-2017-68, Franklin Centre, 7201 S. 76th St., Fr
Lab ID: 17080520-003

Client Sample ID: B-1 @ 2'
Collection Date: 8/11/2017 9:10:00 AM
Matrix: SOIL

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		**SW5035/8260B**			Prep Date: **8/16/2017**		Analyst: **RRS**
Acetone	0.064	0.056	0.0017		mg/Kg-dry	1	8/22/2017
Benzene	0.0015	0.0037	0.00015	J	mg/Kg-dry	1	8/22/2017
Bromodichloromethane	ND	0.0037	0.0003		mg/Kg-dry	1	8/22/2017
Bromoform	ND	0.0037	0.0003		mg/Kg-dry	1	8/22/2017
Bromomethane	ND	0.0075	0.00037		mg/Kg-dry	1	8/22/2017
2-Butanone	0.0099	0.056	0.0011	J	mg/Kg-dry	1	8/22/2017
Carbon disulfide	ND	0.037	0.00015		mg/Kg-dry	1	8/22/2017
Carbon tetrachloride	ND	0.0037	0.00022		mg/Kg-dry	1	8/22/2017
Chlorobenzene	ND	0.0037	0.00015		mg/Kg-dry	1	8/22/2017
Chloroethane	ND	0.0075	0.0003		mg/Kg-dry	1	8/22/2017
Chloroform	ND	0.0037	0.00015		mg/Kg-dry	1	8/22/2017
Chloromethane	ND	0.0075	0.00022		mg/Kg-dry	1	8/22/2017
Dibromochloromethane	ND	0.0037	0.0003		mg/Kg-dry	1	8/22/2017
1,1-Dichloroethane	ND	0.0037	0.00022		mg/Kg-dry	1	8/22/2017
1,2-Dichloroethane	ND	0.0037	0.00045		mg/Kg-dry	1	8/22/2017
1,1-Dichloroethene	ND	0.0037	0.00022		mg/Kg-dry	1	8/22/2017
cis-1,2-Dichloroethene	ND	0.0037	0.00022		mg/Kg-dry	1	8/22/2017
trans-1,2-Dichloroethene	ND	0.0037	0.00022		mg/Kg-dry	1	8/22/2017
1,2-Dichloropropane	ND	0.0037	0.0003		mg/Kg-dry	1	8/22/2017
cis-1,3-Dichloropropene	ND	0.0015	0.00015		mg/Kg-dry	1	8/22/2017
trans-1,3-Dichloropropene	ND	0.0015	0.00022		mg/Kg-dry	1	8/22/2017
Ethylbenzene	0.0010	0.0037	0.000075	J	mg/Kg-dry	1	8/22/2017
2-Hexanone	ND	0.015	0.0006		mg/Kg-dry	1	8/22/2017
4-Methyl-2-pentanone	ND	0.015	0.00022		mg/Kg-dry	1	8/22/2017
Methylene chloride	ND	0.0075	0.0006		mg/Kg-dry	1	8/22/2017
Methyl tert-butyl ether	ND	0.0037	0.00015		mg/Kg-dry	1	8/22/2017
Styrene	ND	0.0037	0.00015		mg/Kg-dry	1	8/22/2017
1,1,2,2-Tetrachloroethane	ND	0.0037	0.00015		mg/Kg-dry	1	8/22/2017
Tetrachloroethene	0.00067	0.0037	0.00022	J	mg/Kg-dry	1	8/22/2017
Toluene	0.0028	0.0037	0.00015	J	mg/Kg-dry	1	8/22/2017
1,1,1-Trichloroethane	ND	0.0037	0.00015		mg/Kg-dry	1	8/22/2017
1,1,2-Trichloroethane	ND	0.0037	0.00037		mg/Kg-dry	1	8/22/2017
Trichloroethene	0.0010	0.0037	0.00015	J	mg/Kg-dry	1	8/22/2017
Vinyl chloride	ND	0.0037	0.0003		mg/Kg-dry	1	8/22/2017
Xylenes, Total	0.0014	0.011	0.0003	J	mg/Kg-dry	1	8/22/2017
Percent Moisture		**D2974**			Prep Date: **8/17/2017**		Analyst: **KKA**
Percent Moisture	10.2	0.2	0.1	*	wt%	1	8/18/2017

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

Date Reported: August 25, 2017
Date Printed: August 25, 2017

ANALYTICAL RESULTS

CLIENT: Apex Companies, LLC
Work Order: 17080520 Revision 0
Project: PELO-2017-68, Franklin Centre, 7201 S. 76th St., Fr
Lab ID: 17080520-004

Client Sample ID: SV-4
Collection Date: 8/14/2017 12:24:00 PM
Matrix: AIR

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS	**TO-15**			Prep Date: **8/16/2017**		Analyst: **AOA**	
1,1,1-Trichloroethane	ND	0.81	0.039		ppbv	2	8/16/2017
1,1,2,2-Tetrachloroethane	ND	0.81	0.056		ppbv	2	8/16/2017
1,1,2-Trichloroethane	ND	0.81	0.1		ppbv	2	8/16/2017
1,1-Dichloroethane	ND	0.81	0.035		ppbv	2	8/16/2017
1,1-Dichloroethene	ND	0.81	0.051		ppbv	2	8/16/2017
1,2,4-Trichlorobenzene	ND	0.81	0.15		ppbv	2	8/16/2017
1,2,4-Trimethylbenzene	0.081	0.81	0.045	J	ppbv	2	8/16/2017
1,2-Dibromoethane	ND	0.81	0.089		ppbv	2	8/16/2017
1,2-Dichlorobenzene	ND	0.81	0.065		ppbv	2	8/16/2017
1,2-Dichloroethane	ND	0.81	0.094		ppbv	2	8/16/2017
1,2-Dichloropropane	ND	0.81	0.15		ppbv	2	8/16/2017
1,3,5-Trimethylbenzene	ND	0.81	0.056		ppbv	2	8/16/2017
1,3-Butadiene	ND	0.81	0.19		ppbv	2	8/16/2017
1,3-Dichlorobenzene	ND	0.81	0.061		ppbv	2	8/16/2017
1,4-Dichlorobenzene	ND	0.81	0.07		ppbv	2	8/16/2017
1,4-Dioxane	ND	2.0	0.32		ppbv	2	8/16/2017
2-Butanone	0.57	2.0	0.34	J	ppbv	2	8/16/2017
2-Hexanone	ND	4.1	0.52		ppbv	2	8/16/2017
4-Ethyltoluene	ND	0.81	0.085		ppbv	2	8/16/2017
4-Methyl-2-pentanone	ND	4.1	0.28		ppbv	2	8/16/2017
Acetone	6.6	8.1	0.75	J*	ppbv	2	8/16/2017
Benzene	0.081	0.81	0.068	J	ppbv	2	8/16/2017
Benzyl chloride	ND	2.0	0.25		ppbv	2	8/16/2017
Bromodichloromethane	ND	0.81	0.042		ppbv	2	8/16/2017
Bromoform	ND	2.0	0.04		ppbv	2	8/16/2017
Bromomethane	0.12	2.0	0.095	J	ppbv	2	8/16/2017
Carbon disulfide	ND	0.81	0.084		ppbv	2	8/16/2017
Carbon tetrachloride	ND	0.81	0.18		ppbv	2	8/16/2017
Chlorobenzene	ND	0.81	0.2		ppbv	2	8/16/2017
Chloroethane	ND	0.81	0.17		ppbv	2	8/16/2017
Chloroform	ND	0.81	0.045		ppbv	2	8/16/2017
Chloromethane	ND	2.0	0.46		ppbv	2	8/16/2017
cis-1,2-Dichloroethene	ND	0.81	0.16		ppbv	2	8/16/2017
cis-1,3-Dichloropropene	ND	0.81	0.097		ppbv	2	8/16/2017
Cyclohexane	ND	0.81	0.17		ppbv	2	8/16/2017
Dibromochloromethane	ND	0.81	0.051		ppbv	2	8/16/2017
Dichlorodifluoromethane	0.41	0.81	0.05	J	ppbv	2	8/16/2017
Ethyl acetate	ND	2.0	0.29		ppbv	2	8/16/2017

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

Date Reported: August 25, 2017
Date Printed: August 25, 2017

ANALYTICAL RESULTS

CLIENT: Apex Companies, LLC
Work Order: 17080520 Revision 0
Project: PELO-2017-68, Franklin Centre, 7201 S. 76th St., Fr
Lab ID: 17080520-004

Client Sample ID: SV-4
Collection Date: 8/14/2017 12:24:00 PM
Matrix: AIR

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS TO-15				Prep Date: **8/16/2017**			Analyst: **AOA**
Ethylbenzene	ND	0.81	0.059		ppbv	2	8/16/2017
Freon-113	0.041	0.81	0.031	J	ppbv	2	8/16/2017
Freon-114	ND	4.1	0.042		ppbv	2	8/16/2017
Heptane	ND	0.81	0.068		ppbv	2	8/16/2017
Hexachlorobutadiene	ND	0.81	0.085		ppbv	2	8/16/2017
Hexane	ND	2.0	0.14		ppbv	2	8/16/2017
Isopropyl Alcohol	20	4.1	0.31		ppbv	2	8/16/2017
m,p-Xylene	ND	1.6	0.1		ppbv	2	8/16/2017
Methyl tert-butyl ether	ND	0.81	0.046		ppbv	2	8/16/2017
Methylene chloride	1.1	8.1	0.81	J	ppbv	2	8/16/2017
Naphthalene	ND	0.81	0.23		ppbv	2	8/16/2017
o-Xylene	ND	0.81	0.052		ppbv	2	8/16/2017
Propene	0.24	8.1	0.23	J	ppbv	2	8/16/2017
Styrene	ND	0.81	0.19		ppbv	2	8/16/2017
Tetrachloroethene	350	10	0.74		ppbv	25	8/16/2017
Tetrahydrofuran	ND	2.0	0.39		ppbv	2	8/16/2017
Toluene	ND	0.81	0.092		ppbv	2	8/16/2017
trans-1,2-Dichloroethene	ND	0.81	0.056		ppbv	2	8/16/2017
trans-1,3-Dichloropropene	ND	0.81	0.81		ppbv	2	8/16/2017
Trichloroethene	2.2	0.81	0.062		ppbv	2	8/16/2017
Trichlorofluoromethane	0.24	0.81	0.051	J	ppbv	2	8/16/2017
Vinyl acetate	ND	8.1	0.33		ppbv	2	8/16/2017
Vinyl chloride	ND	0.81	0.069		ppbv	2	8/16/2017
Xylenes, Total	ND	2.4	0.15		ppbv	2	8/16/2017
Volatile Organic Compounds in Air by GC/MS TO-15				Prep Date: **8/16/2017**			Analyst: **AOA**
1,1,1-Trichloroethane	ND	0.0044	0.00021		mg/m³	2	8/16/2017
1,1,2,2-Tetrachloroethane	ND	0.0056	0.00038		mg/m³	2	8/16/2017
1,1,2-Trichloroethane	ND	0.0044	0.00056		mg/m³	2	8/16/2017
1,1-Dichloroethane	ND	0.0033	0.00014		mg/m³	2	8/16/2017
1,1-Dichloroethene	ND	0.0032	0.0002		mg/m³	2	8/16/2017
1,2,4-Trichlorobenzene	ND	0.0060	0.0011		mg/m³	2	8/16/2017
1,2,4-Trimethylbenzene	0.00040	0.0040	0.00022	J	mg/m³	2	8/16/2017
1,2-Dibromoethane	ND	0.0063	0.00068		mg/m³	2	8/16/2017
1,2-Dichlorobenzene	ND	0.0049	0.00039		mg/m³	2	8/16/2017
1,2-Dichloroethane	ND	0.0033	0.00038		mg/m³	2	8/16/2017
1,2-Dichloropropane	ND	0.0038	0.0007		mg/m³	2	8/16/2017
1,3,5-Trimethylbenzene	ND	0.0040	0.00028		mg/m³	2	8/16/2017
1,3-Butadiene	ND	0.0018	0.00042		mg/m³	2	8/16/2017

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

Date Reported: August 25, 2017
Date Printed: August 25, 2017

ANALYTICAL RESULTS

CLIENT: Apex Companies, LLC
Work Order: 17080520 Revision 0
Project: PELO-2017-68, Franklin Centre, 7201 S. 76th St., Fr
Lab ID: 17080520-004

Client Sample ID: SV-4
Collection Date: 8/14/2017 12:24:00 PM
Matrix: AIR

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS **TO-15**				Prep Date: **8/16/2017**		Analyst: **AOA**	
1,3-Dichlorobenzene	ND	0.0049	0.00037		mg/m³	2	8/16/2017
1,4-Dichlorobenzene	ND	0.0049	0.00042		mg/m³	2	8/16/2017
1,4-Dioxane	ND	0.0073	0.0012		mg/m³	2	8/16/2017
2-Butanone	0.0017	0.0060	0.00099	J	mg/m³	2	8/16/2017
2-Hexanone	ND	0.017	0.0021		mg/m³	2	8/16/2017
4-Ethyltoluene	ND	0.0040	0.00042		mg/m³	2	8/16/2017
4-Methyl-2-pentanone	ND	0.017	0.0011		mg/m³	2	8/16/2017
Acetone	0.016	0.019	0.0018	J*	mg/m³	2	8/16/2017
Benzene	0.00026	0.0026	0.00022	J	mg/m³	2	8/16/2017
Benzyl chloride	ND	0.011	0.0013		mg/m³	2	8/16/2017
Bromodichloromethane	ND	0.0055	0.00028		mg/m³	2	8/16/2017
Bromoform	ND	0.021	0.00041		mg/m³	2	8/16/2017
Bromomethane	0.00047	0.0079	0.00037	J	mg/m³	2	8/16/2017
Carbon disulfide	ND	0.0025	0.00026		mg/m³	2	8/16/2017
Carbon tetrachloride	ND	0.0051	0.0012		mg/m³	2	8/16/2017
Chlorobenzene	ND	0.0038	0.00094		mg/m³	2	8/16/2017
Chloroethane	ND	0.0021	0.00044		mg/m³	2	8/16/2017
Chloroform	ND	0.0040	0.00022		mg/m³	2	8/16/2017
Chloromethane	ND	0.0042	0.00095		mg/m³	2	8/16/2017
cis-1,2-Dichloroethene	ND	0.0032	0.00063		mg/m³	2	8/16/2017
cis-1,3-Dichloropropene	ND	0.0037	0.00044		mg/m³	2	8/16/2017
Cyclohexane	ND	0.0028	0.0006		mg/m³	2	8/16/2017
Dibromochloromethane	ND	0.0069	0.00043		mg/m³	2	8/16/2017
Dichlorodifluoromethane	0.0020	0.0040	0.00025	J	mg/m³	2	8/16/2017
Ethyl acetate	ND	0.0073	0.001		mg/m³	2	8/16/2017
Ethylbenzene	ND	0.0035	0.00026		mg/m³	2	8/16/2017
Freon-113	0.00031	0.0062	0.00023	J	mg/m³	2	8/16/2017
Freon-114	ND	0.028	0.00029		mg/m³	2	8/16/2017
Heptane	ND	0.0033	0.00028		mg/m³	2	8/16/2017
Hexachlorobutadiene	ND	0.0087	0.0009		mg/m³	2	8/16/2017
Hexane	ND	0.0072	0.0005		mg/m³	2	8/16/2017
Isopropyl Alcohol	0.050	0.010	0.00077		mg/m³	2	8/16/2017
m,p-Xylene	ND	0.0071	0.00044		mg/m³	2	8/16/2017
Methyl tert-butyl ether	ND	0.0029	0.00017		mg/m³	2	8/16/2017
Methylene chloride	0.0040	0.028	0.0028	J	mg/m³	2	8/16/2017
Naphthalene	ND	0.0043	0.0012		mg/m³	2	8/16/2017
o-Xylene	ND	0.0035	0.00023		mg/m³	2	8/16/2017
Propene	0.00042	0.014	0.00039	J	mg/m³	2	8/16/2017

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

Date Reported: August 25, 2017
Date Printed: August 25, 2017

ANALYTICAL RESULTS

CLIENT: Apex Companies, LLC
Work Order: 17080520 Revision 0
Project: PELO-2017-68, Franklin Centre, 7201 S. 76th St., Fr
Lab ID: 17080520-004

Client Sample ID: SV-4
Collection Date: 8/14/2017 12:24:00 PM
Matrix: AIR

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS TO-15				Prep Date: **8/16/2017**		Analyst: **AOA**	
Styrene	ND	0.0035	0.00082		mg/m³	2	8/16/2017
Tetrachloroethene	2.4	0.069	0.005		mg/m³	25	8/16/2017
Tetrahydrofuran	ND	0.0060	0.0011		mg/m³	2	8/16/2017
Toluene	ND	0.0031	0.00035		mg/m³	2	8/16/2017
trans-1,2-Dichloroethene	ND	0.0032	0.00022		mg/m³	2	8/16/2017
trans-1,3-Dichloropropene	ND	0.0037	0.0037		mg/m³	2	8/16/2017
Trichloroethene	0.012	0.0044	0.00033		mg/m³	2	8/16/2017
Trichlorofluoromethane	0.0014	0.0046	0.00029	J	mg/m³	2	8/16/2017
Vinyl acetate	ND	0.029	0.0011		mg/m³	2	8/16/2017
Vinyl chloride	ND	0.0021	0.00018		mg/m³	2	8/16/2017
Xylenes, Total	ND	0.011	0.00065		mg/m³	2	8/16/2017

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

Date Reported: August 25, 2017
Date Printed: August 25, 2017

ANALYTICAL RESULTS

CLIENT: Apex Companies, LLC
Work Order: 17080520 Revision 0
Project: PELO-2017-68, Franklin Centre, 7201 S. 76th St., Fr
Lab ID: 17080520-005

Client Sample ID: SV-5
Collection Date: 8/14/2017 12:30:00 PM
Matrix: AIR

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS TO-15				Prep Date: **8/16/2017**			Analyst: **AOA**
1,1,1-Trichloroethane	0.16	0.81	0.039	J	ppbv	2	8/16/2017
1,1,2,2-Tetrachloroethane	ND	0.81	0.056		ppbv	2	8/16/2017
1,1,2-Trichloroethane	ND	0.81	0.1		ppbv	2	8/16/2017
1,1-Dichloroethane	ND	0.81	0.035		ppbv	2	8/16/2017
1,1-Dichloroethene	ND	0.81	0.051		ppbv	2	8/16/2017
1,2,4-Trichlorobenzene	ND	0.81	0.15		ppbv	2	8/16/2017
1,2,4-Trimethylbenzene	ND	0.81	0.045		ppbv	2	8/16/2017
1,2-Dibromoethane	ND	0.81	0.088		ppbv	2	8/16/2017
1,2-Dichlorobenzene	ND	0.81	0.064		ppbv	2	8/16/2017
1,2-Dichloroethane	ND	0.81	0.094		ppbv	2	8/16/2017
1,2-Dichloropropane	ND	0.81	0.15		ppbv	2	8/16/2017
1,3,5-Trimethylbenzene	ND	0.81	0.056		ppbv	2	8/16/2017
1,3-Butadiene	ND	0.81	0.19		ppbv	2	8/16/2017
1,3-Dichlorobenzene	ND	0.81	0.061		ppbv	2	8/16/2017
1,4-Dichlorobenzene	ND	0.81	0.069		ppbv	2	8/16/2017
1,4-Dioxane	ND	2.0	0.32		ppbv	2	8/16/2017
2-Butanone	ND	2.0	0.33		ppbv	2	8/16/2017
2-Hexanone	ND	4.0	0.51		ppbv	2	8/16/2017
4-Ethyltoluene	ND	0.81	0.084		ppbv	2	8/16/2017
4-Methyl-2-pentanone	ND	4.0	0.27		ppbv	2	8/16/2017
Acetone	5.8	8.1	0.74	J*	ppbv	2	8/16/2017
Benzene	0.081	0.81	0.067	J	ppbv	2	8/16/2017
Benzyl chloride	ND	2.0	0.25		ppbv	2	8/16/2017
Bromodichloromethane	ND	0.81	0.041		ppbv	2	8/16/2017
Bromoform	ND	2.0	0.039		ppbv	2	8/16/2017
Bromomethane	ND	2.0	0.095		ppbv	2	8/16/2017
Carbon disulfide	ND	0.81	0.083		ppbv	2	8/16/2017
Carbon tetrachloride	ND	0.81	0.18		ppbv	2	8/16/2017
Chlorobenzene	ND	0.81	0.2		ppbv	2	8/16/2017
Chloroethane	ND	0.81	0.16		ppbv	2	8/16/2017
Chloroform	ND	0.81	0.044		ppbv	2	8/16/2017
Chloromethane	ND	2.0	0.46		ppbv	2	8/16/2017
cis-1,2-Dichloroethene	ND	0.81	0.16		ppbv	2	8/16/2017
cis-1,3-Dichloropropene	ND	0.81	0.096		ppbv	2	8/16/2017
Cyclohexane	ND	0.81	0.17		ppbv	2	8/16/2017
Dibromochloromethane	ND	0.81	0.05		ppbv	2	8/16/2017
Dichlorodifluoromethane	0.40	0.81	0.05	J	ppbv	2	8/16/2017
Ethyl acetate	ND	2.0	0.29		ppbv	2	8/16/2017

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

Date Reported: August 25, 2017
Date Printed: August 25, 2017

ANALYTICAL RESULTS

CLIENT: Apex Companies, LLC
Work Order: 17080520 Revision 0
Project: PELO-2017-68, Franklin Centre, 7201 S. 76th St., Fr
Lab ID: 17080520-005

Client Sample ID: SV-5
Collection Date: 8/14/2017 12:30:00 PM
Matrix: AIR

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS TO-15				Prep Date: **8/16/2017**			Analyst: **AOA**
Ethylbenzene	ND	0.81	0.059		ppbv	2	8/16/2017
Freon-113	0.081	0.81	0.03	J	ppbv	2	8/16/2017
Freon-114	ND	4.0	0.042		ppbv	2	8/16/2017
Heptane	ND	0.81	0.067		ppbv	2	8/16/2017
Hexachlorobutadiene	ND	0.81	0.084		ppbv	2	8/16/2017
Hexane	ND	2.0	0.14		ppbv	2	8/16/2017
Isopropyl Alcohol	14	4.0	0.31		ppbv	2	8/16/2017
m,p-Xylene	ND	1.6	0.1		ppbv	2	8/16/2017
Methyl tert-butyl ether	ND	0.81	0.046		ppbv	2	8/16/2017
Methylene chloride	1.1	8.1	0.81	J	ppbv	2	8/16/2017
Naphthalene	ND	0.81	0.23		ppbv	2	8/16/2017
o-Xylene	ND	0.81	0.052		ppbv	2	8/16/2017
Propene	ND	8.1	0.22		ppbv	2	8/16/2017
Styrene	ND	0.81	0.19		ppbv	2	8/16/2017
Tetrachloroethene	76	0.81	0.059		ppbv	2	8/16/2017
Tetrahydrofuran	ND	2.0	0.38		ppbv	2	8/16/2017
Toluene	ND	0.81	0.091		ppbv	2	8/16/2017
trans-1,2-Dichloroethene	ND	0.81	0.056		ppbv	2	8/16/2017
trans-1,3-Dichloropropene	ND	0.81	0.81		ppbv	2	8/16/2017
Trichloroethene	4.8	0.81	0.062		ppbv	2	8/16/2017
Trichlorofluoromethane	0.32	0.81	0.051	J	ppbv	2	8/16/2017
Vinyl acetate	ND	8.1	0.32		ppbv	2	8/16/2017
Vinyl chloride	ND	0.81	0.068		ppbv	2	8/16/2017
Xylenes, Total	ND	2.4	0.15		ppbv	2	8/16/2017
Volatile Organic Compounds in Air by GC/MS TO-15				Prep Date: **8/16/2017**			Analyst: **AOA**
1,1,1-Trichloroethane	0.00088	0.0044	0.00021	J	mg/m³	2	8/16/2017
1,1,2,2-Tetrachloroethane	ND	0.0056	0.00038		mg/m³	2	8/16/2017
1,1,2-Trichloroethane	ND	0.0044	0.00056		mg/m³	2	8/16/2017
1,1-Dichloroethane	ND	0.0033	0.00014		mg/m³	2	8/16/2017
1,1-Dichloroethene	ND	0.0032	0.0002		mg/m³	2	8/16/2017
1,2,4-Trichlorobenzene	ND	0.0060	0.0011		mg/m³	2	8/16/2017
1,2,4-Trimethylbenzene	ND	0.0040	0.00022		mg/m³	2	8/16/2017
1,2-Dibromoethane	ND	0.0062	0.00068		mg/m³	2	8/16/2017
1,2-Dichlorobenzene	ND	0.0049	0.00039		mg/m³	2	8/16/2017
1,2-Dichloroethane	ND	0.0033	0.00038		mg/m³	2	8/16/2017
1,2-Dichloropropane	ND	0.0037	0.00069		mg/m³	2	8/16/2017
1,3,5-Trimethylbenzene	ND	0.0040	0.00027		mg/m³	2	8/16/2017
1,3-Butadiene	ND	0.0018	0.00042		mg/m³	2	8/16/2017

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

Date Reported: August 25, 2017
Date Printed: August 25, 2017

ANALYTICAL RESULTS

CLIENT: Apex Companies, LLC
Work Order: 17080520 Revision 0
Project: PELO-2017-68, Franklin Centre, 7201 S. 76th St., Fr
Lab ID: 17080520-005

Client Sample ID: SV-5
Collection Date: 8/14/2017 12:30:00 PM
Matrix: AIR

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS	**TO-15**			Prep Date: **8/16/2017**		Analyst: **AOA**	
1,3-Dichlorobenzene	ND	0.0049	0.00036		mg/m³	2	8/16/2017
1,4-Dichlorobenzene	ND	0.0049	0.00042		mg/m³	2	8/16/2017
1,4-Dioxane	ND	0.0073	0.0012		mg/m³	2	8/16/2017
2-Butanone	ND	0.0060	0.00099		mg/m³	2	8/16/2017
2-Hexanone	ND	0.017	0.0021		mg/m³	2	8/16/2017
4-Ethyltoluene	ND	0.0040	0.00041		mg/m³	2	8/16/2017
4-Methyl-2-pentanone	ND	0.017	0.0011		mg/m³	2	8/16/2017
Acetone	0.014	0.019	0.0018	J*	mg/m³	2	8/16/2017
Benzene	0.00026	0.0026	0.00022	J	mg/m³	2	8/16/2017
Benzyl chloride	ND	0.010	0.0013		mg/m³	2	8/16/2017
Bromodichloromethane	ND	0.0054	0.00028		mg/m³	2	8/16/2017
Bromoform	ND	0.021	0.00041		mg/m³	2	8/16/2017
Bromomethane	ND	0.0079	0.00037		mg/m³	2	8/16/2017
Carbon disulfide	ND	0.0025	0.00026		mg/m³	2	8/16/2017
Carbon tetrachloride	ND	0.0051	0.0011		mg/m³	2	8/16/2017
Chlorobenzene	ND	0.0037	0.00093		mg/m³	2	8/16/2017
Chloroethane	ND	0.0021	0.00043		mg/m³	2	8/16/2017
Chloroform	ND	0.0039	0.00022		mg/m³	2	8/16/2017
Chloromethane	ND	0.0042	0.00095		mg/m³	2	8/16/2017
cis-1,2-Dichloroethene	ND	0.0032	0.00062		mg/m³	2	8/16/2017
cis-1,3-Dichloropropene	ND	0.0037	0.00044		mg/m³	2	8/16/2017
Cyclohexane	ND	0.0028	0.00059		mg/m³	2	8/16/2017
Dibromochloromethane	ND	0.0069	0.00043		mg/m³	2	8/16/2017
Dichlorodifluoromethane	0.0020	0.0040	0.00025	J	mg/m³	2	8/16/2017
Ethyl acetate	ND	0.0073	0.001		mg/m³	2	8/16/2017
Ethylbenzene	ND	0.0035	0.00026		mg/m³	2	8/16/2017
Freon-113	0.00062	0.0062	0.00023	J	mg/m³	2	8/16/2017
Freon-114	ND	0.028	0.00029		mg/m³	2	8/16/2017
Heptane	ND	0.0033	0.00028		mg/m³	2	8/16/2017
Hexachlorobutadiene	ND	0.0086	0.0009		mg/m³	2	8/16/2017
Hexane	ND	0.0071	0.0005		mg/m³	2	8/16/2017
Isopropyl Alcohol	0.036	0.0099	0.00077		mg/m³	2	8/16/2017
m,p-Xylene	ND	0.0070	0.00044		mg/m³	2	8/16/2017
Methyl tert-butyl ether	ND	0.0029	0.00017		mg/m³	2	8/16/2017
Methylene chloride	0.0038	0.028	0.0028	J	mg/m³	2	8/16/2017
Naphthalene	ND	0.0042	0.0012		mg/m³	2	8/16/2017
o-Xylene	ND	0.0035	0.00022		mg/m³	2	8/16/2017
Propene	ND	0.014	0.00039		mg/m³	2	8/16/2017

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

Date Reported: August 25, 2017
Date Printed: August 25, 2017

ANALYTICAL RESULTS

CLIENT: Apex Companies, LLC
Work Order: 17080520 Revision 0
Project: PELO-2017-68, Franklin Centre, 7201 S. 76th St., Fr
Lab ID: 17080520-005

Client Sample ID: SV-5
Collection Date: 8/14/2017 12:30:00 PM
Matrix: AIR

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS TO-15				Prep Date: **8/16/2017**		Analyst: **AOA**	
Styrene	ND	0.0034	0.00081		mg/m³	2	8/16/2017
Tetrachloroethene	0.52	0.0055	0.0004		mg/m³	2	8/16/2017
Tetrahydrofuran	ND	0.0060	0.0011		mg/m³	2	8/16/2017
Toluene	ND	0.0030	0.00034		mg/m³	2	8/16/2017
trans-1,2-Dichloroethene	ND	0.0032	0.00022		mg/m³	2	8/16/2017
trans-1,3-Dichloropropene	ND	0.0037	0.0037		mg/m³	2	8/16/2017
Trichloroethene	0.026	0.0043	0.00033		mg/m³	2	8/16/2017
Trichlorofluoromethane	0.0018	0.0045	0.00029	J	mg/m³	2	8/16/2017
Vinyl acetate	ND	0.028	0.0011		mg/m³	2	8/16/2017
Vinyl chloride	ND	0.0021	0.00017		mg/m³	2	8/16/2017
Xylenes, Total	ND	0.011	0.00065		mg/m³	2	8/16/2017

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

Date Reported: August 25, 2017
Date Printed: August 25, 2017

ANALYTICAL RESULTS

CLIENT: Apex Companies, LLC
Work Order: 17080520 Revision 0
Project: PELO-2017-68, Franklin Centre, 7201 S. 76th St., Fr
Lab ID: 17080520-006

Client Sample ID: SV-6
Collection Date: 8/14/2017 12:35:00 PM
Matrix: AIR

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS	**TO-15**			Prep Date: **8/16/2017**		Analyst: **AOA**	
1,1,1-Trichloroethane	ND	0.37	0.018		ppbv	1	8/16/2017
1,1,2,2-Tetrachloroethane	ND	0.37	0.026		ppbv	1	8/16/2017
1,1,2-Trichloroethane	ND	0.37	0.048		ppbv	1	8/16/2017
1,1-Dichloroethane	ND	0.37	0.016		ppbv	1	8/16/2017
1,1-Dichloroethene	ND	0.37	0.024		ppbv	1	8/16/2017
1,2,4-Trichlorobenzene	ND	0.37	0.071		ppbv	1	8/16/2017
1,2,4-Trimethylbenzene	0.075	0.37	0.021	J	ppbv	1	8/16/2017
1,2-Dibromoethane	ND	0.37	0.041		ppbv	1	8/16/2017
1,2-Dichlorobenzene	ND	0.37	0.03		ppbv	1	8/16/2017
1,2-Dichloroethane	ND	0.37	0.043		ppbv	1	8/16/2017
1,2-Dichloropropane	ND	0.37	0.069		ppbv	1	8/16/2017
1,3,5-Trimethylbenzene	ND	0.37	0.026		ppbv	1	8/16/2017
1,3-Butadiene	ND	0.37	0.088		ppbv	1	8/16/2017
1,3-Dichlorobenzene	ND	0.37	0.028		ppbv	1	8/16/2017
1,4-Dichlorobenzene	ND	0.37	0.032		ppbv	1	8/16/2017
1,4-Dioxane	ND	0.94	0.15		ppbv	1	8/16/2017
2-Butanone	0.24	0.94	0.16	J	ppbv	1	8/16/2017
2-Hexanone	ND	1.9	0.24		ppbv	1	8/16/2017
4-Ethyltoluene	ND	0.37	0.039		ppbv	1	8/16/2017
4-Methyl-2-pentanone	ND	1.9	0.13		ppbv	1	8/16/2017
Acetone	2.2	3.7	0.34	J*	ppbv	1	8/16/2017
Benzene	0.037	0.37	0.031	J	ppbv	1	8/16/2017
Benzyl chloride	ND	0.94	0.11		ppbv	1	8/16/2017
Bromodichloromethane	ND	0.37	0.019		ppbv	1	8/16/2017
Bromoform	ND	0.94	0.018		ppbv	1	8/16/2017
Bromomethane	0.056	0.94	0.044	J	ppbv	1	8/16/2017
Carbon disulfide	ND	0.37	0.038		ppbv	1	8/16/2017
Carbon tetrachloride	ND	0.37	0.084		ppbv	1	8/16/2017
Chlorobenzene	ND	0.37	0.094		ppbv	1	8/16/2017
Chloroethane	ND	0.37	0.076		ppbv	1	8/16/2017
Chloroform	0.075	0.37	0.021	J	ppbv	1	8/16/2017
Chloromethane	ND	0.94	0.21		ppbv	1	8/16/2017
cis-1,2-Dichloroethene	ND	0.37	0.073		ppbv	1	8/16/2017
cis-1,3-Dichloropropene	ND	0.37	0.045		ppbv	1	8/16/2017
Cyclohexane	ND	0.37	0.08		ppbv	1	8/16/2017
Dibromochloromethane	ND	0.37	0.023		ppbv	1	8/16/2017
Dichlorodifluoromethane	0.45	0.37	0.023		ppbv	1	8/16/2017
Ethyl acetate	ND	0.94	0.13		ppbv	1	8/16/2017

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

Date Reported: August 25, 2017
Date Printed: August 25, 2017

ANALYTICAL RESULTS

CLIENT: Apex Companies, LLC
Work Order: 17080520 Revision 0
Project: PELO-2017-68, Franklin Centre, 7201 S. 76th St., Fr
Lab ID: 17080520-006

Client Sample ID: SV-6
Collection Date: 8/14/2017 12:35:00 PM
Matrix: AIR

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS TO-15				Prep Date: **8/16/2017**		Analyst: **AOA**	
Ethylbenzene	ND	0.37	0.027		ppbv	1	8/16/2017
Freon-113	0.075	0.37	0.014	J	ppbv	1	8/16/2017
Freon-114	ND	1.9	0.019		ppbv	1	8/16/2017
Heptane	ND	0.37	0.031		ppbv	1	8/16/2017
Hexachlorobutadiene	ND	0.37	0.039		ppbv	1	8/16/2017
Hexane	ND	0.94	0.066		ppbv	1	8/16/2017
Isopropyl Alcohol	0.26	1.9	0.14	J	ppbv	1	8/16/2017
m,p-Xylene	0.056	0.75	0.047	J	ppbv	1	8/16/2017
Methyl tert-butyl ether	ND	0.37	0.021		ppbv	1	8/16/2017
Methylene chloride	0.56	3.7	0.37	J	ppbv	1	8/16/2017
Naphthalene	0.11	0.37	0.11	J	ppbv	1	8/16/2017
o-Xylene	0.037	0.37	0.024	J	ppbv	1	8/16/2017
Propene	0.13	3.7	0.1	J	ppbv	1	8/16/2017
Styrene	ND	0.37	0.088		ppbv	1	8/16/2017
Tetrachloroethene	3.8	0.37	0.027		ppbv	1	8/16/2017
Tetrahydrofuran	ND	0.94	0.18		ppbv	1	8/16/2017
Toluene	ND	0.37	0.042		ppbv	1	8/16/2017
trans-1,2-Dichloroethene	ND	0.37	0.026		ppbv	1	8/16/2017
trans-1,3-Dichloropropene	ND	0.37	0.37		ppbv	1	8/16/2017
Trichloroethene	ND	0.37	0.029		ppbv	1	8/16/2017
Trichlorofluoromethane	0.24	0.37	0.024	J	ppbv	1	8/16/2017
Vinyl acetate	ND	3.7	0.15		ppbv	1	8/16/2017
Vinyl chloride	ND	0.37	0.032		ppbv	1	8/16/2017
Xylenes, Total	0.094	1.1	0.069	J	ppbv	1	8/16/2017
Volatile Organic Compounds in Air by GC/MS TO-15				Prep Date: **8/16/2017**		Analyst: **AOA**	
1,1,1-Trichloroethane	ND	0.0020	0.000098		mg/m³	1	8/16/2017
1,1,2,2-Tetrachloroethane	ND	0.0026	0.00018		mg/m³	1	8/16/2017
1,1,2-Trichloroethane	ND	0.0020	0.00026		mg/m³	1	8/16/2017
1,1-Dichloroethane	ND	0.0015	0.000066		mg/m³	1	8/16/2017
1,1-Dichloroethene	ND	0.0015	0.000094		mg/m³	1	8/16/2017
1,2,4-Trichlorobenzene	ND	0.0028	0.00053		mg/m³	1	8/16/2017
1,2,4-Trimethylbenzene	0.00037	0.0018	0.0001	J	mg/m³	1	8/16/2017
1,2-Dibromoethane	ND	0.0029	0.00031		mg/m³	1	8/16/2017
1,2-Dichlorobenzene	ND	0.0023	0.00018		mg/m³	1	8/16/2017
1,2-Dichloroethane	ND	0.0015	0.00018		mg/m³	1	8/16/2017
1,2-Dichloropropane	ND	0.0017	0.00032		mg/m³	1	8/16/2017
1,3,5-Trimethylbenzene	ND	0.0018	0.00013		mg/m³	1	8/16/2017
1,3-Butadiene	ND	0.00083	0.00019		mg/m³	1	8/16/2017

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

Date Reported: August 25, 2017
Date Printed: August 25, 2017

ANALYTICAL RESULTS

CLIENT: Apex Companies, LLC
Work Order: 17080520 Revision 0
Project: PELO-2017-68, Franklin Centre, 7201 S. 76th St., Fr
Lab ID: 17080520-006

Client Sample ID: SV-6
Collection Date: 8/14/2017 12:35:00 PM
Matrix: AIR

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS	**TO-15**			Prep Date: **8/16/2017**		Analyst: **AOA**	
1,3-Dichlorobenzene	ND	0.0023	0.00017		mg/m³	1	8/16/2017
1,4-Dichlorobenzene	ND	0.0023	0.00019		mg/m³	1	8/16/2017
1,4-Dioxane	ND	0.0034	0.00054		mg/m³	1	8/16/2017
2-Butanone	0.00072	0.0028	0.00046	J	mg/m³	1	8/16/2017
2-Hexanone	ND	0.0077	0.00097		mg/m³	1	8/16/2017
4-Ethyltoluene	ND	0.0018	0.00019		mg/m³	1	8/16/2017
4-Methyl-2-pentanone	ND	0.0077	0.00052		mg/m³	1	8/16/2017
Acetone	0.0053	0.0089	0.00082	J*	mg/m³	1	8/16/2017
Benzene	0.00012	0.0012	0.0001	J	mg/m³	1	8/16/2017
Benzyl chloride	ND	0.0048	0.00059		mg/m³	1	8/16/2017
Bromodichloromethane	ND	0.0025	0.00013		mg/m³	1	8/16/2017
Bromoform	ND	0.0097	0.00019		mg/m³	1	8/16/2017
Bromomethane	0.00022	0.0036	0.00017	J	mg/m³	1	8/16/2017
Carbon disulfide	ND	0.0012	0.00012		mg/m³	1	8/16/2017
Carbon tetrachloride	ND	0.0024	0.00053		mg/m³	1	8/16/2017
Chlorobenzene	ND	0.0017	0.00043		mg/m³	1	8/16/2017
Chloroethane	ND	0.00099	0.0002		mg/m³	1	8/16/2017
Chloroform	0.00037	0.0018	0.0001	J	mg/m³	1	8/16/2017
Chloromethane	ND	0.0019	0.00044		mg/m³	1	8/16/2017
cis-1,2-Dichloroethene	ND	0.0015	0.00029		mg/m³	1	8/16/2017
cis-1,3-Dichloropropene	ND	0.0017	0.0002		mg/m³	1	8/16/2017
Cyclohexane	ND	0.0013	0.00027		mg/m³	1	8/16/2017
Dibromochloromethane	ND	0.0032	0.0002		mg/m³	1	8/16/2017
Dichlorodifluoromethane	0.0022	0.0019	0.00011		mg/m³	1	8/16/2017
Ethyl acetate	ND	0.0034	0.00048		mg/m³	1	8/16/2017
Ethylbenzene	ND	0.0016	0.00012		mg/m³	1	8/16/2017
Freon-113	0.00057	0.0029	0.00011	J	mg/m³	1	8/16/2017
Freon-114	ND	0.013	0.00013		mg/m³	1	8/16/2017
Heptane	ND	0.0015	0.00013		mg/m³	1	8/16/2017
Hexachlorobutadiene	ND	0.0040	0.00041		mg/m³	1	8/16/2017
Hexane	ND	0.0033	0.00023		mg/m³	1	8/16/2017
Isopropyl Alcohol	0.00064	0.0046	0.00036	J	mg/m³	1	8/16/2017
m,p-Xylene	0.00024	0.0033	0.0002	J	mg/m³	1	8/16/2017
Methyl tert-butyl ether	ND	0.0014	0.000076		mg/m³	1	8/16/2017
Methylene chloride	0.0020	0.013	0.0013	J	mg/m³	1	8/16/2017
Naphthalene	0.00059	0.0020	0.00056	J	mg/m³	1	8/16/2017
o-Xylene	0.00016	0.0016	0.0001	J	mg/m³	1	8/16/2017
Propene	0.00023	0.0064	0.00018	J	mg/m³	1	8/16/2017

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

Date Reported: August 25, 2017
Date Printed: August 25, 2017

ANALYTICAL RESULTS

CLIENT: Apex Companies, LLC
Work Order: 17080520 Revision 0
Project: PELO-2017-68, Franklin Centre, 7201 S. 76th St., Fr
Lab ID: 17080520-006

Client Sample ID: SV-6
Collection Date: 8/14/2017 12:35:00 PM
Matrix: AIR

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS TO-15				Prep Date: **8/16/2017**		Analyst: **AOA**	
Styrene	ND	0.0016	0.00038		mg/m³	1	8/16/2017
Tetrachloroethene	0.026	0.0025	0.00018		mg/m³	1	8/16/2017
Tetrahydrofuran	ND	0.0028	0.00052		mg/m³	1	8/16/2017
Toluene	ND	0.0014	0.00016		mg/m³	1	8/16/2017
trans-1,2-Dichloroethene	ND	0.0015	0.0001		mg/m³	1	8/16/2017
trans-1,3-Dichloropropene	ND	0.0017	0.0017		mg/m³	1	8/16/2017
Trichloroethene	ND	0.0020	0.00015		mg/m³	1	8/16/2017
Trichlorofluoromethane	0.0014	0.0021	0.00013	J	mg/m³	1	8/16/2017
Vinyl acetate	ND	0.013	0.00053		mg/m³	1	8/16/2017
Vinyl chloride	ND	0.00096	0.000081		mg/m³	1	8/16/2017
Xylenes, Total	0.00041	0.0049	0.0003	J	mg/m³	1	8/16/2017

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 W. Harrison Suite 200, Chicago, Illinois 60612 Phone: (312) 733-0551 Fax: (312) 733-2386
e-mail address: STATinfo@STATAnalysis.com

CHAIN OF CUSTODY RECORD

Nº: 907377 **Page : 1 of 1**

Company: Apex Companies
Project Number: PELO_2017-68 Client Tracking No.:
Project Name: Franklin Centre
Project Location: 7201 S. 76th St., Franklin, WI
Sampler(s): Joe Becker
Report To: Joe Becker Phone: 847-452-9782
Steve Newlin Fax:
jbecker@apexcos.com
e-mail: snewlin@apexcos.com
QC Level: 1 ___ 2 ___ 3 ___ 4 ___

Quote No.:
P.O. No.:
Turn Around Time (Days): 1 2 3 4 (5-7) 10
Results Needed: / / am/pm

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	VOCs	Additional Information:	Lab No.:
MW-1@4'	8.11.17	8:00	Soil		X	F	4	X		001
MW-2@6'	↓	10:40	↓		X	↓	↓	X		002
B-1@2'	↓	9:10	↓		X	↓	↓	X		003
SV-4	12:24	8.11.17	Air		X	A	1	X		004
SV-5	12:30	↓	↓		X	↓	↓	X		005
SV-6	12:35	↓	↓		X	↓	↓	X		006

Relinquished by: (Signature)	Date/Time: 8.15.17 13:30	Comments:
Received by: (Signature) Martin Flynn	Date/Time: 8/15/17 13:30	
Relinquished by: (Signature)	Date/Time:	
Received by: (Signature)	Date/Time:	
Relinquished by: (Signature)	Date/Time:	
Received by: (Signature)	Date/Time:	

Laboratory Work Order No.: 17080520

Received on Ice: Yes [X] No [ ]

Temperature: 3.3 °C

Preservation Code: A = None B = HNO_3 C = NaOH D = H_2SO_4 E = HCl F = 5035/EnCore G = Other

STAT Analysis Corporation

Sample Receipt Checklist

Client Name APEX | Date and Time Received: 8/15/2017 1:30:00 PM

Work Order Number 17080520 | Received by: MGK

Checklist completed by: [signature] 8/15/17 (Signature / Date) | Reviewed by: MK 8/15/17 (Initials / Date)

Matrix: | Carrier name Client Delivered

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shippping 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	3.3 °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: * TO canisters were received in ambient conditions.

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

August 23, 2017

Apex Companies, LLC
1701 East Woodfield Rd, Suite 333
Schaumburg, IL 60173
Telephone: (847) 956-8589
Fax: (847) 956-8619

Analytical Report for STAT Work Order: 17080612 Revision 0

RE: PECO-2017-68, Franklin Centre, 7201 S. 76th St., Franklin, WI

Dear Joseph Becker:

STAT Analysis received 5 samples for the referenced project on 8/17/2017 4:55:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements specifed 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,

Martin Kucan

Martin Kucan
Project Manager

STAT Analysis Corporation

Date: August 23, 2017

Client: Apex Companies, LLC
Project: PECO-2017-68, Franklin Centre, 7201 S. 76th St., Frar
Work Order: 17080612 Revision 0

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
17080612-001A	MW-1		8/17/2017 12:05:00 PM	8/17/2017
17080612-002A	MW-2		8/17/2017 11:20:00 AM	8/17/2017
17080612-003A	MW-3		8/17/2017 10:35:00 AM	8/17/2017
17080612-004A	Duplicate		8/17/2017	8/17/2017
17080612-005A	Trip Blank			8/17/2017

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 23, 2017
Date Printed: August 23, 2017

ANALYTICAL RESULTS

CLIENT: Apex Companies, LLC
Work Order: 17080612 Revision 0
Project: PECO-2017-68, Franklin Centre, 7201 S. 76th St., Fra
Lab ID: 17080612-001

Client Sample ID: MW-1
Collection Date 8/17/2017 12:05:00 PM
Matrix: AQUEOUS

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		**SW8260B (SW5030B)**		Prep Date:			Analyst: **ART**
Acetone	ND	0.020	0.0031		mg/L	1	8/22/2017
Benzene	ND	0.0050	0.0002		mg/L	1	8/22/2017
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	8/22/2017
Bromoform	ND	0.0050	0.0003		mg/L	1	8/22/2017
Bromomethane	ND	0.010	0.002		mg/L	1	8/22/2017
2-Butanone	ND	0.020	0.0016		mg/L	1	8/22/2017
Carbon disulfide	ND	0.010	0.0003		mg/L	1	8/22/2017
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	8/22/2017
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	8/22/2017
Chloroethane	ND	0.010	0.0005		mg/L	1	8/22/2017
Chloroform	ND	0.0050	0.0001		mg/L	1	8/22/2017
Chloromethane	ND	0.010	0.0003		mg/L	1	8/22/2017
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	8/22/2017
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	8/22/2017
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	8/22/2017
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	8/22/2017
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	8/22/2017
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	8/22/2017
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	8/22/2017
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	8/22/2017
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	8/22/2017
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	8/22/2017
2-Hexanone	ND	0.020	0.0002		mg/L	1	8/22/2017
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	8/22/2017
Methylene chloride	ND	0.0050	0.0002		mg/L	1	8/22/2017
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	8/22/2017
Styrene	ND	0.0050	0.0003		mg/L	1	8/22/2017
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	8/22/2017
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	8/22/2017
Toluene	ND	0.0050	0.0004		mg/L	1	8/22/2017
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	8/22/2017
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	8/22/2017
Trichloroethene	ND	0.0050	0.0003		mg/L	1	8/22/2017
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	8/22/2017
Xylenes, Total	ND	0.015	0.001		mg/L	1	8/22/2017

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

Date Reported: August 23, 2017
Date Printed: August 23, 2017

ANALYTICAL RESULTS

CLIENT: Apex Companies, LLC
Work Order: 17080612 Revision 0
Project: PECO-2017-68, Franklin Centre, 7201 S. 76th St., Fra
Lab ID: 17080612-002

Client Sample ID: MW-2
Collection Date 8/17/2017 11:20:00 AM
Matrix: AQUEOUS

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		**SW8260B (SW5030B)**		Prep Date:			Analyst: **ART**
Acetone	ND	0.020	0.0031		mg/L	1	8/22/2017
Benzene	ND	0.0050	0.0002		mg/L	1	8/22/2017
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	8/22/2017
Bromoform	ND	0.0050	0.0003		mg/L	1	8/22/2017
Bromomethane	ND	0.010	0.002		mg/L	1	8/22/2017
2-Butanone	ND	0.020	0.0016		mg/L	1	8/22/2017
Carbon disulfide	ND	0.010	0.0003		mg/L	1	8/22/2017
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	8/22/2017
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	8/22/2017
Chloroethane	ND	0.010	0.0005		mg/L	1	8/22/2017
Chloroform	ND	0.0050	0.0001		mg/L	1	8/22/2017
Chloromethane	ND	0.010	0.0003		mg/L	1	8/22/2017
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	8/22/2017
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	8/22/2017
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	8/22/2017
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	8/22/2017
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	8/22/2017
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	8/22/2017
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	8/22/2017
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	8/22/2017
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	8/22/2017
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	8/22/2017
2-Hexanone	ND	0.020	0.0002		mg/L	1	8/22/2017
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	8/22/2017
Methylene chloride	ND	0.0050	0.0002		mg/L	1	8/22/2017
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	8/22/2017
Styrene	ND	0.0050	0.0003		mg/L	1	8/22/2017
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	8/22/2017
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	8/22/2017
Toluene	ND	0.0050	0.0004		mg/L	1	8/22/2017
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	8/22/2017
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	8/22/2017
Trichloroethene	ND	0.0050	0.0003		mg/L	1	8/22/2017
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	8/22/2017
Xylenes, Total	ND	0.015	0.001		mg/L	1	8/22/2017

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

Date Reported: August 23, 2017
Date Printed: August 23, 2017

ANALYTICAL RESULTS

CLIENT: Apex Companies, LLC
Work Order: 17080612 Revision 0
Project: PECO-2017-68, Franklin Centre, 7201 S. 76th St., Fra
Lab ID: 17080612-003

Client Sample ID: MW-3
Collection Date 8/17/2017 10:35:00 AM
Matrix: AQUEOUS

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		**SW8260B (SW5030B)**		Prep Date:			Analyst: **ART**
Acetone	ND	0.020	0.0031		mg/L	1	8/22/2017
Benzene	ND	0.0050	0.0002		mg/L	1	8/22/2017
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	8/22/2017
Bromoform	ND	0.0050	0.0003		mg/L	1	8/22/2017
Bromomethane	ND	0.010	0.002		mg/L	1	8/22/2017
2-Butanone	ND	0.020	0.0016		mg/L	1	8/22/2017
Carbon disulfide	ND	0.010	0.0003		mg/L	1	8/22/2017
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	8/22/2017
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	8/22/2017
Chloroethane	ND	0.010	0.0005		mg/L	1	8/22/2017
Chloroform	ND	0.0050	0.0001		mg/L	1	8/22/2017
Chloromethane	ND	0.010	0.0003		mg/L	1	8/22/2017
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	8/22/2017
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	8/22/2017
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	8/22/2017
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	8/22/2017
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	8/22/2017
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	8/22/2017
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	8/22/2017
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	8/22/2017
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	8/22/2017
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	8/22/2017
2-Hexanone	ND	0.020	0.0002		mg/L	1	8/22/2017
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	8/22/2017
Methylene chloride	ND	0.0050	0.0002		mg/L	1	8/22/2017
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	8/22/2017
Styrene	ND	0.0050	0.0003		mg/L	1	8/22/2017
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	8/22/2017
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	8/22/2017
Toluene	ND	0.0050	0.0004		mg/L	1	8/22/2017
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	8/22/2017
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	8/22/2017
Trichloroethene	ND	0.0050	0.0003		mg/L	1	8/22/2017
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	8/22/2017
Xylenes, Total	ND	0.015	0.001		mg/L	1	8/22/2017

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

Date Reported: August 23, 2017
Date Printed: August 23, 2017

ANALYTICAL RESULTS

CLIENT: Apex Companies, LLC
Work Order: 17080612 Revision 0
Project: PECO-2017-68, Franklin Centre, 7201 S. 76th St., Fra
Lab ID: 17080612-004

Client Sample ID: Duplicate
Collection Date 8/17/2017
Matrix: AQUEOUS

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		**SW8260B (SW5030B)**		Prep Date:			Analyst: **ART**
Acetone	ND	0.020	0.0031		mg/L	1	8/22/2017
Benzene	ND	0.0050	0.0002		mg/L	1	8/22/2017
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	8/22/2017
Bromoform	ND	0.0050	0.0003		mg/L	1	8/22/2017
Bromomethane	ND	0.010	0.002		mg/L	1	8/22/2017
2-Butanone	ND	0.020	0.0016		mg/L	1	8/22/2017
Carbon disulfide	ND	0.010	0.0003		mg/L	1	8/22/2017
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	8/22/2017
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	8/22/2017
Chloroethane	ND	0.010	0.0005		mg/L	1	8/22/2017
Chloroform	ND	0.0050	0.0001		mg/L	1	8/22/2017
Chloromethane	ND	0.010	0.0003		mg/L	1	8/22/2017
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	8/22/2017
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	8/22/2017
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	8/22/2017
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	8/22/2017
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	8/22/2017
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	8/22/2017
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	8/22/2017
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	8/22/2017
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	8/22/2017
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	8/22/2017
2-Hexanone	ND	0.020	0.0002		mg/L	1	8/22/2017
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	8/22/2017
Methylene chloride	ND	0.0050	0.0002		mg/L	1	8/22/2017
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	8/22/2017
Styrene	ND	0.0050	0.0003		mg/L	1	8/22/2017
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	8/22/2017
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	8/22/2017
Toluene	ND	0.0050	0.0004		mg/L	1	8/22/2017
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	8/22/2017
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	8/22/2017
Trichloroethene	ND	0.0050	0.0003		mg/L	1	8/22/2017
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	8/22/2017
Xylenes, Total	ND	0.015	0.001		mg/L	1	8/22/2017

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

Date Reported: August 23, 2017
Date Printed: August 23, 2017

ANALYTICAL RESULTS

CLIENT: Apex Companies, LLC
Work Order: 17080612 Revision 0
Project: PECO-2017-68, Franklin Centre, 7201 S. 76th St., Fra
Lab ID: 17080612-005

Client Sample ID: Trip Blank
Collection Date
Matrix: TRIP BLANK

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS		**SW8260B (SW5030B)**		Prep Date:			Analyst: **ART**
Acetone	ND	0.020	0.0031		mg/L	1	8/22/2017
Benzene	ND	0.0050	0.0002		mg/L	1	8/22/2017
Bromodichloromethane	ND	0.0050	0.0002		mg/L	1	8/22/2017
Bromoform	ND	0.0050	0.0003		mg/L	1	8/22/2017
Bromomethane	ND	0.010	0.002		mg/L	1	8/22/2017
2-Butanone	ND	0.020	0.0016		mg/L	1	8/22/2017
Carbon disulfide	ND	0.010	0.0003		mg/L	1	8/22/2017
Carbon tetrachloride	ND	0.0050	0.001		mg/L	1	8/22/2017
Chlorobenzene	ND	0.0050	0.0002		mg/L	1	8/22/2017
Chloroethane	ND	0.010	0.0005		mg/L	1	8/22/2017
Chloroform	ND	0.0050	0.0001		mg/L	1	8/22/2017
Chloromethane	ND	0.010	0.0003		mg/L	1	8/22/2017
Dibromochloromethane	ND	0.0050	0.0002		mg/L	1	8/22/2017
1,1-Dichloroethane	ND	0.0050	0.0002		mg/L	1	8/22/2017
1,2-Dichloroethane	ND	0.0050	0.0002		mg/L	1	8/22/2017
1,1-Dichloroethene	ND	0.0050	0.0004		mg/L	1	8/22/2017
cis-1,2-Dichloroethene	ND	0.0050	0.0002		mg/L	1	8/22/2017
trans-1,2-Dichloroethene	ND	0.0050	0.0005		mg/L	1	8/22/2017
1,2-Dichloropropane	ND	0.0050	0.0001		mg/L	1	8/22/2017
cis-1,3-Dichloropropene	ND	0.0010	0.0002		mg/L	1	8/22/2017
trans-1,3-Dichloropropene	ND	0.0010	0.0001		mg/L	1	8/22/2017
Ethylbenzene	ND	0.0050	0.0003		mg/L	1	8/22/2017
2-Hexanone	ND	0.020	0.0002		mg/L	1	8/22/2017
4-Methyl-2-pentanone	ND	0.020	0.0007		mg/L	1	8/22/2017
Methylene chloride	ND	0.0050	0.0002		mg/L	1	8/22/2017
Methyl tert-butyl ether	ND	0.0050	0.0003		mg/L	1	8/22/2017
Styrene	ND	0.0050	0.0003		mg/L	1	8/22/2017
1,1,2,2-Tetrachloroethane	ND	0.0050	0.0001		mg/L	1	8/22/2017
Tetrachloroethene	ND	0.0050	0.0003		mg/L	1	8/22/2017
Toluene	ND	0.0050	0.0004		mg/L	1	8/22/2017
1,1,1-Trichloroethane	ND	0.0050	0.0002		mg/L	1	8/22/2017
1,1,2-Trichloroethane	ND	0.0050	0.0001		mg/L	1	8/22/2017
Trichloroethene	ND	0.0050	0.0003		mg/L	1	8/22/2017
Vinyl chloride	ND	0.0020	0.0003		mg/L	1	8/22/2017
Xylenes, Total	ND	0.015	0.001		mg/L	1	8/22/2017

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 W. Harrison Suite 200, Chicago, Illinois 60612 Phone: (312) 733-0551 Fax: (312) 733-2386
e-mail address: STATinfo@STATAnalysis.com ***AIHA, NVLAP and NELAP accredited***

CHAIN OF CUSTODY RECORD

N°: 863939 **Page :** 1 **of** 1

Company: Apex Companies
Project Number: PECO.2017.68 Client Tracking No.:
Project Name: Franklin Center
Project Location: 7201 S. 76th St., Franklin, WI
Sampler(s): Joe Becker
Report To: Joe Becker Phone: 847-452-1787
Steve Nemlin Fax: jbecker@apexcos.com
e-mail: snemlin@apexcos.com
QC Level: 1 ____ 2 ____ 3 ____ 4 ____

P.O. No.:
Quote No.:

Turn Around: STL
Results Needed: / / am/pm

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	VOCs	Remarks	Lab No.:
MW-1	8-17-17	12:05	GW		X	E	3	X		001
MW-2	↓	11:20	↓		X	↓	↓	X		002
MW-3		10:35			X			X		003
Duplicate		—			X			X		004
Trip Blank							2	X		005

Relinquished by: (Signature)	Date/Time: 8-17-17/1655	**Comments:** Report in MDLs
Received by: (Signature)	Date/Time: 8/17/17	**Laboratory Work Order No.:** 1708612
Relinquished by: (Signature)	Date/Time: 16:55	
Received by: (Signature)	Date/Time:	**Received on Ice:** Yes [X] No [ ]
Relinquished by: (Signature)	Date/Time:	**Temperature:** 4.7 °C
Received by: (Signature)	Date/Time:	

Preservation Code: A = None B = HNO_3 C = NaOH D = H_2SO_4 E = HCl F = 5035/EnCore G = Other

STAT Analysis Corporation

Sample Receipt Checklist

Client Name APEX | Date and Time Received: 8/17/2017 4:55:00 PM

Work Order Number 17080612 | Received by: JNW

Checklist completed by: Signature 8/17/17 Date | Reviewed by: Initials FE 8/18/17 Date

Matrix: | Carrier name Client Delivered

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping 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 4.7 °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: