



Additional Site Investigation Report

for

Greentree Cleaners Tenant Space
Greentree Centre
5111 Douglas Avenue, Unit D
Racine, Racine County, Wisconsin

DNR FID #252138700
DNR BRRTS #02-52-579863

June 14, 2022

Apex Project No. PECO_2017-100

Prepared for:

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



June 14, 2022

Ms. Shanna Laube-Anderson
State of Wisconsin
Department of Natural Resources
Southeast Region Headquarters
2300 N. Dr. Martin Luther King, Jr. Drive
Milwaukee, Wisconsin 53212-3128

Re: Additional Site Investigation Report
Greentree Cleaners Tenant Space, Greentree Centre
5111 Douglas Avenue, Unit D, Racine, Wisconsin
Wisconsin DNR Facility Identification #252138700
Wisconsin DNR BRRTS Activity #02-52-579863

Dear Ms. Laube-Anderson:

Greentree Station LLC retained Apex to conduct additional site investigation at the location of the former dry cleaner tenant space at 5111 Douglas Avenue, Unit D. This tenant space is located within Greentree Station LLC's Greentree Centre, a retail strip mall located at 5055 & 5111-5141 Douglas Avenue in Racine, Racine County, Wisconsin.

Additional site assessment has been conducted in response to comments provided in the letter from the Wisconsin DNR dated April 23, 2022, and comments provided to Steve Newlin via email dated October 1, 2021 on the Additional Site Investigation Work Plan dated June 28, 2021.

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

A handwritten signature in black ink that reads 'Jane Allan'.

Jane Allan
Senior Project Manager

cc: Mr. Joe Schlosser, Greentree Station LLC

Attachments

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**RESULTS OF ADDITIONAL SITE INVESTIGATION
GREENTREE CLEANERS TENANT SPACE, GREENTREE CENTRE
5111 DOUGLAS AVENUE
RACINE, RACINE COUNTY, WISCONSIN**

1.0 INTRODUCTION

Phillips Edison Company (Client) retained Apex Companies, LLC (Apex) to conduct additional site investigation in association with the dry cleaner tenant space at 5111 Douglas Avenue in Racine, Wisconsin (the Site). Greentree Station LLC (Client) acquired a retail strip mall located at 5055 & 5111-5141 Douglas Avenue in Racine, Racine County, Wisconsin (the Site) from IRC Greentree, L.L.C in May 2017. The general vicinity of the Site is shown in **Figure B.1.a** and the Site is shown in **Figure B.2.b**.

Prior to acquiring the Site, Client retained Apex to conduct a Phase I Environmental Site Assessment (ESA) at the Greentree Centre. The Phase I ESA identified one recognized environmental condition (REC), use of dry cleaning solvents in a tenant space currently occupied by Greentree Cleaners. Client subsequently retained Apex to conduct a Site Investigation (subsurface investigation) at the dry cleaner tenant space at 5111 Douglas Avenue, Unit D.

In response to a release of chlorinated volatile organic compounds (cVOCs), Apex designed and operated a soil vapor extraction (SVE) system intended to draw the soil-vapor from below the floor slab in the areas of soil-gas exceedances by creating a vacuum field beneath the slab. Operation of the SVE reduced potential vapor intrusion from the sub-slab to indoor air, and reduce soil contamination.

After operation of the SVE system and the resampling of the soil and vapor beneath the floor slab, a Closure Request was submitted to the DNR dated May 2020. In a letter dated April 23, 2022 Wisconsin Department of Natural Resources (DNR) did not recommended case closure, and identified additional site investigation required to confirm the SVE system has fully remediated the Site.

1.1 Objectives and Scope of Work

To further characterize the extent of VOC impacts sub-slab soil-gas, assess potential vapor intrusion migration pathways and verify that vapor intrusion mitigation is no longer required, Apex conducted additional assessment in January and May 2022. The specific scope of work included (1) soil-gas sampling/analysis; (2) indoor air sampling/analysis; and (3) conduit vapor sampling/analysis.

The subsurface assessment activities are discussed in **Section 2.0**; soil-gas, indoor air and conduit vapor analysis are discussed in **Section 3.0**; a summary of the assessment are discussed in **Section 4.0**; and conclusions and recommendations are discussed in **Section 5.0**.

2.0 ADDITIONAL ASSESSMENT

Subsurface assessment included a non-invasive geophysical survey to identify the location of subsurface utility beneath and behind the building. Installation of two additional sub-slab soil vapor probes (SV-13 and SV-14), collection of twelve sub-slab soil vapor samples, collection of one sewer cleanout sample from the dry cleaner tenant space, and collection of two rounds of indoor air samples at the dry cleaner and adjacent vacant tenant space to the north.

The locations of the sub-slab sample, sewer cleanout sample and indoor air sample are shown on **Figure B.4.a**.

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 identify the locations subsurface utilities beneath the building slab and behind the building that may have provided a preferential pathway for contaminant migration in soil at the time of release, and may continue to provide a preferential pathway for the migration of vapors and vapor intrusion. In addition the locations of proposed sampling were cleared to avoid damaging underground utilities. The geophysical survey was performed using a combination of ground-penetrating radar (GPR) and radio detection (RD) techniques. The geophysical survey was conducted in May 2021, prior to preparation of the June 28, 2021 work plan, to identify locations of the installation of proposed sub-slab soil vapor probes along potential vapor migration pathways.

2.2 Vapor Intrusion Sampling and Analytical Program

On November 14, 2021, the exhaust vent on the existing vapor mitigation system was sealed off to eliminate passive venting.

2.2.1 Sampling of Sub-Slab Soil Vapor

Apex collected 12 soil-gas samples immediately below the concrete floor slab in and adjacent to the former dry cleaner tenant space. Sampling was conducted during the heating season. One soil-gas sample was collected from the following locations shown in **Figure B.4.a**: SV-2, SV-3, SV-4, SV-5, SV-6, SV-7, SV-8, SV-9, SV-10, SV-11 and two new locations SV-13 and SV-14. The two new sample points were included to further investigate potential preferential pathway migration along sewer and water lines beneath the floor slab.

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. Then 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 cleared of any debris prior to installing the soil gas probe. The soil gas probes consisted of a stainless-steel MIP adapter/compression coupling, covered with a silicone tube, inserted and seated firmly into the 5/8-inch diameter hole drilled through the concrete slab.

Prior to sample collection, leak tests were performed on the sample probes 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. 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 attached to the regulator with Swagelock® fittings. A shut-in test was performed on the sample train by connecting the tubing to a syringe and plunger. With the Summa® canister valve closed, a vacuum of approximately 20 inches of mercury was applied to the sample train and maintained for 60 seconds. The pressure was observed to confirm the pressure gauge remains stable for the duration of the test.

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 PID equipped with a 10.6 eV PID lamp. Upon successful leak test completion and probe purging/screening, sub-slab 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 locations, the Summa canister was connected to the sample probe and the regulator valve will be opened. 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 on sub-slab sampling logs (**Appendix A**).

Soil-slab vapor samples were submitted to Pace Analytical for analysis of the target analytes (cVOCs) by EPA Method TO-15. The results of the soil-gas analysis are summarized in **Table A.4.1** and discussed in **Section 3.1**. The laboratory analytical report is included in **Appendix B**.

2.2.2 Sampling of Indoor Air

In addition to the sub-slab vapor sampling described above, one indoor air sample was collected at the former dry cleaner space and one at the adjacent tenant space to the north, for analysis of cVOCs by EPA Method TO-15.

During the January 12 sampling event, the air samples were collected using batch-certified 6-liter Summa® canisters with (30-minute) flow control valves with a flow rate of 200 milliliters per minute (mL/min), rather than with 8-hour regulator. Due to the deviation from the standard sampling protocols for indoor air sampling, a second indoor air sampling event was conducted in May 5, 2022 and samples were collected over a period of 8-hours. The outside temperature during the January 12, 2022 sampling event ranged from 33 to 40° F and during the May 5, 2022 sampling event ranged from 44 to 55° F, and the HVAC in both tenant spaces were operating.

The indoor air samples were collected from summa canisters placed at approximately the height of the normal breathing zone in the central portion of the store. The air sample logs are included in **Appendix A**.

Samples collected on January 13, 2022 were submitted to Pace Analytical for analysis of the target analytes (cVOCs) by EPA Method TO-15. Samples collected on May 5, 2022 were analyzed by STAT Lab for analysis of the target analytes (cVOCs) by EPA Method TO-15. The results of the indoor air

are summarized in **Table A.4.2** and discussed in **Section 3.2**. The laboratory analytical reports are included in **Appendix B**.

2.2.2 Sampling of Sewer System at Floor Drain

During the January 12, 2022 sampling event, a sample was collected from the floor drain in the bathroom of the dry cleaner tenant space. This location represents the closest sewer access point to the dry cleaner location. The sample tubing was inserted into the floor drain, and a sump was created by temporarily sealing the drain around the tubing to prevent indoor air from entering the drain during sampling. The sample train was allowed to equilibrate for a period of one hour, then purged a minimum of three tubing volumes prior to collecting the sample.

The sample was collected into a batch-certified 6-liter Summa® canisters with (30-minute) flow control valves with a flow rate of 200 mL/min. The sample log is included in **Appendix A**.

The conduit air sample was submitted to Pace Analytical for analysis of the target analytes (cVOCs) by EPA Method TO-15. The results are summarized in **Table A.4.3**, discussed in **Section 3.3**. The laboratory analytical report is included in **Appendix B**.

3.0 RESULTS OF VAPOR INTRUSION ANALYSIS

Subslab soil vapor samples were collected to assess soil gas concentration post-SVE and to assess conditions along subsurface utilities under the building that may provide a preferential pathway for vapor migration. Indoor air samples were collected to assess whether vapor mitigation is required. A sample was collected from the plumbing system in the former dry cleaner, to assess whether this is a significant vapor intrusion pathway.

3.1 Results of the Sub-Slab Soil-Gas Analysis

Apex collected 12 soil-gas samples immediately below the concrete floor slab at the locations shown in **Figure B.4.a**. Sample collected at the previously installed SV-2, SV-3, SV-4, SV-5, SV-6, SV-7, SV-8, SV-9, SV-10 and SV-11 were collected to provide a second round of post-SVE sampling. These sample locations provided. The sample locations were selected to include the source area by the dry cleaning equipment, and to assess the lateral extent of VOCs in sub-slab soil-gas in the dry cleaner and adjacent tenant spaces.

Samples were collected a two new vapor points (SV-13 and SV-14) to further assess the potential vapor migration along utilities. The previously installed SV-7 is located immediately adjacent to the lines running south of the dry-cleaner and provides delineation in that direction.

The results of the soil-gas analysis were compared to sub-slab Vapor Risk Screening Levels (VRSLs) for residential, small commercial, and large commercial/industrial (**Table A.4.1**).

- Tetrachloroethene (PCE) was detected in all of the samples at concentrations ranging from 3.0 to 342. $\mu\text{g}/\text{m}^3$
- Trichloroethene (TCE) was detected in eight (8) of the twelve (12) samples at concentrations ranging from 1.5 to 16.7 $\mu\text{g}/\text{m}^3$
- Cis-1,2-Dichloroethene (cDCE) was detected in seven (7) of the twelve (12) samples at concentrations ranging from 0.49 to 6.6. $\mu\text{g}/\text{m}^3$

There were no detections of trans-1,2-Dichloroethene (tDCE) or vinyl chloride (VC) in soil gas samples, and no exceedances of any VRSLs.

3.2 Results of the Indoor Air Analysis

Apex collected indoor air samples at the dry cleaner and the adjacent space to the north on January 13, 2022 and May 5, 2022 (**Figure B.4.a**).

The results of the indoor air analysis were compared to indoor air Vapor Action Level (VALs) for residential, small commercial, and large commercial/industrial (**Table A.4.2**).

- Tetrachloroethene (PCE) was detected in all of the samples at concentrations ranging from 10.3 to 28 $\mu\text{g}/\text{m}^3$

There were no detections of TCE, cDCE, tDCE or VC in indoor air samples. There were no exceedances of any VALs.

3.3 Results of the Floor Drain Sump Air Analysis

A vapor sample was collected from floor drain located in the dry cleaner tenant space (**Figure B.4.a**).

There were no detections of TCE, cDCE, tDCE or VC in indoor air samples. Per WDNR Guidance for Documenting the Investigation of Human-made Preferential Pathways Including Utility Corridors, since the sample was collected from a sump that was temporarily sealed for sampling, the floor drain sample were compared to the VAL (attenuation = 1) **Table A.4.2**.

- Tetrachloroethene (PCE) was detected in at 70.5 $\mu\text{g}/\text{m}^3$;

This exceeds the residential VAL of 42 $\mu\text{g}/\text{m}^3$; but is well below the small commercial and large commercial/industrial VAL.

4.0 SUMMARY

Client retained Apex to conduct additional site investigation in association with the dry cleaner tenant space at 5111 Douglas Avenue in Racine, Wisconsin. This tenant space is located within Client's Greentree Centre, a retail strip mall located at 5055 & 5111-5141 Douglas Avenue in Racine, Racine County, Wisconsin

Prior to acquiring the Site, Client retained Apex to conduct a Phase I Environmental Site Assessment (ESA) at the Greentree Centre. The Phase I ESA identified one recognized environmental condition (REC), use of dry cleaning solvents in a tenant space currently occupied by Greentree Cleaners. Client subsequently retained Apex to conduct a Site Investigation (subsurface investigation) at the dry cleaner tenant space at 5111 Douglas Avenue, Unit D.

In response to a release of chlorinated volatile organic compounds (cVOCs), Apex designed and operated a soil vapor extraction (SVE) system intended to draw the soil-vapor from below the floor slab in the areas of soil-gas exceedances by creating a vacuum field beneath the slab. Operation of the SVE reduced potential vapor intrusion from the sub-slab to indoor air, and reduce soil contamination.

After operation of the SVE system and the resampling of the soil and vapor beneath the floor slab, a Closure Request was submitted to the DNR dated May 2020. In a letter dated April 23, 2022 Wisconsin Department of Natural Resources (DNR) did not recommended case closure, and identified additional site investigation required to confirm the SVE system has fully remediated the Site.

Twelve sub-slab soil gas samples were collected: ten from existing sub-slab soil vapor probes at SV-2, SV-3, SV-4, SV-5, SV-6, SV-7, SV-8, SV-9, SV-10, SV-11 and two at newly installed soil vapor probes SV-13 and SV-14. The results from soil vapor sampling confirmed that the sub-slab soil vapors are delineated in tenant spaces to the north and south of the dry cleaner, and there is no indication of vapor migration along preferential pathway provided by utilities running north-south under the slab.

Indoor air samples were collected at the dry cleaner and the vacant tenant space to the north Indoor air meets VALs for residential, small commercial, and large commercial/industrial. Samples were collected with the venting system off (since DATE), and the exhaust capped to prevent passive venting.

A sample was collected from behind the p-trap at the floor drain in the dry cleaner. The results indicated that the plumbing system was not a significant source for vapor intrusion.

6.0 CONCLUSIONS AND RECOMENDATIONS

It is Apex's opinion that vapors beneath the slab are delineated including along preferential pathways provided by utilities that run north-south beneath the slab. There are no exceedances of any VRSL.

Results from a conduit sample collected from the bathroom floor drain at the Greentree Cleaner met the small commercial VAL but exceeded the residential VAL, indicating there does not appear to be a significant preferential pathway for vapor intrusion to indoor air from the plumbing system.

The SVE system ran between September 18, 2018 and December 20, 2018, and has been inactive since that time. The SVE vent was capped on November 14, 2021 to eliminate passive venting. Indoor air samples collected on January 13, 2022 and May 5, 2022 met Indoor Air VALs for residential, small commercial and large commercial/industrial. Therefore, it is Apex's opinion that mitigation is not needed.

Apex intends to update the previous closure request with the results from this assessment, along with clarification regarding the soil and groundwater delineation requested in the April 23, 2021 Case Closure Not Recommended letter.

TABLES

A.4.1 Summary of Soil Gas Data for Volatile Organic Compounds (VOCs)
EPA Method TO-15
Greentree Centre
5111 Douglas Avenue, Racine, Wisconsin

Analytes	Sub-Slab Vapor VRSL			Sub-slab Sample Location	SV-1		SV-2			SV-3				
	RESIDENTIAL	SMALL COMMERCIAL	LARGE COMMERCIAL		8:44-9:14 AM	10:38-11:17 AM	9:36-10:15 AM	11:11-11:48 AM	12:31-1:12 PM	12:52-1:25 PM	11:00-11:39 AM	10:46-11:22 AM	12:31-1:12 PM	
	AF = 0.03	AF = 0.03	AF = 0.01	Collection Time	Date	6/13/2017	6/27/2019	6/13/2017	1/4/2019	1/13/2022	6/13/2017	1/4/2019	6/27/2019	1/13/2022
Benzene	120	520	1,600			1.3	0.6	1.4	<0.23	NR	1.2	0.28	0.62	NR
Chloroform	41.0	180	530			1.7	2.2	39.0	27.3	NR	29.8	13.6	16.2	NR
Chloromethane	3,100	13,000	39,000			1.9	<0.23	11.8	<0.24	NR	<0.19	<0.24	<0.24	NR
Dichlorodifluoromethane	3,500	15,000	44,000			849	139	3.2	6.4	NR	3.7	10.9	3.3	NR
1,1-Dichloroethane	590	2,600	7,700			<0.26	<0.34	<0.23	<0.34	NR	<0.27	<0.34	<0.35	NR
1,2-Dichloroethane	36	160	470			<0.34	<0.22	<0.31	<0.23	NR	<0.36	<0.23	<0.23	NR
1,1-Dichloroethene	7,000	29,000	88,000			<0.40	<0.41	<0.353	<0.42	NR	<0.42	<0.42	<0.42	NR
cis-1,2-Dichloroethene	NE	NE	NE			<0.41	<0.33	2.2	13.4	<0.27	5.4	<0.33	<0.34	<0.28
trans-1,2-Dichloroethene	NE	NE	NE			<0.65	<0.42	<0.57	<0.43	<0.24	<0.67	<0.43	<0.44	<0.24
Ethylbenzene	370.0	1,600	4,900			2.3	1	1.5	2.0	NR	2.0	1.4	1.1	NR
Methylene Chloride	21,000	88,000	260,000			14.7	19.6	4.8	2.9	NR	3.8	3.9	17.9	NR
Methyl tertiary-butyl ether	3,700	16,000	47,000			<0.51	<0.99	<0.45	<1.0	NR	<0.53	<1.0	<1.0	NR
Naphthalene	28.0	120	360			19.0	2.9	25.3	11.7	NR	26.0	18.0	2.3	NR
Tetrachloroethene	1,400.0	5,800	18,000			116	30.8	4,570	490	8.3	7,720	128	61	178
Toluene	170,000	730,000	2,200,000			13.0	3.9	2.8	7.9	NR	4.1	3.7	3.1	NR
1,1,1-Trichloroethane	170,000	730,000	2,200,000			<0.41	<0.46	<0.37	<0.47	NR	<0.43	<0.47	<0.48	NR
Trichloroethene	70.0	290	880			2.7	1.1	28.6	44.9	<0.28	48.0	2.0	2.1	5.6
Trichlorofluoromethane	NE	NE	NE			3.3	2.9	1.9	<0.56	NR	1.9	1.1	1.5	NR
1,2,4-Trimethylbenzene	2,100	8,700	26,000			36.6	15.3	10.6	6.7	NR	16.5	6.6	10.3	NR
1,3,5-Trimethylbenzene	2,100	8,700	26,000			22.4	8.5	4.4	3.6	NR	7.9	2.4	4.7	NR
Vinyl chloride	56	930	2,800			<0.33	<0.19	<0.29	<0.19	<0.12	<0.34	<0.19	<0.20	<0.12
m,p-Xylene	3,500	15,000	44,000			6.3	3.6	2.8	9.1	NR	3.3	6.6	4.1	NR
o-Xylene	3300	15,000	44,000			3.4	3.8	1.5	3.4	NR	2.2	2.7	3	NR

Notes:

Concentrations expressed in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$)

Analytes above residential VRSL are shown in *italics*

Analytes above small commercial VRSL concentrations are shown in **bold**

NR = Not reported

AF = Attenuation Factor

NE = Remedial Objective not established.

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

All samples collected into 6L Summa canisters; Vapor pins purged and sampled at < 0.2 lpm.

Each vapor pin location was leak tested using the water dam method and shut in test.

VRSL = Vapor Risk Screening level

A.4.1 Summary of Soil Gas Data for Volatile Organic Compounds (VOCs)
EPA Method TO-15
Greentree Centre
5111 Douglas Avenue, Racine, Wisconsin

Analytes	Sub-Slab Vapor VRSL			Sub-slab Sample Location	SV-4			SV-5		SV-6		SV-7		SV-8	
	RESIDENTIAL	SMALL COMMERCIAL	LARGE COMMERCIAL		1:23-1:58 PM	9:34-10:11 AM	3:08-3:48 PM	1:24-1:58 PM	3:09-3:49 PM	12:24-12:57 PM	11:34-12:00 PM	12:15-12:52 PM	3:06-3:43 PM	2:38-3:11 PM	12:31-1:04 PM
	AF = 0.03	AF = 0.03	AF = 0.01	Collection Time	8/16/2017	6/27/2019	1/13/2022	8/16/2017	1/13/2022	8/16/2017	1/13/2022	8/16/2017	1/13/2022	8/16/2017	1/13/2022
				Date	8/16/2017	6/27/2019	1/13/2022	8/16/2017	1/13/2022	8/16/2017	1/13/2022	8/16/2017	1/13/2022	8/16/2017	1/13/2022
Benzene	120	520	1,600		<2.1	0.5	NR	<2.0	NR	<2.1	NR	<2.0	NR	<2.2	NR
Chloroform	41.0	180	530		630	0.58	NR	53	NR	92.2	NR	39.8	NR	124	NR
Chloromethane	3,100	13,000	39,000		<1.7	0.26	NR	<1.6	NR	<1.7	NR	<1.6	NR	<1.8	NR
Dichlorodifluoromethane	3,500	15,000	44,000		<6.7	2.9	NR	115	NR	<6.7	NR	<6.4	NR	<7.0	NR
1,1-Dichloroethane	590	2,600	7,700		<3.4	<0.34	NR	<3.3	NR	<3.4	NR	<3.3	NR	<3.6	NR
1,2-Dichloroethane	36	160	470		<3.0	<0.23	NR	<2.9	NR	<3.0	NR	<2.9	NR	<3.2	NR
1,1-Dichloroethene	7,000	29,000	88,000		<3.8	<0.42	NR	<3.7	NR	<3.8	NR	<3.7	NR	<4.0	NR
cis-1,2-Dichloroethene	NE	NE	NE		32	<0.33	0.49	6	3.7	<3.5	3.4	28.2	2.6	3.9	<0.31
trans-1,2-Dichloroethene	NE	NE	NE		<3.1	<0.43	<0.24	<3.0	<0.24	<3.1	<0.26	<3.0	<0.25	<3.3	<0.27
Ethylbenzene	370.0	1,600	4,900		<2.8	0.9	NR	<2.7	NR	<2.8	NR	<2.7	NR	<2.9	NR
Methylene Chloride	21,000	88,000	260,000		<24.5	105	NR	71.7	NR	<24.5	NR	<23.6	NR	<25.5	NR
Methyl tertiary-butyl ether	3,700	16,000	47,000		<5.0	<1.0	NR	<4.9	NR	<5.0	NR	<4.9	NR	<5.3	NR
Naphthalene	28.0	120	360		<9.4	<2.0	NR	<9.0	NR	<9.4	NR	<9.0	NR	<9.8	NR
Tetrachloroethene	1,400.0	5,800	18,000		26,100	4.3	126	3,700	82	2,340	120	2,590	49	2,230	6
Toluene	170,000	730,000	2,200,000		69.6	4.7	NR	117	NR	63	NR	101	NR	81.5	NR
1,1,1-Trichloroethane	170,000	730,000	2,200,000		<5.5	<0.47	NR	<5.3	NR	<5.5	NR	<5.3	NR	<5.7	NR
Trichloroethene	70.0	290	880		491.0	<0.339	4.5	58.5	4.4	18.1	8.4	76.5	1.5	47.6	<0.32
Trichlorofluoromethane	NE	NE	NE		<6.7	1.4	NR	<6.5	NR	<6.7	NR	<6.5	NR	<7.0	NR
1,2,4-Trimethylbenzene	2,100	8,700	26,000		14.2	1.2	NR	14.9	NR	11.4	NR	15.8	NR	<2.9	NR
1,3,5-Trimethylbenzene	2,100	8,700	26,000		<3.8	<0.61	NR	<3.6	NR	<3.8	NR	<3.6	NR	<3.5	NR
Vinyl chloride	56	930	2,800		<2.0	<0.41	<0.12	<2.0	<0.12	<2.0	<0.13	<2.0	<0.13	<2.1	<0.14
m,p-Xylene	3,500	15,000	44,000		<5.6	2.9	NR	<5.4	NR	<5.6	NR	<5.4	NR	<5.9	NR
o-Xylene	3300	15,000	44,000		<2.8	0.9	NR	<2.7	NR	<2.8	NR	<2.0	NR	<3.0	NR

Notes:

Concentrations expressed in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$)

Analytes above residential VRSL are shown in *italics*

Analytes above small commercial VRSL concentrations are shown in **bold**

NR = Not reported

AF = Attenuation Factor

NE = Remedial Objective not established.

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

All samples collected into 6L Summa canisters; Vapor pins purged and sampled at < 0.2 lpm.

Each vapor pin location was leak tested using the water dam method and shut in test.

VRSL = Vapor Risk Screening level

A.4.1 Summary of Soil Gas Data for Volatile Organic Compounds (VOCs)
 EPA Method TO-15
 Greentree Centre
 5111 Douglas Avenue, Racine, Wisconsin

Analytes	Sub-Slab Vapor VRSL			Sub-slab Sample Location	SV-9		SV-10		SV-11		SV-12		SV-13	SV-14
	RESIDENTIAL	SMALL COMMERCIAL	LARGE COMMERCIAL		10:56-11:27 PM	3:07-3:52 PM	11:21-11:51 PM	11:24-12:00 PM	11:53-12:23 PM	3:05-3:42 PM	11:19-11:44 AM	10:54-11:31 AM	11:24-12:00 PM	3:05-3:42 PM
	AF = 0.03	AF = 0.03	AF = 0.01	Collection Time	9/13/2017	1/13/2022	9/13/2017	1/13/2022	9/13/2017	1/13/2022	1/4/2019	6/27/2019	1/13/2022	1/13/2022
				Date	9/13/2017	1/13/2022	9/13/2017	1/13/2022	9/13/2017	1/13/2022	1/4/2019	6/27/2019	1/13/2022	1/13/2022
Benzene	120	520	1,600		2.8	NR	4.3	NR	4.7	NR	0.7	0.72	NR	NR
Chloroform	41.0	180	530		2	NR	5.6	NR	36.5	NR	6.0	11.5	NR	NR
Chloromethane	3,100	13,000	39,000		<0.23	NR	<0.23	NR	<0.23	NR	<0.24	<0.24	NR	NR
Dichlorodifluoromethane	3,500	15,000	44,000		49	NR	2.8	NR	32.6	NR	7.4	2.8	NR	NR
1,1-Dichloroethane	590	2,600	7,700		<0.36	NR	<0.37	NR	<0.37	NR	<0.35	<0.34	NR	NR
1,2-Dichloroethane	36	160	470		<0.33	NR	<0.35	NR	<0.35	NR	<0.23	<0.23	NR	NR
1,1-Dichloroethene	7,000	29,000	88,000		<0.40	NR	<0.41	NR	<0.41	NR	<0.42	<0.42	NR	NR
cis-1,2-Dichloroethene	NE	NE	NE		<0.57	<0.26	<0.60	4.2	<0.60	6.8	<0.34	<0.33	<0.28	6.6
trans-1,2-Dichloroethene	NE	NE	NE		<0.50	<0.23	<0.52	<0.26	<0.52	<0.25	<0.68	<0.43	<0.25	<0.25
Ethylbenzene	370.0	1,600	4,900		4.0	NR	3.3	NR	5.1	NR	2.3	1.3	NR	NR
Methylene Chloride	21,000	88,000	260,000		6.7	NR	<2.7	NR	<2.7	NR	1.8	22.1	NR	NR
Methyl tertiary-butyl ether	3,700	16,000	47,000		<1.1	NR	<1.2	NR	<1.2	NR	<1.0	<1.0	NR	NR
Naphthalene	28.0	120	360		<1.0	NR	<1.0	NR	<1.0	NR	12.7	4.8	NR	NR
Tetrachloroethene	1,400.0	5,800	18,000		100.0	3	127.0	83.6	4,530	342.0	119	83.8	19.7	165
Toluene	170,000	730,000	2,200,000		19.5	NR	12.9	NR	12.5	NR	7.4	4.6	NR	NR
1,1,1-Trichloroethane	170,000	730,000	2,200,000		<0.57	NR	<0.60	NR	<0.60	NR	<0.48	<0.47	NR	NR
Trichloroethene	70.0	290	880		1.8	<0.26	1.5	4.7	68.8	16.7	2.0	2.5	<0.29	10.3
Trichlorofluoromethane	NE	NE	NE		1.8	NR	1.5	NR	2.6	NR	<0.57	1.5	NR	NR
1,2,4-Trimethylbenzene	2,100	8,700	26,000		5.2	NR	7.8	NR	5.3	NR	7.1	31.7	NR	NR
1,3,5-Trimethylbenzene	2,100	8,700	26,000		1.6	NR	3.3	NR	1.7	NR	1.9	16.0	NR	NR
Vinyl chloride	56	930	2,800		<0.21	<0.12	<0.22	<0.13	<0.22	<0.13	<0.20	<0.19	<0.13	<0.13
m,p-Xylene	3,500	15,000	44,000		7.1	NR	7.4	NR	10.4	NR	9.4	5.4	NR	NR
o-Xylene	3300	15,000	44,000		3.3	NR	3.5	NR	4.1	NR	3.8	8.8	NR	NR

Notes:

Concentrations expressed in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$)

Analytes above residential VRSL are shown in *italics*

Analytes above small commercial VRSL concentrations are shown in **bold**

NR = Not reported

AF = Attenuation Factor

NE = Remedial Objective not established.

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

All samples collected into 6L Summa canisters; Vapor pins purged and sampled at < 0.2 lpm.

Each vapor pin location was leak tested using the water dam method and shut in test.

VRSL = Vapor Risk Screening level

A.4.2 Summary Indoor Air and Floor Drain Sump Data for Volatile Organic Compounds (VOCs)
 Method TO-15
 Greentree Centre
 5111 Douglas Avenue, Racine, Wisconsin

Analytes	Indoor Air Vapor Action Level (VAL)			Sample Name	IA-1 (Indoor)	IA-2 (Indoor)	BD-1 (Bathroom Sewer Cleanout)
	Residential	Small Commercial	Large Commercial/Industrial				
	Date Collected				1/13/2022		
cis-1,2-Dichloroethene	NE	NE	NE		<0.31	<0.3	<0.3
trans-1,2-Dichloroethene	42	180	5800		<0.27	<0.26	<0.26
Tetrachloroethene	42	180	5800		10.3	11.9	70.5
Trichloroethene	2.1	8.8	8.8		<0.31	<0.3	<0.3
Vinyl chloride	1.7	28	28		<0.14	<0.13	<0.13

Notes:

concentrations in micrograms per cubic meter (ug/m3).

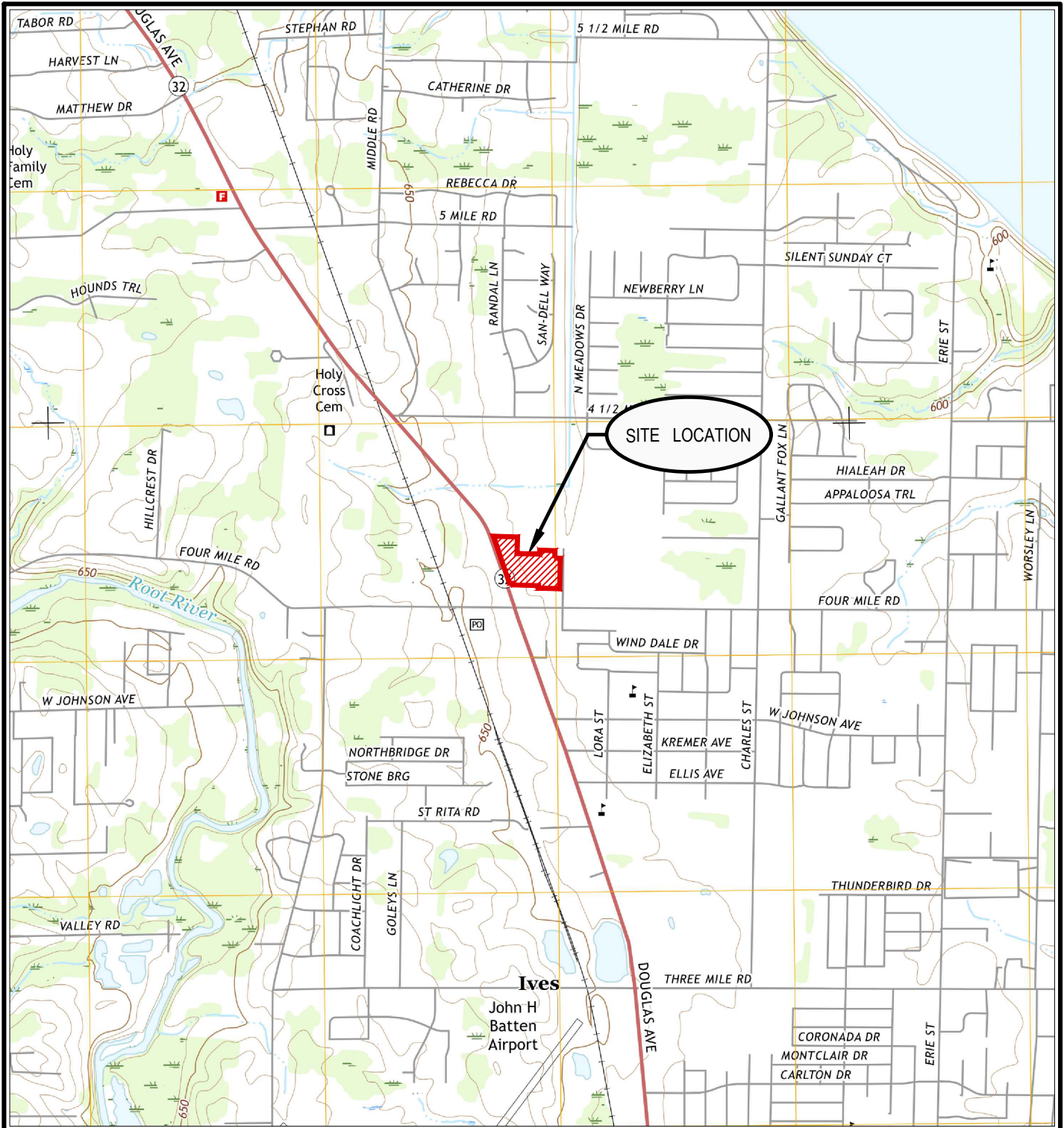
Samples collected into 6 L. Summa Canisters with < 0.2 lpm regulators.

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

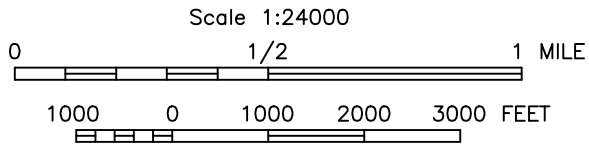
Analytes above Indoor Vapor Action Level concentrations are shown in **bold**.

NE = Remedial Objective not established.

FIGURES



QUADRANGLE LOCATION



(SOURCE OF MAP IS USGS 7.5 MINUTE QUADRANGLE MAP, RACINE NORTH (2016), WISCONSIN)

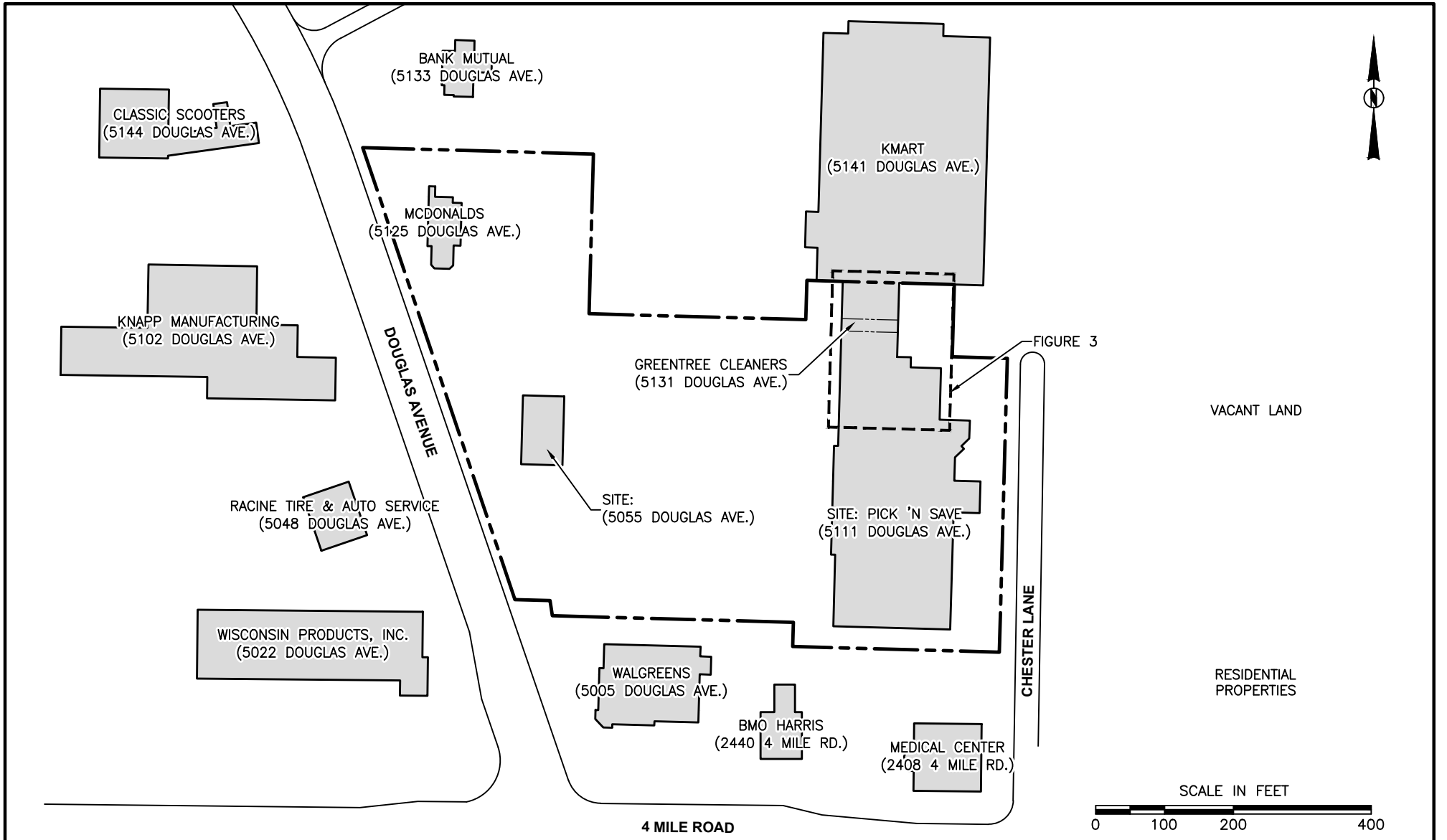


CHECK BY	JA
DRAWN BY	EM
DATE	04-29-22
SCALE	AS SHOWN
CAD NO.	2017-100.005[1]
PRJ NO.	PECO_2017-100

SITE LOCATION MAP
 GREENTREE CENTRE
 5111 DOUGLAS AVENUE
 RACINE, WISCONSIN



FIGURE
 B1 a



LEGEND

----- PROPERTY BOUNDARY

CHK BY	JA
DWN BY	EM
DATE	04-29-22
SCALE	AS SHOWN
CAD NO.	2017-100.05[2]
PRJ NO.	PECO_2017-100

SITE PLAN
 GREENTREE CENTRE
 5111 DOUGLAS AVENUE
 RACINE, WISCONSIN



FIGURE

B1b

KMART
(5141 DOUGLAS AVE.)



COUSIN'S SUBS
(5131 DOUGLAS AVE.)

KINGS WOK
(5131 DOUGLAS AVE.)

VACANT
(5131 DOUGLAS AVE.)

GREENTREE CLEANERS
(5131 DOUGLAS AVE.)

COST CUTTERS FAMILY HAIR SALON
(5131 DOUGLAS AVE.)

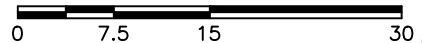
NAIL EXPRESS

DRY
CLEANING
PLANT

CHEMICAL STORAGE

DOUGLAS AVENUE
DINER STORAGE

SCALE IN FEET



THERE WAS NO EXCEEDANCES OF ANY
INDOOR AIR VAPOR ACTION LEVELS (VALs)
OR SUB-SLAB VAPOR RISK SCREENING
LEVELS (VRSLs) DURING POST REMEDIATION
SAMPLING CONDUCTED IN 2019 AND 2022

LEGEND

- SUB-SLAB SOIL VAPOR SAMPLE
- INDOOR AIR
- FLOOR DRAIN
- BATHROOM FLOOR DRAIN
- PIPING IDENTIFIED WITH RADAR

CHECK BY	JA
DRAWN BY	OS
DATE	4-29-22
SCALE	AS SHOWN
CAD NO.	PECO.2017.100G2
PRJ NO.	PECO_2017-100

VAPOR INTRUSION MAP

GREENTREE CENTRE
5111 DOUGLAS AVENUE, UNIT D
RACINE, WISCONSIN



FIGURE

B.4.a

APPENDIX A

Sample Logs



SOIL-VAPOR IMPLANT SAMPLE LOG

Project Name: <u>Green Tree Sub Slab Sampling</u>	Project Number: <u>PECO_2017-100</u>
Soil-Vapor Implant Installation Date: <u>January 13, 2022</u>	Project Address: <u>5131 Douglas Avenue Suite #D,</u>
Soil-Vapor Sample Date: <u>January 13, 2022</u>	<u>Racine, WI 53402</u>

SAMPLING INFORMATION

Soil-Vapor Implant Purge Air: <u>0.0</u> <u>2.5</u> <small>Stabilized PID Reading (PPM) Volume (liters)</small>	Sample Start Time: <u>January 13, 2022</u> <u>12:31</u> <small>DATE TIME</small>
Leak Test Method: <u>Shut-in Test</u> <u>Water Dam</u> <small>Sample Train Soil-Vapor Implant</small>	Sample End Time: <u>January 13, 2022</u> <u>1:12</u> <small>DATE TIME</small>
Shut-in Test: <u>29</u> <u>60</u> <small>Max. Vacuum (inches Hg) Test Duration (seconds)</small>	Canister Vacuum: <u>29</u> <u>2</u> <small>Initial (Inches Hg) Final (Inches Hg)</small>
Leak Test Notes: <u>Pass</u> <small>Shut-in Test</small>	Analysis Details: <u>Pace Analytical</u> <u>MN</u> <small>Laboratory Location</small>
	Sample Delivery: <u>January 14, 2022</u> <u>13:00</u> <small>DATE TIME</small>
Sample Container Details: <u>6</u> <u>30</u> <small>Volume (liters) Flow Controller (minutes)</small>	Delivery Method (FedEx, courier, etc.): <u>FedEx</u>

METEOROLOGICAL CONDITIONS FOR SAMPLING DAY

Ambient Temperature (°F): <u>33</u> <u>40</u> <small>Low High</small>	Sea Level Pressure (inches): <u>29.18</u>
Average Wind: <u>5</u> <u>NNW</u> <small>Direction Velocity (mph)</small>	Average Humidity (%): <u>70</u>

ADDITIONAL DETAILS

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

Problems or inconsistencies encountered during sampling:

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

Sample Number: <u>SV-2</u>	Analysis: <u>TO-15 (Chlorinated Short List)</u>
SUMMA ID Number: <u>2143</u>	Requested Turnaround Time: <u>Standard</u>
Regulator ID Number: <u>1689</u>	Sample Crew: <u>Ahmed Ali</u>



SOIL-VAPOR IMPLANT SAMPLE LOG

Project Name: <u>Green Tree Sub Slab Sampling</u>	Project Number: <u>PECO_2017-100</u>
Soil-Vapor Implant Installation Date: <u>January 13, 2022</u>	Project Address: <u>5131 Douglas Avenue Suite #D,</u>
Soil-Vapor Sample Date: <u>January 13, 2022</u>	<u>Racine, WI 53402</u>

SAMPLING INFORMATION

Soil-Vapor Implant Purge Air: <u>0.0</u> <u>2.5</u> <small>Stabilized PID Reading (PPM) Volume (liters)</small>	Sample Start Time: <u>January 13, 2022</u> <u>12:31</u> <small>DATE TIME</small>
Leak Test Method: <u>Shut-in Test</u> <u>Water Dam</u> <small>Sample Train Soil-Vapor Implant</small>	Sample End Time: <u>January 13, 2022</u> <u>1:12</u> <small>DATE TIME</small>
Shut-in Test: <u>29</u> <u>60</u> <small>Max. Vacuum (inches Hg) Test Duration (seconds)</small>	Canister Vacuum: <u>29</u> <u>2</u> <small>Initial (Inches Hg) Final (Inches Hg)</small>
Leak Test Notes: <u>Pass</u> <small>Shut-in Test</small>	Analysis Details: <u>Pace Analytical</u> <u>MN</u> <small>Laboratory Location</small>
	Sample Delivery: <u>January 14, 2022</u> <u>13:00</u> <small>DATE TIME</small>
Sample Container Details: <u>6</u> <u>30</u> <small>Volume (liters) Flow Controller (minutes)</small>	Delivery Method (FedEx, courier, etc.): <u>FedEx</u>

METEOROLOGICAL CONDITIONS FOR SAMPLING DAY

Ambient Temperature (°F): <u>33</u> <u>40</u> <small>Low High</small>	Sea Level Pressure (inches): <u>29.18</u>
Average Wind: <u>5</u> <u>NNW</u> <small>Direction Velocity (mph)</small>	Average Humidity (%): <u>70</u>

ADDITIONAL DETAILS

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

Problems or inconsistencies encountered during sampling:

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

Sample Number: <u>SV-3</u>	Analysis: <u>TO-15 (Chlorinated Short List)</u>
SUMMA ID Number: <u>936</u>	Requested Turnaround Time: <u>Standard</u>
Regulator ID Number: <u>1678</u>	Sample Crew: <u>Ahmed Ali</u>



SOIL-VAPOR IMPLANT SAMPLE LOG

Project Name: <u>Green Tree Sub Slab Sampling</u>	Project Number: <u>PECO_2017-100</u>
Soil-Vapor Implant Installation Date: <u>January 13, 2022</u>	Project Address: <u>5131 Douglas Avenue Suite #D,</u>
Soil-Vapor Sample Date: <u>January 13, 2022</u>	<u>Racine, WI 53402</u>

SAMPLING INFORMATION

Soil-Vapor Implant Purge Air: <u>0.0</u> <u>2.5</u> <small>Stabilized PID Reading (PPM) Volume (liters)</small>	Sample Start Time: <u>January 13, 2022</u> <u>3:08</u> <small>DATE TIME</small>
Leak Test Method: <u>Shut-in Test</u> <u>Water Dam</u> <small>Sample Train Soil-Vapor Implant</small>	Sample End Time: <u>January 13, 2022</u> <u>3:48</u> <small>DATE TIME</small>
Shut-in Test: <u>30</u> <u>60</u> <small>Max. Vacuum (inches Hg) Test Duration (seconds)</small>	Canister Vacuum: <u>30</u> <u>5</u> <small>Initial (Inches Hg) Final (Inches Hg)</small>
Leak Test Notes: <u>Pass</u> <small>Shut-in Test</small>	Analysis Details: <u>Pace Analytical</u> <u>MN</u> <small>Laboratory Location</small>
<u>Pass</u> <small>Water Dam</small>	Sample Delivery: <u>January 14, 2022</u> <u>13:00</u> <small>DATE TIME</small>
Sample Container Details: <u>6</u> <u>30</u> <small>Volume (liters) Flow Controller (minutes)</small>	Delivery Method (FedEx, courier, etc.): <u>FedEx</u>

METEOROLOGICAL CONDITIONS FOR SAMPLING DAY

Ambient Temperature (°F): <u>33</u> <u>40</u> <small>Low High</small>	Sea Level Pressure (inches): <u>29.18</u>
Average Wind: <u>5</u> <u>NNW</u> <small>Direction Velocity (mph)</small>	Average Humidity (%): <u>70</u>

ADDITIONAL DETAILS

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

Problems or inconsistencies encountered during sampling:

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

Sample Number: <u>SV-4</u>	Analysis: <u>TO-15 (Chlorinated Short List)</u>
SUMMA ID Number: <u>728</u>	Requested Turnaround Time: <u>Standard</u>
Regulator ID Number: <u>1716</u>	Sample Crew: <u>Ahmed Ali</u>



SOIL-VAPOR IMPLANT SAMPLE LOG

Project Name: <u>Green Tree Sub Slab Sampling</u>	Project Number: <u>PECO_2017-100</u>
Soil-Vapor Implant Installation Date: <u>January 13, 2022</u>	Project Address: <u>5131 Douglas Avenue Suite #D,</u>
Soil-Vapor Sample Date: <u>January 13, 2022</u>	<u>Racine, WI 53402</u>

SAMPLING INFORMATION

Soil-Vapor Implant Purge Air: <u>0.0</u> <u>2.5</u> <small>Stabilized PID Reading (PPM) Volume (liters)</small>	Sample Start Time: <u>January 13, 2022</u> <u>3:09</u> <small>DATE TIME</small>
Leak Test Method: <u>Shut-in Test</u> <u>Water Dam</u> <small>Sample Train Soil-Vapor Implant</small>	Sample End Time: <u>January 13, 2022</u> <u>3:49</u> <small>DATE TIME</small>
Shut-in Test: <u>29</u> <u>60</u> <small>Max. Vacuum (inches Hg) Test Duration (seconds)</small>	Canister Vacuum: <u>29</u> <u>4</u> <small>Initial (Inches Hg) Final (Inches Hg)</small>
Leak Test Notes: <u>Pass</u> <small>Shut-in Test</small>	Analysis Details: <u>Pace Analytical</u> <u>MN</u> <small>Laboratory Location</small>
<u>Pass</u> <small>Water Dam</small>	Sample Delivery: <u>January 14, 2022</u> <u>13:00</u> <small>DATE TIME</small>
Sample Container Details: <u>6</u> <u>30</u> <small>Volume (liters) Flow Controller (minutes)</small>	Delivery Method (FedEx, courier, etc.): <u>FedEx</u>

METEOROLOGICAL CONDITIONS FOR SAMPLING DAY

Ambient Temperature (°F): <u>33</u> <u>40</u> <small>Low High</small>	Sea Level Pressure (inches): <u>29.18</u>
Average Wind: <u>5</u> <u>NNW</u> <small>Direction Velocity (mph)</small>	Average Humidity (%): <u>70</u>

ADDITIONAL DETAILS

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

Problems or inconsistencies encountered during sampling:

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

Sample Number: <u>SV-5</u>	Analysis: <u>TO-15 (Chlorinated Short List)</u>
SUMMA ID Number: <u>2302</u>	Requested Turnaround Time: <u>Standard</u>
Regulator ID Number: <u>2833</u>	Sample Crew: <u>Ahmed Ali</u>



SOIL-VAPOR IMPLANT SAMPLE LOG

Project Name: <u>Green Tree Sub Slab Sampling</u>	Project Number: <u>PECO_2017-100</u>
Soil-Vapor Implant Installation Date: <u>January 13, 2022</u>	Project Address: <u>5131 Douglas Avenue Suite #D,</u>
Soil-Vapor Sample Date: <u>January 13, 2022</u>	<u>Racine, WI 53402</u>

SAMPLING INFORMATION

Soil-Vapor Implant Purge Air: <u>0.0</u> <u>2.5</u> <small>Stabilized PID Reading (PPM) Volume (liters)</small>	Sample Start Time: <u>January 13, 2022</u> <u>11:24</u> <small>DATE TIME</small>
Leak Test Method: <u>Shut-in Test</u> <u>Water Dam</u> <small>Sample Train Soil-Vapor Implant</small>	Sample End Time: <u>January 13, 2022</u> <u>12:00</u> <small>DATE TIME</small>
Shut-in Test: <u>29</u> <u>60</u> <small>Max. Vacuum (inches Hg) Test Duration (seconds)</small>	Canister Vacuum: <u>29</u> <u>5</u> <small>Initial (Inches Hg) Final (Inches Hg)</small>
Leak Test Notes: <u>Pass</u> <small>Shut-in Test</small>	Analysis Details: <u>Pace Analytical</u> <u>MN</u> <small>Laboratory Location</small>
<u>Pass</u> <small>Water Dam</small>	Sample Delivery: <u>January 14, 2022</u> <u>13:00</u> <small>DATE TIME</small>
Sample Container Details: <u>6</u> <u>30</u> <small>Volume (liters) Flow Controller (minutes)</small>	Delivery Method (FedEx, courier, etc.): <u>FedEx</u>

METEOROLOGICAL CONDITIONS FOR SAMPLING DAY

Ambient Temperature (°F): <u>33</u> <u>40</u> <small>Low High</small>	Sea Level Pressure (inches): <u>29.18</u>
Average Wind: <u>5</u> <u>NNW</u> <small>Direction Velocity (mph)</small>	Average Humidity (%): <u>70</u>

ADDITIONAL DETAILS

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

Problems or inconsistencies encountered during sampling:

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

Sample Number: <u>SV-6</u>	Analysis: <u>TO-15 (Chlorinated Short List)</u>
SUMMA ID Number: <u>2345</u>	Requested Turnaround Time: <u>Standard</u>
Regulator ID Number: <u>1562</u>	Sample Crew: <u>Ahmed Ali</u>



SOIL-VAPOR IMPLANT SAMPLE LOG

Project Name: <u>Green Tree Sub Slab Sampling</u>	Project Number: <u>PECO_2017-100</u>
Soil-Vapor Implant Installation Date: <u>January 13, 2022</u>	Project Address: <u>5131 Douglas Avenue Suite #D,</u>
Soil-Vapor Sample Date: <u>January 13, 2022</u>	<u>Racine, WI 53402</u>

SAMPLING INFORMATION

Soil-Vapor Implant Purge Air: <u>0.0</u> <u>2.5</u> <small>Stabilized PID Reading (PPM) Volume (liters)</small>	Sample Start Time: <u>January 13, 2022</u> <u>3:06</u> <small>DATE TIME</small>
Leak Test Method: <u>Shut-in Test</u> <u>Water Dam</u> <small>Sample Train Soil-Vapor Implant</small>	Sample End Time: <u>January 13, 2022</u> <u>3:43</u> <small>DATE TIME</small>
Shut-in Test: <u>29</u> <u>60</u> <small>Max. Vacuum (inches Hg) Test Duration (seconds)</small>	Canister Vacuum: <u>29</u> <u>3</u> <small>Initial (Inches Hg) Final (Inches Hg)</small>
Leak Test Notes: <u>Pass</u> <small>Shut-in Test</small>	Analysis Details: <u>Pace Analytical</u> <u>MN</u> <small>Laboratory Location</small>
<u>Pass</u> <small>Water Dam</small>	Sample Delivery: <u>January 14, 2022</u> <u>13:00</u> <small>DATE TIME</small>
Sample Container Details: <u>6</u> <u>30</u> <small>Volume (liters) Flow Controller (minutes)</small>	Delivery Method (FedEx, courier, etc.): <u>FedEx</u>

METEOROLOGICAL CONDITIONS FOR SAMPLING DAY

Ambient Temperature (°F): <u>33</u> <u>40</u> <small>Low High</small>	Sea Level Pressure (inches): <u>29.18</u>
Average Wind: <u>5</u> <u>NNW</u> <small>Direction Velocity (mph)</small>	Average Humidity (%): <u>70</u>

ADDITIONAL DETAILS

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

Problems or inconsistencies encountered during sampling:

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

Sample Number: <u>SV-07</u>	Analysis: <u>TO-15 (Chlorinated Short List)</u>
SUMMA ID Number: <u>2761</u>	Requested Turnaround Time: <u>Standard</u>
Regulator ID Number: <u>2712</u>	Sample Crew: <u>Ahmed Ali</u>



SOIL-VAPOR IMPLANT SAMPLE LOG

Project Name: <u>Green Tree Sub Slab Sampling</u>	Project Number: <u>PECO_2017-100</u>
Soil-Vapor Implant Installation Date: <u>January 13, 2022</u>	Project Address: <u>5131 Douglas Avenue Suite #D,</u>
Soil-Vapor Sample Date: <u>January 13, 2022</u>	<u>Racine, WI 53402</u>

SAMPLING INFORMATION

Soil-Vapor Implant Purge Air: <u>0.0</u> <u>2.5</u> <small>Stabilized PID Reading (PPM) Volume (liters)</small>	Sample Start Time: <u>January 13, 2022</u> <u>12:31</u> <small>DATE TIME</small>
Leak Test Method: <u>Shut-in Test</u> <u>Water Dam</u> <small>Sample Train Soil-Vapor Implant</small>	Sample End Time: <u>January 13, 2022</u> <u>1:04</u> <small>DATE TIME</small>
Shut-in Test: <u>30</u> <u>60</u> <small>Max. Vacuum (inches Hg) Test Duration (seconds)</small>	Canister Vacuum: <u>30</u> <u>5</u> <small>Initial (Inches Hg) Final (Inches Hg)</small>
Leak Test Notes: <u>Pass</u> <small>Shut-in Test</small>	Analysis Details: <u>Pace Analytical</u> <u>MN</u> <small>Laboratory Location</small>
	Sample Delivery: <u>January 14, 2022</u> <u>13:00</u> <small>DATE TIME</small>
Sample Container Details: <u>6</u> <u>30</u> <small>Volume (liters) Flow Controller (minutes)</small>	Delivery Method (FedEx, courier, etc.): <u>FedEx</u>

METEOROLOGICAL CONDITIONS FOR SAMPLING DAY

Ambient Temperature (°F): <u>33</u> <u>40</u> <small>Low High</small>	Sea Level Pressure (inches): <u>29.18</u>
Average Wind: <u>5</u> <u>NNW</u> <small>Direction Velocity (mph)</small>	Average Humidity (%): <u>70</u>

ADDITIONAL DETAILS

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

Problems or inconsistencies encountered during sampling:

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

Sample Number: <u>SV-08</u>	Analysis: <u>TO-15 (Chlorinated Short List)</u>
SUMMA ID Number: <u>3875</u>	Requested Turnaround Time: <u>Standard</u>
Regulator ID Number: <u>3074</u>	Sample Crew: <u>Ahmed Ali</u>



SOIL-VAPOR IMPLANT SAMPLE LOG

Project Name: <u>Green Tree Sub Slab Sampling</u>	Project Number: <u>PECO_2017-100</u>
Soil-Vapor Implant Installation Date: <u>January 13, 2022</u>	Project Address: <u>5131 Douglas Avenue Suite #D,</u>
Soil-Vapor Sample Date: <u>January 13, 2022</u>	<u>Racine, WI 53402</u>

SAMPLING INFORMATION

Soil-Vapor Implant Purge Air: <u>0.0</u> <u>2.5</u> <small>Stabilized PID Reading (PPM) Volume (liters)</small>	Sample Start Time: <u>January 13, 2022</u> <u>3:07</u> <small>DATE TIME</small>
Leak Test Method: <u>Shut-in Test</u> <u>Water Dam</u> <small>Sample Train Soil-Vapor Implant</small>	Sample End Time: <u>January 13, 2022</u> <u>3:52</u> <small>DATE TIME</small>
Shut-in Test: <u>30</u> <u>60</u> <small>Max. Vacuum (inches Hg) Test Duration (seconds)</small>	Canister Vacuum: <u>30</u> <u>2</u> <small>Initial (Inches Hg) Final (Inches Hg)</small>
Leak Test Notes: <u>Pass</u> <small>Shut-in Test</small>	Analysis Details: <u>Pace Analytical</u> <small>Laboratory Location</small>
<u>Pass</u> <small>Water Dam</small>	Sample Delivery: <u>January 14, 2022</u> <u>13:00</u> <small>DATE TIME</small>
Sample Container Details: <u>6</u> <u>30</u> <small>Volume (liters) Flow Controller (minutes)</small>	Delivery Method (FedEx, courier, etc.): <u>FedEx</u>

METEOROLOGICAL CONDITIONS FOR SAMPLING DAY

Ambient Temperature (°F): <u>33</u> <u>40</u> <small>Low High</small>	Sea Level Pressure (inches): <u>29.18</u>
Average Wind: <u>5</u> <u>NNW</u> <small>Direction Velocity (mph)</small>	Average Humidity (%): <u>70</u>

ADDITIONAL DETAILS

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

Problems or inconsistencies encountered during sampling:

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

Sample Number: <u>SV-09</u>	Analysis: <u>TO-15 (Chlorinated Short List)</u>
SUMMA ID Number: <u>2675</u>	Requested Turnaround Time: <u>Standard</u>
Regulator ID Number: <u>1640</u>	Sample Crew: <u>Ahmed Ali</u>



SOIL-VAPOR IMPLANT SAMPLE LOG

Project Name: <u>Green Tree Sub Slab Sampling</u>	Project Number: <u>PECO_2017-100</u>
Soil-Vapor Implant Installation Date: <u>January 13, 2022</u>	Project Address: <u>5131 Douglas Avenue Suite #D,</u>
Soil-Vapor Sample Date: <u>January 13, 2022</u>	<u>Racine, WI 53402</u>

SAMPLING INFORMATION

Soil-Vapor Implant Purge Air: <u>0.0</u> <u>2.5</u> <small>Stabilized PID Reading (PPM) Volume (liters)</small>	Sample Start Time: <u>January 13, 2022</u> <u>11:24</u> <small>DATE TIME</small>
Leak Test Method: <u>Shut-in Test</u> <u>Water Dam</u> <small>Sample Train Soil-Vapor Implant</small>	Sample End Time: <u>January 13, 2022</u> <u>12:00</u> <small>DATE TIME</small>
Shut-in Test: <u>29</u> <u>60</u> <small>Max. Vacuum (inches Hg) Test Duration (seconds)</small>	Canister Vacuum: <u>29</u> <u>4</u> <small>Initial (Inches Hg) Final (Inches Hg)</small>
Leak Test Notes: <u>Pass</u> <small>Shut-in Test</small>	Analysis Details: <u>Pace Analytical</u> <u>MN</u> <small>Laboratory Location</small>
<u>Pass</u> <small>Water Dam</small>	Sample Delivery: <u>January 14, 2022</u> <u>13:00</u> <small>DATE TIME</small>
Sample Container Details: <u>6</u> <u>30</u> <small>Volume (liters) Flow Controller (minutes)</small>	Delivery Method (FedEx, courier, etc.): <u>FedEx</u>

METEOROLOGICAL CONDITIONS FOR SAMPLING DAY

Ambient Temperature (°F): <u>33</u> <u>40</u> <small>Low High</small>	Sea Level Pressure (inches): <u>29.18</u>
Average Wind: <u>5</u> <u>NNW</u> <small>Direction Velocity (mph)</small>	Average Humidity (%): <u>70</u>

ADDITIONAL DETAILS

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

Problems or inconsistencies encountered during sampling:

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

Sample Number: <u>SV-10</u>	Analysis: <u>TO-15 (Chlorinated Short List)</u>
SUMMA ID Number: <u>4011</u>	Requested Turnaround Time: <u>Standard</u>
Regulator ID Number: <u>FC2845</u>	Sample Crew: <u>Ahmed Ali</u>



SOIL-VAPOR IMPLANT SAMPLE LOG

Project Name: <u>Green Tree Sub Slab Sampling</u>	Project Number: <u>PECO_2017-100</u>
Soil-Vapor Implant Installation Date: <u>January 13, 2022</u>	Project Address: <u>5131 Douglas Avenue Suite #D,</u>
Soil-Vapor Sample Date: <u>January 13, 2022</u>	<u>Racine, WI 53402</u>

SAMPLING INFORMATION

Soil-Vapor Implant Purge Air: <u>0.0</u> <u>2.5</u> <small>Stabilized PID Reading (PPM) Volume (liters)</small>	Sample Start Time: <u>January 13, 2022</u> <u>3:05</u> <small>DATE TIME</small>
Leak Test Method: <u>Shut-in Test</u> <u>Water Dam</u> <small>Sample Train Soil-Vapor Implant</small>	Sample End Time: <u>January 13, 2022</u> <u>3:42</u> <small>DATE TIME</small>
Shut-in Test: <u>29</u> <u>60</u> <small>Max. Vacuum (inches Hg) Test Duration (seconds)</small>	Canister Vacuum: <u>29</u> <u>4</u> <small>Initial (Inches Hg) Final (Inches Hg)</small>
Leak Test Notes: <u>Pass</u> <small>Shut-in Test</small>	Analysis Details: <u>Pace Analytical</u> <u>MN</u> <small>Laboratory Location</small>
<u>Pass</u> <small>Water Dam</small>	Sample Delivery: <u>January 14, 2022</u> <u>13:00</u> <small>DATE TIME</small>
Sample Container Details: <u>6</u> <u>30</u> <small>Volume (liters) Flow Controller (minutes)</small>	Delivery Method (FedEx, courier, etc.): <u>FedEx</u>

METEOROLOGICAL CONDITIONS FOR SAMPLING DAY

Ambient Temperature (°F): <u>33</u> <u>40</u> <small>Low High</small>	Sea Level Pressure (inches): <u>29.18</u>
Average Wind: <u>5</u> <u>NNW</u> <small>Direction Velocity (mph)</small>	Average Humidity (%): <u>70</u>

ADDITIONAL DETAILS

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

Problems or inconsistencies encountered during sampling:

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

Sample Number: <u>SV-11</u>	Analysis: <u>TO-15 (Chlorinated Short List)</u>
SUMMA ID Number: <u>505</u>	Requested Turnaround Time: <u>Standard</u>
Regulator ID Number: <u>3166</u>	Sample Crew: <u>Ahmed Ali</u>



SOIL-VAPOR IMPLANT SAMPLE LOG

Project Name: <u>Green Tree Sub Slab Sampling</u>	Project Number: <u>PECO_2017-100</u>
Soil-Vapor Implant Installation Date: <u>January 13, 2022</u>	Project Address: <u>5131 Douglas Avenue Suite #D,</u>
Soil-Vapor Sample Date: <u>January 13, 2022</u>	<u>Racine, WI 53402</u>

SAMPLING INFORMATION

Soil-Vapor Implant Purge Air: <u>0.0</u> <u>2.5</u> <small>Stabilized PID Reading (PPM) Volume (liters)</small>	Sample Start Time: <u>January 13, 2022</u> <u>11:24</u> <small>DATE TIME</small>
Leak Test Method: <u>Shut-in Test</u> <u>Water Dam</u> <small>Sample Train Soil-Vapor Implant</small>	Sample End Time: <u>January 13, 2022</u> <u>12:00</u> <small>DATE TIME</small>
Shut-in Test: <u>29</u> <u>60</u> <small>Max. Vacuum (inches Hg) Test Duration (seconds)</small>	Canister Vacuum: <u>29</u> <u>5</u> <small>Initial (Inches Hg) Final (Inches Hg)</small>
Leak Test Notes: <u>Pass</u> <small>Shut-in Test</small>	Analysis Details: <u>Pace Analytical</u> <u>MN</u> <small>Laboratory Location</small>
<u>Pass</u> <small>Water Dam</small>	Sample Delivery: <u>January 14, 2022</u> <u>13:00</u> <small>DATE TIME</small>
Sample Container Details: <u>6</u> <u>30</u> <small>Volume (liters) Flow Controller (minutes)</small>	Delivery Method (FedEx, courier, etc.): <u>FedEx</u>

METEOROLOGICAL CONDITIONS FOR SAMPLING DAY

Ambient Temperature (°F): <u>33</u> <u>40</u> <small>Low High</small>	Sea Level Pressure (inches): <u>29.18</u>
Average Wind: <u>5</u> <u>NNW</u> <small>Direction Velocity (mph)</small>	Average Humidity (%): <u>70</u>

ADDITIONAL DETAILS

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

Problems or inconsistencies encountered during sampling:

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

Sample Number: <u>SV-13</u>	Analysis: <u>TO-15 (Chlorinated Short List)</u>
SUMMA ID Number: <u>2185</u>	Requested Turnaround Time: <u>Standard</u>
Regulator ID Number: <u>FC2996</u>	Sample Crew: <u>Ahmed Ali</u>



SOIL-VAPOR IMPLANT SAMPLE LOG

Project Name: <u>Green Tree Sub Slab Sampling</u>	Project Number: <u>PECO_2017-100</u>
Soil-Vapor Implant Installation Date: <u>January 13, 2022</u>	Project Address: <u>5131 Douglas Avenue Suite #D,</u>
Soil-Vapor Sample Date: <u>January 13, 2022</u>	<u>Racine, WI 53402</u>

SAMPLING INFORMATION

Soil-Vapor Implant Purge Air: <u>0.0</u> <u>2.5</u> <small>Stabilized PID Reading (PPM) Volume (liters)</small>	Sample Start Time: <u>January 13, 2022</u> <u>3:05</u> <small>DATE TIME</small>
Leak Test Method: <u>Shut-in Test</u> <u>Water Dam</u> <small>Sample Train Soil-Vapor Implant</small>	Sample End Time: <u>January 13, 2022</u> <u>3:42</u> <small>DATE TIME</small>
Shut-in Test: <u>29</u> <u>60</u> <small>Max. Vacuum (inches Hg) Test Duration (seconds)</small>	Canister Vacuum: <u>29</u> <u>4</u> <small>Initial (Inches Hg) Final (Inches Hg)</small>
Leak Test Notes: <u>Pass</u> <small>Shut-in Test</small>	Analysis Details: <u>Pace Analytical</u> <u>MN</u> <small>Laboratory Location</small>
<u>Pass</u> <small>Water Dam</small>	Sample Delivery: <u>January 14, 2022</u> <u>13:00</u> <small>DATE TIME</small>
Sample Container Details: <u>6</u> <u>30</u> <small>Volume (liters) Flow Controller (minutes)</small>	Delivery Method (FedEx, courier, etc.): <u>FedEx</u>

METEOROLOGICAL CONDITIONS FOR SAMPLING DAY

Ambient Temperature (°F): <u>33</u> <u>40</u> <small>Low High</small>	Sea Level Pressure (inches): <u>29.18</u>
Average Wind: <u>5</u> <u>NNW</u> <small>Direction Velocity (mph)</small>	Average Humidity (%): <u>70</u>

ADDITIONAL DETAILS

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

Problems or inconsistencies encountered during sampling:

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

Sample Number: <u>SV-14</u>	Analysis: <u>TO-15 (Chlorinated Short List)</u>
SUMMA ID Number: <u>679</u>	Requested Turnaround Time: <u>Standard</u>
Regulator ID Number: <u>1240</u>	Sample Crew: <u>Ahmed Ali</u>



INDOOR AIR SAMPLE LOG

Project Name: <u>Green Tree Sub Slab Sampling</u>	Project Number: <u>PECO_2017-100</u>
Soil-Vapor Implant Installation Date: <u>January 13, 2022</u>	Project Address: <u>5131 Douglas Avenue Suite #D,</u>
Soil-Vapor Sample Date: <u>January 13, 2022</u>	<u>Racine, WI 53402</u>

SAMPLING INFORMATION

Soil-Vapor Implant Purge Air: <u>0.0</u> <u>2.5</u> <small>Stabilized PID Reading (PPM) Volume (liters)</small>	Sample Start Time: <u>January 13, 2022</u> <u>3:08</u> <small>DATE TIME</small>
Leak Test Method: <u>Shut-in Test</u> <u>NA</u> <small>Sample Train Soil-Vapor Implant</small>	Sample End Time: <u>January 13, 2022</u> <u>3:43</u> <small>DATE TIME</small>
Shut-in Test: <u>30</u> <u>60</u> <small>Max. Vacuum (inches Hg) Test Duration (seconds)</small>	Canister Vacuum: <u>30</u> <u>5</u> <small>Initial (Inches Hg) Final (Inches Hg)</small>
Leak Test Notes: <u>PASS</u> <small>Shut-in Test</small>	Analysis Details: <u>Pace Analytical</u> <u>MN</u> <small>Laboratory Location</small>
<u>NA</u> <small>Water Dam</small>	Sample Delivery: <u>January 14, 2022</u> <u>13:00</u> <small>DATE TIME</small>
Sample Container Details: <u>6</u> <u>30</u> <small>Volume (liters) Flow Controller (minutes)</small>	Delivery Method (FedEx, courier, etc.): <u>FedEx</u>

METEOROLOGICAL CONDITIONS FOR SAMPLING DAY

Ambient Temperature (°F): <u>33</u> <u>40</u> <small>Low High</small>	Sea Level Pressure (inches): <u>29.18</u>
Average Wind: <u>5</u> <u>NNW</u> <small>Direction Velocity (mph)</small>	Average Humidity (%): <u>70</u>

ADDITIONAL DETAILS

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

Problems or inconsistencies encountered during sampling:

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

Sample Number: <u>IA-1</u>	Analysis: <u>TO-15 (Chlorinated Short List)</u>
SUMMA ID Number: <u>3089</u>	Requested Turnaround Time: <u>Standard</u>
Regulator ID Number: <u>2764</u>	Sample Crew: <u>Ahmed Ali</u>



INDOOR AIR SAMPLE LOG

Project Name: <u>Green Tree Sub Slab Sampling</u>	Project Number: <u>PECO_2017-100</u>
Soil-Vapor Implant Installation Date: <u>January 13, 2022</u>	Project Address: <u>5131 Douglas Avenue Suite #D,</u>
Soil-Vapor Sample Date: <u>January 13, 2022</u>	<u>Racine, WI 53402</u>

SAMPLING INFORMATION

Soil-Vapor Implant Purge Air: <u>NA</u> <u>NA</u> <small>Stabilized PID Reading (PPM) Volume (liters)</small>	Sample Start Time: <u>January 13, 2022</u> <u>12:36</u> <small>DATE TIME</small>
Leak Test Method: <u>Shut-in Test</u> <u>NA</u> <small>Sample Train Soil-Vapor Implant</small>	Sample End Time: <u>January 13, 2022</u> <u>1:13</u> <small>DATE TIME</small>
Shut-in Test: <u>29</u> <u>60</u> <small>Max. Vacuum (inches Hg) Test Duration (seconds)</small>	Canister Vacuum: <u>29</u> <u>4</u> <small>Initial (Inches Hg) Final (Inches Hg)</small>
Leak Test Notes: <u>PASS</u> <small>Shut-in Test</small>	Analysis Details: <u>Pace Analytical</u> <u>MN</u> <small>Laboratory Location</small>
<u>NA</u> <small>Water Dam</small>	Sample Delivery: <u>January 14, 2022</u> <u>13:00</u> <small>DATE TIME</small>
Sample Container Details: <u>6</u> <u>30</u> <small>Volume (liters) Flow Controller (minutes)</small>	Delivery Method (FedEx, courier, etc.): <u>FedEx</u>

METEOROLOGICAL CONDITIONS FOR SAMPLING DAY

Ambient Temperature (°F): <u>33</u> <u>40</u> <small>Low High</small>	Sea Level Pressure (inches): <u>29.18</u>
Average Wind: <u>5</u> <u>NNW</u> <small>Direction Velocity (mph)</small>	Average Humidity (%): <u>70</u>

ADDITIONAL DETAILS

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

Problems or inconsistencies encountered during sampling:

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

Sample Number: <u>IA-2</u>	Analysis: <u>TO-15 (Chlorinated Short List)</u>
SUMMA ID Number: <u>227</u>	Requested Turnaround Time: <u>Standard</u>
Regulator ID Number: <u>1216</u>	Sample Crew: <u>Ahmed Ali</u>



DRAIN SAMPLE LOG

Project Name: <u>Green Tree Sub Slab Sampling</u>	Project Number: <u>PECO_2017-100</u>
Soil-Vapor Implant Installation Date: <u>January 13, 2022</u>	Project Address: <u>5131 Douglas Avenue Suite #D,</u>
Soil-Vapor Sample Date: <u>January 13, 2022</u>	<u>Racine, WI 53402</u>

SAMPLING INFORMATION

Soil-Vapor Implant Purge Air: <u>0.0</u> <u>2.5</u> <small>Stabilized PID Reading (PPM) Volume (liters)</small>	Sample Start Time: <u>January 13, 2022</u> <u>12:53</u> <small>DATE TIME</small>
Leak Test Method: <u>Shut-in Test</u> <u>NA</u> <small>Sample Train Soil-Vapor Implant</small>	Sample End Time: <u>January 13, 2022</u> <u>2:09</u> <small>DATE TIME</small>
Shut-in Test: <u>29</u> <u>60</u> <small>Max. Vacuum (inches Hg) Test Duration (seconds)</small>	Canister Vacuum: <u>29</u> <u>2</u> <small>Initial (Inches Hg) Final (Inches Hg)</small>
Leak Test Notes: <u>PASS</u> <small>Shut-in Test</small>	Analysis Details: <u>Pace Analytical</u> <u>MN</u> <small>Laboratory Location</small>
<u>NA</u> <small>Water Dam</small>	Sample Delivery: <u>January 14, 2022</u> <u>13:00</u> <small>DATE TIME</small>
Sample Container Details: <u>6</u> <u>30</u> <small>Volume (liters) Flow Controller (minutes)</small>	Delivery Method (FedEx, courier, etc.): <u>FedEx</u>

METEOROLOGICAL CONDITIONS FOR SAMPLING DAY

Ambient Temperature (°F): <u>33</u> <u>40</u> <small>Low High</small>	Sea Level Pressure (inches): <u>29.18</u>
Average Wind: <u>5</u> <u>NNW</u> <small>Direction Velocity (mph)</small>	Average Humidity (%): <u>70</u>

ADDITIONAL DETAILS

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

Problems or inconsistencies encountered during sampling:

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

Sample Number: <u>BD-1</u>	Analysis: <u>TO-15 (Chlorinated Short List)</u>
SUMMA ID Number: <u>33</u>	Requested Turnaround Time: <u>Standard</u>
Regulator ID Number: <u>1151</u>	Sample Crew: <u>Ahmed Ali</u>



INDOOR AIR SUMMA® CANISTER VACUUM LOG

CLIENT INFO	Name:	
	Address:	
	City, State, Zip:	

SITE INFO	Name:	GreenTree Cleaners and Vacant, Adj, Space (504)
	Address:	5131 Douglas Avenue
	City, State, Zip:	Racine, WI 53402

Sample Collection Date:	5/5/22
Project #:	PECO_2017-100
Apex Manager / Phone #:	Jane Allan
Email Results To:	Jane.allan@apexcos.com & tim.stauder@apexcos.com

Lab / Canister Supplier:	STAT Analysis Corporation
Lab Delivery Method:	FedEx, Ground Service
Analysis:	TO-15
Turnaround Time:	Standard

Meteorological Conditions Day of Sampling

Ambient Temperature (Low):	44 °F	Ambient Temperature (High):	50 °F	Average Humidity:	69 %
Barometric Pressure (Low):	40.1 inches Hg	Barometric Pressure (High):	40.2 inches Hg	Rainfall in previous 24 hours?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Average Wind Direction:		Average Wind Velocity:	miles per hour	If rainfall, amount:	inches

Indoor Conditions Day of Sampling

Temperature:	°F	HVAC Operating?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Window/Doors Closed?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Summary of pertinent findings from building survey and occupant interview:

Building wasn't surveyed and occupants of dry cleaner store weren't interviewed, adjacent space was vacant and no one present to talk to.

Problems or inconsistencies encountered during sampling:

No problems encountered

Collected by (print): Tim Stauder, MSPH, CIH, Apex Program Manager	Collected by (signature):
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Sample ID	Canister ID	Regulator ID	Location	Start Time	Initial Vacuum (inches Hg)	Stop Time	Final Vacuum (inches Hg)	Malfunctions, Maintenance or Corrective Actions
1 60454	60454	7306969	GreenTree Cleaners	08:10	- 30	16:05	- 0.5	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
								Yes <input type="checkbox"/> No <input type="checkbox"/>
2 60297	60297	7306973	Vacant tenant space immediately adj. and north of GreenTree Cleaners	08:26	- 26	16:14	0	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
								Yes <input type="checkbox"/> No <input type="checkbox"/>
								Yes <input type="checkbox"/> No <input type="checkbox"/>

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

APPENDIX B
Laboratory Reports

February 01, 2022

Steve Newlin
Apex Companies
300 S. Wacker
Chicago, IL 60606

RE: Project: PECO-2017-100 GREENTREE SAMPLI
Pace Project No.: 10594745

Dear Steve Newlin:

Enclosed are the analytical results for sample(s) received by the laboratory on January 18, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Carolynne Trout
carolynne.trout@pacelabs.com
1(612)607-6351
Project Manager

Enclosures

cc: Ahmed Ali, Apex Companies LLC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: PECO-2017-100 GREENTREE SAMPLI

Pace Project No.: 10594745

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414

1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab

A2LA Certification #: 2926.01*

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009*

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014*

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137

Florida Certification #: E87605*

Georgia Certification #: 959

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: AI-03086*

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064*

Maryland Certification #: 322

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137*

Minnesota Dept of Ag Approval: via MN 027-053-137

Minnesota Petrofund Registration #: 1240*

Mississippi Certification #: MN00064

Missouri Certification #: 10100

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081*

New Jersey Certification #: MN002

New York Certification #: 11647*

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification (1700) #: CL101

Ohio VAP Certification (1800) #: CL110*

Oklahoma Certification #: 9507*

Oregon Primary Certification #: MN300001

Oregon Secondary Certification #: MN200001*

Pennsylvania Certification #: 68-00563*

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192*

Utah Certification #: MN00064*

Vermont Certification #: VT-027053137

Virginia Certification #: 460163*

Washington Certification #: C486*

West Virginia DEP Certification #: 382

West Virginia DW Certification #: 9952 C

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

USDA Permit #: P330-19-00208

Please Note: Applicable air certifications are denoted with an asterisk ().

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: PECO-2017-100 GREENTREE SAMPLI

Pace Project No.: 10594745

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10594745001	SV-10	Air	01/13/22 12:00	01/18/22 12:38
10594745002	SV-6	Air	01/13/22 12:00	01/18/22 12:38
10594745003	SV-13	Air	01/13/22 12:00	01/18/22 12:38
10594745004	SV-2	Air	01/13/22 13:12	01/18/22 12:38
10594745005	SV-3	Air	01/13/22 13:12	01/18/22 12:38
10594745006	SV-8	Air	01/13/22 13:04	01/18/22 12:38
10594745007	IA-2	Air	01/13/22 13:13	01/18/22 12:38
10594745008	BD-1	Air	01/13/22 14:09	01/18/22 12:38
10594745009	SV-7	Air	01/13/22 15:43	01/18/22 12:38
10594745010	SV-11	Air	01/13/22 15:42	01/18/22 12:38
10594745011	SV-14	Air	01/13/22 15:42	01/18/22 12:38
10594745012	SV-9	Air	01/13/22 15:52	01/18/22 12:38
10594745013	SV-4	Air	01/13/22 15:48	01/18/22 12:38
10594745014	IA-1	Air	01/13/22 15:43	01/18/22 12:38
10594745015	SV-5	Air	01/13/22 15:49	01/18/22 12:38
10594745016	UNUSED PACE0081	Air		01/18/22 12:38

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: PECO-2017-100 GREENTREE SAMPLI

Pace Project No.: 10594745

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10594745001	SV-10	TO-15	SW	5	PASI-M
10594745002	SV-6	TO-15	SW	5	PASI-M
10594745003	SV-13	TO-15	SW	5	PASI-M
10594745004	SV-2	TO-15	SW	5	PASI-M
10594745005	SV-3	TO-15	SW	5	PASI-M
10594745006	SV-8	TO-15	SW	5	PASI-M
10594745007	IA-2	TO-15	SW	5	PASI-M
10594745008	BD-1	TO-15	SW	5	PASI-M
10594745009	SV-7	TO-15	SW	5	PASI-M
10594745010	SV-11	TO-15	SW	5	PASI-M
10594745011	SV-14	TO-15	SW	5	PASI-M
10594745012	SV-9	TO-15	SW	5	PASI-M
10594745013	SV-4	TO-15	SW	5	PASI-M
10594745014	IA-1	TO-15	SW	5	PASI-M
10594745015	SV-5	TO-15	SW	5	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PECO-2017-100 GREENTREE SAMPLI

Pace Project No.: 10594745

Sample: SV-10									
Lab ID: 10594745001									
Collected: 01/13/22 12:00									
Received: 01/18/22 12:38									
Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
cis-1,2-Dichloroethene	4.2	ug/m3	1.2	0.30	1.52		01/31/22 18:31	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/m3	1.2	0.26	1.52		01/31/22 18:31	156-60-5	
Tetrachloroethene	83.6	ug/m3	1.0	0.44	1.52		01/31/22 18:31	127-18-4	
Trichloroethene	4.7	ug/m3	0.83	0.30	1.52		01/31/22 18:31	79-01-6	
Vinyl chloride	<0.13	ug/m3	0.40	0.13	1.52		01/31/22 18:31	75-01-4	

Sample: SV-6									
Lab ID: 10594745002									
Collected: 01/13/22 12:00									
Received: 01/18/22 12:38									
Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
cis-1,2-Dichloroethene	3.4	ug/m3	1.2	0.30	1.52		01/31/22 19:05	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/m3	1.2	0.26	1.52		01/31/22 19:05	156-60-5	
Tetrachloroethene	120	ug/m3	1.0	0.44	1.52		01/31/22 19:05	127-18-4	
Trichloroethene	8.4	ug/m3	0.83	0.30	1.52		01/31/22 19:05	79-01-6	
Vinyl chloride	<0.13	ug/m3	0.40	0.13	1.52		01/31/22 19:05	75-01-4	

Sample: SV-13									
Lab ID: 10594745003									
Collected: 01/13/22 12:00									
Received: 01/18/22 12:38									
Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
cis-1,2-Dichloroethene	<0.28	ug/m3	1.2	0.28	1.46		01/31/22 19:39	156-59-2	
trans-1,2-Dichloroethene	<0.25	ug/m3	1.2	0.25	1.46		01/31/22 19:39	156-60-5	
Tetrachloroethene	19.7	ug/m3	1.0	0.43	1.46		01/31/22 19:39	127-18-4	
Trichloroethene	<0.29	ug/m3	0.80	0.29	1.46		01/31/22 19:39	79-01-6	
Vinyl chloride	<0.13	ug/m3	0.38	0.13	1.46		01/31/22 19:39	75-01-4	

Sample: SV-2									
Lab ID: 10594745004									
Collected: 01/13/22 13:12									
Received: 01/18/22 12:38									
Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
cis-1,2-Dichloroethene	<0.27	ug/m3	1.1	0.27	1.41		01/31/22 20:13	156-59-2	
trans-1,2-Dichloroethene	<0.24	ug/m3	1.1	0.24	1.41		01/31/22 20:13	156-60-5	
Tetrachloroethene	8.3	ug/m3	0.97	0.41	1.41		01/31/22 20:13	127-18-4	
Trichloroethene	<0.28	ug/m3	0.77	0.28	1.41		01/31/22 20:13	79-01-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PECO-2017-100 GREENTREE SAMPLI

Pace Project No.: 10594745

Sample: SV-2		Lab ID: 10594745004	Collected: 01/13/22 13:12	Received: 01/18/22 12:38	Matrix: Air				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Vinyl chloride	<0.12	ug/m3	0.37	0.12	1.41		01/31/22 20:13	75-01-4	

Sample: SV-3		Lab ID: 10594745005	Collected: 01/13/22 13:12	Received: 01/18/22 12:38	Matrix: Air				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
cis-1,2-Dichloroethene	<0.28	ug/m3	1.2	0.28	1.44		01/31/22 20:46	156-59-2	
trans-1,2-Dichloroethene	<0.24	ug/m3	1.2	0.24	1.44		01/31/22 20:46	156-60-5	
Tetrachloroethene	178	ug/m3	0.99	0.42	1.44		01/31/22 20:46	127-18-4	
Trichloroethene	5.6	ug/m3	0.79	0.28	1.44		01/31/22 20:46	79-01-6	
Vinyl chloride	<0.12	ug/m3	0.37	0.12	1.44		01/31/22 20:46	75-01-4	

Sample: SV-8		Lab ID: 10594745006	Collected: 01/13/22 13:04	Received: 01/18/22 12:38	Matrix: Air				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
cis-1,2-Dichloroethene	<0.31	ug/m3	1.3	0.31	1.61		01/31/22 21:20	156-59-2	
trans-1,2-Dichloroethene	<0.27	ug/m3	1.3	0.27	1.61		01/31/22 21:20	156-60-5	
Tetrachloroethene	5.9	ug/m3	1.1	0.47	1.61		01/31/22 21:20	127-18-4	
Trichloroethene	<0.32	ug/m3	0.88	0.32	1.61		01/31/22 21:20	79-01-6	
Vinyl chloride	<0.14	ug/m3	0.42	0.14	1.61		01/31/22 21:20	75-01-4	

Sample: IA-2		Lab ID: 10594745007	Collected: 01/13/22 13:13	Received: 01/18/22 12:38	Matrix: Air				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
cis-1,2-Dichloroethene	<0.30	ug/m3	1.2	0.30	1.52		01/31/22 21:54	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/m3	1.2	0.26	1.52		01/31/22 21:54	156-60-5	
Tetrachloroethene	11.9	ug/m3	1.0	0.44	1.52		01/31/22 21:54	127-18-4	
Trichloroethene	<0.30	ug/m3	0.83	0.30	1.52		01/31/22 21:54	79-01-6	
Vinyl chloride	<0.13	ug/m3	0.40	0.13	1.52		01/31/22 21:54	75-01-4	

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ANALYTICAL RESULTS

Project: PECO-2017-100 GREENTREE SAMPLI

Pace Project No.: 10594745

Sample: BD-1 Lab ID: 10594745008 Collected: 01/13/22 14:09 Received: 01/18/22 12:38 Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
cis-1,2-Dichloroethene	<0.30	ug/m3	1.2	0.30	1.52		01/31/22 22:28	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/m3	1.2	0.26	1.52		01/31/22 22:28	156-60-5	
Tetrachloroethene	70.5	ug/m3	1.0	0.44	1.52		01/31/22 22:28	127-18-4	
Trichloroethene	<0.30	ug/m3	0.83	0.30	1.52		01/31/22 22:28	79-01-6	
Vinyl chloride	<0.13	ug/m3	0.40	0.13	1.52		01/31/22 22:28	75-01-4	

Sample: SV-7 Lab ID: 10594745009 Collected: 01/13/22 15:43 Received: 01/18/22 12:38 Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
cis-1,2-Dichloroethene	2.6	ug/m3	1.2	0.28	1.46		01/31/22 23:02	156-59-2	
trans-1,2-Dichloroethene	<0.25	ug/m3	1.2	0.25	1.46		01/31/22 23:02	156-60-5	
Tetrachloroethene	48.7	ug/m3	1.0	0.43	1.46		01/31/22 23:02	127-18-4	
Trichloroethene	1.5	ug/m3	0.80	0.29	1.46		01/31/22 23:02	79-01-6	
Vinyl chloride	<0.13	ug/m3	0.38	0.13	1.46		01/31/22 23:02	75-01-4	

Sample: SV-11 Lab ID: 10594745010 Collected: 01/13/22 15:42 Received: 01/18/22 12:38 Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
cis-1,2-Dichloroethene	6.8	ug/m3	1.2	0.28	1.46		01/31/22 23:35	156-59-2	
trans-1,2-Dichloroethene	<0.25	ug/m3	1.2	0.25	1.46		01/31/22 23:35	156-60-5	
Tetrachloroethene	342	ug/m3	1.0	0.43	1.46		01/31/22 23:35	127-18-4	
Trichloroethene	16.7	ug/m3	0.80	0.29	1.46		01/31/22 23:35	79-01-6	
Vinyl chloride	<0.13	ug/m3	0.38	0.13	1.46		01/31/22 23:35	75-01-4	

Sample: SV-14 Lab ID: 10594745011 Collected: 01/13/22 15:42 Received: 01/18/22 12:38 Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
cis-1,2-Dichloroethene	6.6	ug/m3	1.2	0.28	1.46		02/01/22 00:43	156-59-2	
trans-1,2-Dichloroethene	<0.25	ug/m3	1.2	0.25	1.46		02/01/22 00:43	156-60-5	
Tetrachloroethene	165	ug/m3	1.0	0.43	1.46		02/01/22 00:43	127-18-4	
Trichloroethene	10.3	ug/m3	0.80	0.29	1.46		02/01/22 00:43	79-01-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PECO-2017-100 GREENTREE SAMPLI

Pace Project No.: 10594745

Sample: SV-14 **Lab ID: 10594745011** Collected: 01/13/22 15:42 Received: 01/18/22 12:38 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15 Pace Analytical Services - Minneapolis									
Vinyl chloride	<0.13	ug/m3	0.38	0.13	1.46		02/01/22 00:43	75-01-4	

Sample: SV-9 **Lab ID: 10594745012** Collected: 01/13/22 15:52 Received: 01/18/22 12:38 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15 Pace Analytical Services - Minneapolis									
cis-1,2-Dichloroethene	<0.26	ug/m3	1.1	0.26	1.34		02/01/22 01:17	156-59-2	
trans-1,2-Dichloroethene	<0.23	ug/m3	1.1	0.23	1.34		02/01/22 01:17	156-60-5	
Tetrachloroethene	2.6	ug/m3	0.92	0.39	1.34		02/01/22 01:17	127-18-4	
Trichloroethene	<0.26	ug/m3	0.73	0.26	1.34		02/01/22 01:17	79-01-6	
Vinyl chloride	<0.12	ug/m3	0.35	0.12	1.34		02/01/22 01:17	75-01-4	

Sample: SV-4 **Lab ID: 10594745013** Collected: 01/13/22 15:48 Received: 01/18/22 12:38 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15 Pace Analytical Services - Minneapolis									
cis-1,2-Dichloroethene	0.49J	ug/m3	1.1	0.27	1.41		02/01/22 01:51	156-59-2	
trans-1,2-Dichloroethene	<0.24	ug/m3	1.1	0.24	1.41		02/01/22 01:51	156-60-5	
Tetrachloroethene	126	ug/m3	0.97	0.41	1.41		02/01/22 01:51	127-18-4	
Trichloroethene	4.5	ug/m3	0.77	0.28	1.41		02/01/22 01:51	79-01-6	
Vinyl chloride	<0.12	ug/m3	0.37	0.12	1.41		02/01/22 01:51	75-01-4	

Sample: IA-1 **Lab ID: 10594745014** Collected: 01/13/22 15:43 Received: 01/18/22 12:38 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15 Pace Analytical Services - Minneapolis									
cis-1,2-Dichloroethene	<0.31	ug/m3	1.3	0.31	1.58		01/31/22 17:57	156-59-2	
trans-1,2-Dichloroethene	<0.27	ug/m3	1.3	0.27	1.58		01/31/22 17:57	156-60-5	
Tetrachloroethene	10.3	ug/m3	1.1	0.46	1.58		01/31/22 17:57	127-18-4	
Trichloroethene	<0.31	ug/m3	0.86	0.31	1.58		01/31/22 17:57	79-01-6	
Vinyl chloride	<0.14	ug/m3	0.41	0.14	1.58		01/31/22 17:57	75-01-4	

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ANALYTICAL RESULTS

Project: PECO-2017-100 GREENTREE SAMPLI

Pace Project No.: 10594745

Sample: SV-5 **Lab ID: 10594745015** Collected: 01/13/22 15:49 Received: 01/18/22 12:38 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
cis-1,2-Dichloroethene	3.7	ug/m3	1.1	0.27	1.41		02/01/22 11:58	156-59-2	
trans-1,2-Dichloroethene	<0.24	ug/m3	1.1	0.24	1.41		02/01/22 11:58	156-60-5	
Tetrachloroethene	82.0	ug/m3	0.97	0.41	1.41		02/01/22 11:58	127-18-4	
Trichloroethene	4.4	ug/m3	0.77	0.28	1.41		02/01/22 11:58	79-01-6	
Vinyl chloride	<0.12	ug/m3	0.37	0.12	1.41		02/01/22 11:58	75-01-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PECO-2017-100 GREENTREE SAMPLI

Pace Project No.: 10594745

QC Batch:	796299	Analysis Method:	TO-15
QC Batch Method:	TO-15	Analysis Description:	TO15 MSV AIR Low Level
		Laboratory:	Pace Analytical Services - Minneapolis
Associated Lab Samples:	10594745001, 10594745002, 10594745003, 10594745004, 10594745005, 10594745006, 10594745007, 10594745008, 10594745009, 10594745010, 10594745011, 10594745012, 10594745013, 10594745014		

METHOD BLANK:	4233549	Matrix:	Air
Associated Lab Samples:	10594745001, 10594745002, 10594745003, 10594745004, 10594745005, 10594745006, 10594745007, 10594745008, 10594745009, 10594745010, 10594745011, 10594745012, 10594745013, 10594745014		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.20	0.81	01/31/22 13:34	
Tetrachloroethene	ug/m3	<0.29	0.69	01/31/22 13:34	
trans-1,2-Dichloroethene	ug/m3	<0.17	0.81	01/31/22 13:34	
Trichloroethene	ug/m3	<0.20	0.55	01/31/22 13:34	
Vinyl chloride	ug/m3	<0.087	0.26	01/31/22 13:34	

LABORATORY CONTROL SAMPLE: 4233550

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	43.4	46.4	107	70-136	
Tetrachloroethene	ug/m3	73.4	79.6	108	70-134	
trans-1,2-Dichloroethene	ug/m3	43.6	38.9	89	70-134	
Trichloroethene	ug/m3	58.4	61.5	105	70-134	
Vinyl chloride	ug/m3	28	24.1	86	70-132	

SAMPLE DUPLICATE: 4233922

Parameter	Units	10594745010 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	ug/m3	6.8	6.8	1	25	
Tetrachloroethene	ug/m3	342	337	2	25	
trans-1,2-Dichloroethene	ug/m3	<0.25	0.43J		25	
Trichloroethene	ug/m3	16.7	16.2	3	25	
Vinyl chloride	ug/m3	<0.13	<0.13		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: PECO-2017-100 GREENTREE SAMPLI

Pace Project No.: 10594745

QC Batch: 796437

Analysis Method: TO-15

QC Batch Method: TO-15

Analysis Description: TO15 MSV AIR Low Level

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10594745015

METHOD BLANK: 4233960

Matrix: Air

Associated Lab Samples: 10594745015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.098	0.40	02/01/22 11:20	
Tetrachloroethene	ug/m3	<0.15	0.34	02/01/22 11:20	
trans-1,2-Dichloroethene	ug/m3	<0.084	0.40	02/01/22 11:20	
Trichloroethene	ug/m3	<0.098	0.27	02/01/22 11:20	
Vinyl chloride	ug/m3	<0.043	0.13	02/01/22 11:20	

LABORATORY CONTROL SAMPLE: 4233961

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	43.4	49.2	113	70-136	
Tetrachloroethene	ug/m3	73.4	79.4	108	70-134	
trans-1,2-Dichloroethene	ug/m3	43.6	39.9	92	70-134	
Trichloroethene	ug/m3	58.4	62.2	106	70-134	
Vinyl chloride	ug/m3	28	25.9	93	70-132	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: PECO-2017-100 GREENTREE SAMPLI

Pace Project No.: 10594745

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PECO-2017-100 GREENTREE SAMPLI

Pace Project No.: 10594745

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10594745001	SV-10	TO-15	796299		
10594745002	SV-6	TO-15	796299		
10594745003	SV-13	TO-15	796299		
10594745004	SV-2	TO-15	796299		
10594745005	SV-3	TO-15	796299		
10594745006	SV-8	TO-15	796299		
10594745007	IA-2	TO-15	796299		
10594745008	BD-1	TO-15	796299		
10594745009	SV-7	TO-15	796299		
10594745010	SV-11	TO-15	796299		
10594745011	SV-14	TO-15	796299		
10594745012	SV-9	TO-15	796299		
10594745013	SV-4	TO-15	796299		
10594745014	IA-1	TO-15	796299		
10594745015	SV-5	TO-15	796437		

REPORT OF LABORATORY ANALYSIS

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

55636

Page: 1 of 2

Section A
 Required Client Information:
 Company: APEX COMPANIES, LLC
 Address: 205 W RANDOLPH ST
SVE 740 CHICAGO IL
 Email To: STEVE.NEWLIN@apexcs.com
 Phone: _____ Fax: _____
 Requested Due Date/TAT: Standard

Section B
 Required Project Information:
 Report To: STEVE NEWLIN
 Copy To: AHMED ALI
 Purchase Order No.: _____
 Project Name: GREENTREE SAMPLING
 Project Number: PECO-2017-100

Section C
 Invoice Information:
 Attention: STEVE NEWLIN
 Company Name: APEX COS. LLC
 Address: 205 W RANDOLPH ST, STE 740, Chicago
 Pace Quote Reference: 46628
 Pace Project Manager/Sales Rep. _____
 Pace Profile #: _____

ITEM #	AIR SAMPLE ID Sample IDs MUST BE UNIQUE	Valid Media Codes MEDIA Tedlar Bag 1 Liter Summa Can 6 Liter Summa Can Low Volume Puff High Volume Puff Other	COLLECTED		Canister Pressure (Initial Field - In Hg)	Canister Pressure (Final Field - In Hg)	Summa Can Number	Flow Control Number	Method:	Pace Lab ID
			DATE	TIME						
1	SV-10		01/13	12:00	29	4	401	TO-15 Full List VOCs	001	
2	SV-6		11:24	12:00	29	5	234	TO-15 Short List Chlornated	002	
3	SV-13		11:24	12:00	29	5	299	TO-15 Short List BTEX	003	
4	SV-2		12:31	1:12	29	2	214	TO-15 Short List (other)	004	
5	SV-3		12:31	1:12	29	2	093	TO-14	005	
6	SV-8		12:31	1:04	30	5	387	TO-3 BTEX	006	
7	IA-2		12:36	1:13	29	4	022	TO-3M (Methane)	007	
8	BD-1		12:53	2:09	29	2	003	3C - Fixed Gas (%)	008	
9	SV-7		3:06	3:43	29	3	276	PM10	009	
10	SV-11		3:05	3:42	29	4	050		010	
11	SV-14		3:05	3:42	29	4	067		011	
12	SV-9		3:07	3:52	30	2	267		012	

RELIQUISHED BY / AFFILIATION
 AHMED ALI (APEX)

DATE
 1/14

TIME
 1:00PM

ACCEPTED BY / AFFILIATION
 Math J face

DATE
 1-18-22

TIME
 12:38

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: AHMED ALI
 SIGNATURE of SAMPLER: Ahmed Ali
 DATE Signed (MM/DD/YY): 01/14/21

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
Y/N	Y/N	Y/N	Y/N

WO#: 10594745



10594745



AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Company: APEX Companies, LLC Address: 205 W Randolph St 57E 740, Chicago, IL 60605 Email To: Steve.newlin@apexcs.com Phone: Steve.newlin@apexcs.com Fax: Requested Due Date/TAT:		Section B Required Project Information: Report To: STEVE NEWLIN Copy To: AHMED ALI Ahmed.ali@apexcs.com Purchase Order No.: Project Name: GREENTREE SAMPLING Project Number: PECO-2017-100		Section C Invoice Information: Attention: STEVE NEWLIN Company Name: APEX COMPANIES, LLC Address: 205 W RANDOLPH ST Pace Quote Reference: 41603 Pace Project Manager/Sales Rep. Pace Profile #:		Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE SU-4 IA-1 SV-5		Section E Location of Sampling by State: _____ Reporting Units: ug/m ³ _____ ppbv _____ ppmv _____ Other: _____ Report Level: II. _____ III. _____ IV. _____ Other: _____		Section F Program: <input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other: _____		Section G Method: PM10 _____ 3C - Fixed Gas (%) _____ TO-3 BTEX _____ TO-3M (Methane) _____ TO-14 _____ TO-15 Full List VOCs _____ TO-15 Short List BTEX _____ TO-15 Short List Chlorinated _____ TO-15 Short List (Other) _____ Pace Lab ID	
Section H Valid Media Codes: MEDIA Tedlar Bag 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Other PM10		Section I PID Reading (Client only) MEDIA CODE 6LC ↓		Section J COLLECTED DATE TIME DATE TIME COMPOSITE - END/GRAB Initial Field - In Hg Final Field - In Hg Canister Pressure Canister Pressure Summa Can Number Flow Control Number		Section K RELINQUISHED BY / AFFILIATION AHMED ALI (APEX) 1/14 1:00PM ↓		Section L ACCEPTED BY / AFFILIATION Matt Fes/pace 1-18-22 12:38		Section M SAMPLE CONDITIONS Temp in °C _____ Received on _____ Ice _____ Custody Sealed Cooler _____ Samples Intact _____			
Section N SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: AHMED ALI SIGNATURE of SAMPLER: <i>Ahmed Ali</i> DATE Signed (MM/DD/YY): 01/14/21		Section O Comments:		Section P ORIGINAL		Section Q Page: 2 of 2		Section R 1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386		Section S FC046Rev.01, 03Feb2010			

Air Sample Condition Upon Receipt

Client Name: **Apex-IL**

Project #: **WO#: 10594745**

Courier: FedEx UPS USPS Client
 Pace Speedee Commercial

PM: CT1 Due Date: 01/25/22
 CLIENT: Apex CO LLC

Tracking Number: _____ See Exception

Custody Seal on Cooler/Box Present? Yes No

Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags Foam
 None Tin Can Other: _____

Date & Initials of Person Examining Contents: **1-18-22 MI**

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		8.
Correct Containers Used?				9.
(Tedlar bags not acceptable container for TO-15 or APH)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Containers Intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		10.
(visual inspection/no leaks when pressurized)				
Media: <input checked="" type="checkbox"/> Air Can <input type="checkbox"/> Airbag				11. Individually Certified Cans? Y <input checked="" type="checkbox"/> N (list which samples)
Is sufficient information available to reconcile samples to the COC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		12.
Do cans need to be pressurized? (DO NOT PRESSURIZE 3C or ASTM 1946!!!)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		13.

Gauge #: 10AIR26 10AIR34 10AIR35 10AIR17 10AIR47 10AIR48

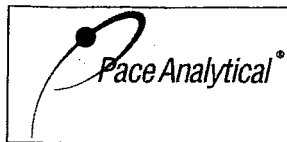
Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
SV-10	4011	2845	-3.5	+5	SV-5	2302	2833	-1.5	+5
11-6	2345	1562	-3.5		Unused	81	2913	-29	-
11-13	2985	2986	-2.5						
11-2	2143	1689	-1.5						
11-3	936	1678	-2						
11-8	3875	3074	-5						
IA-2	227	1216	-3.5						
BD-1	33	1151	-3.5						
SV-7	2761	2712	-2.5						
11-11	0505	3166	-2.5						
11-14	679	1240	-2.5						
11-9	2675	1640	0						
11-4	728	1716	-1.5						
IA-1	2764	3089	-4.5						

CLIENT NOTIFICATION/RESOLUTION Field Data Required? Yes No

Person Contacted: **S. Newlin** Date/Time: _____
 Comments/Resolution: **analyte list verified TCE, PCE, cis- trans- 1,2 DCE, VC**

Project Manager Review: *Carolynne Hart* Date: **1/19/22**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).



Document Name: Sample Condition Upon Receipt (SCUR) Exception Form	Document Revised: 04Jun2020 Page 1 of 1
Document No.: ENV-FRM-MIN4-0142 Rev.01	Pace Analytical Services - Minneapolis

SCUR Exceptions:

Workorder #:

Out of Temp Sample IDs	Container Type	# of Containers	PM Notified? <input type="checkbox"/> Yes <input type="checkbox"/> No																		
			If yes, indicate who was contacted/date/time. If no, indicate reason why.																		
			Multiple Cooler Project? <input type="checkbox"/> Yes <input type="checkbox"/> No If you answered yes, fill out information to the left.																		
			<table border="1"> <thead> <tr> <th colspan="3">No Temp Blank</th> </tr> <tr> <th>Read Temp</th> <th>Corrected Temp</th> <th>Average Temp</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	No Temp Blank			Read Temp	Corrected Temp	Average Temp												
No Temp Blank																					
Read Temp	Corrected Temp	Average Temp																			

Tracking Number/Temperature
97538448 2792
2829
2807
2818

Issue Type:	Container Type	# of Containers
Sample ID	Type	

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preserv.	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition? <input type="checkbox"/> Yes <input type="checkbox"/> No	Initials

Comments:

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

May 13, 2022

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: 22050207 Revision 0

RE: PECO-2017-100, Racine, WI, Greentree Centre

Dear Apex Companies, LLC:

STAT Analysis received 2 samples for the referenced project on 5/6/2022 2:10:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAP standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

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

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

Sincerely,



Justice Kwateng
Project Manager

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

Client: Apex Companies, LLC
Project: PECO-2017-100, Racine, WI, Greentree Centre
Work Order: 22050207 Revision 0

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
22050207-001A	160454		5/5/2022 4:05:00 PM	5/6/2022
22050207-002A	260297		5/5/2022 4:14:00 PM	5/6/2022

CLIENT: Apex Companies, LLC
Project: PECO-2017-100, Racine, WI, Greentree Centre
Work Order: 22050207 Revision 0

CASE NARRATIVE

TO-15 results that are reported in $\mu\text{g}/\text{m}^3$ 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: May 13, 2022

ANALYTICAL RESULTS

Date Printed: May 13, 2022

Client: Apex Companies, LLC

Project: PECO-2017-100, Racine, WI, Greentree Centre

Work Order: 22050207 Revision 0

Lab ID: 22050207-001

Collection Date: 5/5/2022 4:05:00 PM

Client Sample ID 160454

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Volatile Organic Compounds in Air by GC/MS	TO-15				Prep Date: 5/9/2022	Analyst: MAS
cis-1,2-Dichloroethene	ND	0.30		ppbv	1	5/9/2022
Tetrachloroethene	3.7	0.30		ppbv	1	5/9/2022
trans-1,2-Dichloroethene	ND	0.30		ppbv	1	5/9/2022
Trichloroethene	ND	0.30		ppbv	1	5/9/2022
Vinyl chloride	ND	0.30		ppbv	1	5/9/2022

Volatile Organic Compounds in Air by GC/MS	TO-15				Prep Date: 5/9/2022	Analyst: MAS
cis-1,2-Dichloroethene	ND	1.2		µg/m ³	1	5/9/2022
Tetrachloroethene	25	2.0		µg/m ³	1	5/9/2022
trans-1,2-Dichloroethene	ND	1.2		µg/m ³	1	5/9/2022
Trichloroethene	ND	1.6		µg/m ³	1	5/9/2022
Vinyl chloride	ND	0.77		µg/m ³	1	5/9/2022

Lab ID: 22050207-002

Collection Date: 5/5/2022 4:14:00 PM

Client Sample ID 260297

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Volatile Organic Compounds in Air by GC/MS	TO-15				Prep Date: 5/9/2022	Analyst: MAS
cis-1,2-Dichloroethene	ND	0.29		ppbv	1	5/9/2022
Tetrachloroethene	4.2	0.29		ppbv	1	5/9/2022
trans-1,2-Dichloroethene	ND	0.29		ppbv	1	5/9/2022
Trichloroethene	ND	0.29		ppbv	1	5/9/2022
Vinyl chloride	ND	0.29		ppbv	1	5/9/2022

Volatile Organic Compounds in Air by GC/MS	TO-15				Prep Date: 5/9/2022	Analyst: MAS
cis-1,2-Dichloroethene	ND	1.2		µg/m ³	1	5/9/2022
Tetrachloroethene	28	2.0		µg/m ³	1	5/9/2022
trans-1,2-Dichloroethene	ND	1.2		µg/m ³	1	5/9/2022
Trichloroethene	ND	1.6		µg/m ³	1	5/9/2022
Vinyl chloride	ND	0.75		µg/m ³	1	5/9/2022

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

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

CHAIN OF CUSTODY RECORD

Company: Apex Companies LLC
 Project Number: PECO-2017-100 Client Tracking No.:
 Project Name:
 Project Location: Racine, WI Greentree Centre
 Sampler(s): Tim Stauder
 Report To: Tim Stauder or Jane Allan Phone: 830-776-3307
 QC Level: 1 2 3 4 Fax:

e-mail: tim.stauder@apexco.com

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp	Grab	Preserv	No. of Containers
160454	5/3/22	0810	Air	X			1
260297	5/3/22	0826	Air	X			1
		1605	mm				
		475	mm				
		1614	mm				
		465	mm				

Quote No.:	P.O. No.:	Turn Around Time (Days):	Results Needed:	Additional Information:	Lab No.:	am/pm
		1 2 3 4 5-7 10			001	
					00M 576	
					002	

Relinquished by: (Signature) Tim Stauder Date/Time: 5/3/22 17:36
 Received by: (Signature) 272824885597 Date/Time:
 Relinquished by: (Signature) FE EX Date/Time:
 Received by: (Signature) MM Date/Time: 5/6/22 1410
 Relinquished by: (Signature) Date/Time:
 Received by: (Signature) Date/Time:

Comments: Standard Juvm
around sand RP
jane.allan@apexco.com 100
 Laboratory Work Order No.: 22050207
 Received on Ice: Yes No
 Temperature: Ambient °C

Preservation Code: A = None B = HNO₃ C = NaOH
 D = H₂SO₄ E = HCl F = 5035/EnCore G = Other

Sample Receipt Checklist

Client Name **APEX**



Date and Time Received:

5/6/2022 2:10:00 PM

Work Order Number **22050207**

Received by: **MM**

Checklist completed by: 
 Signature | Date

Reviewed by:  
 Initials | Date

Matrix: _____ Carrier name: **FedEx**

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels/containers? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container or Temp Blank temperature in compliance? Yes No Temperature Ambient °C
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - Samples pH checked? Yes No Checked by: _____
- Water - Samples properly preserved? Yes No pH Adjusted? _____

Any No response must be detailed in the comments section below.

Comments: _____

Client / Person contacted: _____ Date contacted: _____ Contacted by: _____

Response: _____

Craig Chawla

From: Jane Allan <Jane.Allan@ApexCos.com>
Sent: Monday, May 09, 2022 2:19 PM
To: Craig Chawla
Cc: Tim Stauder
Subject: RE: [EXT] PECO-2017-100, Racine, WI, Greentree Centre 22050207


Hi Craig

This is the shortlist:

cis-1,2-Dichloroethene
trans-1,2-Dichloroethene
Tetrachloroethene
Trichloroethene
Vinyl chloride


Please provide results in $\mu\text{g}/\text{m}^3$

Thanks!



Jane Allan, PhD
Sr Project Manager
Apex Companies, LLC
4701 Creek Rd, Ste 100
Blue Ash, OH 45242
O) 513-771-3617 x3801 M) 513-477-4602

Add me to your contact list!



ENR Top 30 All-Environmental Firm



We've moved! Our new address is 4701 Creek Road, Suite 100, Cincinnati, OH 45242. Please update your contact list. Thanks.

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From: Craig Chawla <cchawla@statanalysis.com>
Sent: Monday, May 9, 2022 2:59 PM
To: Jane Allan <Jane.Allan@ApexCos.com>
Cc: Tim Stauder <Tim.Stauder@apexcos.com>
Subject: [EXT] PECO-2017-100, Racine, WI, Greentree Centre 22050207

CAUTION

Hi Jane and Tim,

The chain of custody for project PECO-2017-100, Racine, WI, Greentree Centre references a 'short list'. Can you provide the list of compounds that you would like reported when you have a chance?