verdantas

Analysis of Brownfields Cleanup Alternatives

EPA Brownfield Cleanup Grant No. 95349501

Former 49th Street Terminal
1700 South 49th Street
Philadelphia, Pennsylvania 19143

Prepared for:
Philadelphia Authority for Industrial Development/
Philadelphia Industrial Development Corporation
1500 Market Street, Suite 3500 West
Philadelphia, PA 19102

Prepared by:
Verdantas LLC
211 N. 13th Street
Philadelphia, PA 19107

Verdantas Project No: 26830

April 30, 2026

Table of Contents

1. Introduction 1
2. Site Background and Conditions 2
2.1 Site Location and Description 2
2.2 Site History and Uses 2
2.2.1 Forecasted Climate 2
2.2.2 Federal Emergency Management Association (FEMA) Flood Zone 4
2.3 Prior Site Characterization and Remedial Activities 4
2.4 2025 Supplemental Site Characterization and Cleanup Plan 5
3. Project Goals 7
3.1 Applicable Regulations and Cleanup Standards 7
3.2 Cleanup Alternatives 7
3.2.1 Effectiveness 8
3.2.2 Implementability 9
3.2.3 Recommended Alternative 10
3.2.3.1 Green and Sustainable Remediation Measures for Selected Alternative 11
3.3 Final Report and Post Remedial Monitoring 12
4. References 13
5. Signature(s) Of Environmental Professional(s) 14

Figures

Figure 1 Site Location Map
Figure 2 Shallow Soil Sample Exceedances
Figure 3 Deep Soil Sample Exceedances
Figure 4 Groundwater Sample Exceedances
Figure 5 Cleanup Plan

Appendices

Appendix A Sampling Results

1. Introduction

Verdantas LLC (Verdantas) has prepared this Analysis of Brownfields Cleanup Alternatives – Preliminary Evaluation (ABCA) on behalf of the Philadelphia Industrial Development Corporation (PIDC) to evaluate remedial alternatives proposed for the former 49th Street Terminal located at 1700 South 49th Street, Philadelphia, Philadelphia County, Pennsylvania (the "Site"), in support of future redevelopment. The qualified environmental consultant on the project is Verdantas LLC (Verdantas). The site will be remediated using funding from the Philadelphia Authority for Industrial Development (PAID's) EPA Cleanup Grant No. 95349501.

The purpose of the ABCA is to evaluate brownfield cleanup alternatives that will remediate or control contaminated media identified at the Site to provide protection of human health and the environment. The ABCA includes information about the Site and its previous use, Site assessment activities/findings, applicable regulations and cleanup standards, an evaluation of cleanup alternatives considered, and the recommended cleanup alternative.

2. Site Background and Conditions

2.1 Site Location and Description

The Site was historically known as the 49th Street Terminal and is located along the western shore of the Schuylkill River. The Site is owned by the Philadelphia Authority for Industrial Development (PAID) and identified as Tax Parcel 88-4-217200. Approximately 0.86 acres in size, the Site is bounded to the north by 49th Street, to the south by industrial property, to the east by the Schuylkill River, and to the west by Botanic Avenue, which is also known as the South Schuylkill River Recreational Trail and Bartram's Mile. The Site is currently vacant land, overgrown with brush and trees. The City of Philadelphia identifies the Site as OPA Account #885916780 with an address of 1700 S 49th Street. The parcel is zoned as I-2 for medium industrial use, according to the Philadelphia Department Licensing and Inspections (L&I). The Site location is shown on **Figure 1**.

2.2 Site History and Uses

The Site was developed prior to 1923 as a sand and gravel wharf and operated as an oil terminal from approximately 1942 to 2006. Nearly 1.7 million gallons of petroleum were stored onsite in aboveground storage tanks (ASTs). The 1925 Sanborn Map for the Site depicts seven rail spurs entering the Site from Botanic Avenue along with a warehouse and conveyor from an onsite dock to a storage bin. The 1951 Sanborn Map depicts the locations of historical oil tanks located in and outside of concrete dikes and one rail spur onsite. The Site was variously labeled as the "Water Terminal Fuel Oil Co.", "Franco Coal Co," "Water Terminal Fuel Oil Sta" and "Major Petroleum Company" on Sanborn maps dated 1942 to 2005.

Petroleum-related activities ceased in the early 1990s, according to reports prepared by others. All tanks were removed in 2006. AST closure activities included product recovery from the tanks and associated piping, cleaning of AST systems, and removal and disposal of tanks and piping for recycling.

Most of the structures on the Site that once were used to support oil terminal operations have been removed. According to Sci-Tek's 49th Street Remedial Evaluation (June 2022) a non-operational fuel transfer system and canopy and a corrugated metal storage trailer structure were located in the western corner of the Site by the gravel entrance driveway; these structures were not present in 2025. An old river pier and bulkhead were also observed by Sci-Tek, which were located off the bank of the Schuylkill River at the eastern edge of the Site. Remnants of these structures are still present, and some partial concrete pads and walls, bollards, and piping also remain onsite.

2.2.1 Forecasted Climate

Based on reviews of the Findings of the U.S. Global Change Research Program Climate Science Special Report (2017) and the State Climate Summary for Pennsylvania (2022), potential future climate change risks relate to increases in temperature and the frequency of extreme precipitation

events. Based on the location of the Site near the Schuylkill River, extreme precipitation events could lead to flooding, which could in turn pose the greatest risk to the selected environmental response action.

Global annually averaged surface air temperature has increased by about 1.8°F (1.0°C) over the last 115 years (1901–2016). These trends are expected to continue. Heatwaves have become more frequent in the United States since the 1960s, while extreme cold temperatures and cold waves are less frequent (Findings of the U.S. Global Change Research Program Climate Science Special Report, 2017).

According to the State Climate Summary for Pennsylvania (2022), since the beginning of the 20th century, temperatures in Pennsylvania have risen almost 2°F, and temperatures in the 2000s have been higher than in any other historical period. Large temperature increases are possible for the future if greenhouse gas concentrations continue to increase. Even under a lower emissions scenario, annual average temperatures are projected to most likely exceed historical record levels by the middle of this century. Extreme heat is a particular concern for Philadelphia and other urban areas where the urban heat island effect increases summer temperatures. High temperatures combined with high humidity can create dangerous heat index values. Philadelphia has developed heat vulnerability maps and Beat the Heat Toolkits to assist higher risk residents with heat risk reduction strategies.

According to the Fifth National Climate Assessment (NCA5), precipitation in the Northeast United States, defined as Maine, Vermont, New Hampshire, New York, Connecticut, Rhode Island, Massachusetts, Pennsylvania, New Jersey, Delaware, and West Virginia, has increased during all seasons. Extreme precipitation events, representing the top 1% of all daily precipitation amounts, have increased by approximately 60% in the Northeast, the largest increase in the United States.

The increasing number of extreme precipitation events in Pennsylvania can result in more frequent and devastating flooding. Winter and spring precipitation is also projected to increase in Pennsylvania. Heavier precipitation and higher temperatures causing earlier snowmelt also increase the risk of springtime flooding (State Climate Summary for Pennsylvania, 2022).

Pennsylvania’s coastline runs along the Delaware Estuary and increasing temperatures raise concerns for sea level rise in these coastal areas. Even if storm patterns remain the same, sea level rise will increase the frequency, extent, and severity of coastal flooding. This is a particularly serious risk for Philadelphia where the observed sea level rise over the past century has exceeded the global average. Sea level rise has caused an increase in tidal floods associated with nuisance-level impacts. These events can damage infrastructure, cause road closures, and overwhelm storm drains. As sea level has risen along the Pennsylvania coastline, the number of tidal flooding days (all days exceeding the nuisance level threshold) has also increased (State Climate Summary for Pennsylvania, 2022).

2.2.2 Federal Emergency Management Association (FEMA) Flood Zone

The Site is shown on FEMA Flood Insurance Map 4207570187H in Zone AE of a Special Flood Hazard Area (SFHA). SFHA are defined as the area that will be inundated by the flood event having a 1-percent chance of being equaled or exceeded in any given year. The 1-percent annual chance flood is also referred to as the base flood or 100-year flood (FEMA, 2020).

2.3 Prior Site Characterization and Remedial Activities

Several investigations have been conducted at the Site and adjoining National Heat and Power property (NHP).

- Aboveground Storage Tank Summary Report, prepared by Environmental Maintenance Company, Inc. (EMC) and dated January 2006 (EMC AST Report);
- Urban's SCR dated September 2006
- AST Confirmatory Sampling Report (AST Report) prepared by Malcolm Pirnie, dated October 18, 2006, and appended to the 2006 SCR;
- Pennsylvania Department of Environmental Protection (PADEP) Correspondence dated January 10, 2007;
- MP's Remediation Implementation Plan (RIP) dated September 2010;
- Sci-Tek's 49th Street Remedial Evaluation (June 2022)
- 2013 RIR/CP for the Site and NHP by Duffield Associates, now Verdantas

The 2006 EMC AST Report describes the removal and closure of eight ASTs designated AST 1-8 onsite. AST closure activities included product recovery from the tanks and associated piping, cleaning of AST systems, and removal and disposal of tanks and piping for recycling. At least two of the ASTs reportedly contained heating oil.

Urban performed a sitewide investigation to characterize areas of potential impact to soil and groundwater and Malcolm Pirnie performed AST confirmatory soil sampling, as documented in Urban's SCR in Malcolm Pirnie's AST Tank Summary Report, respectively. Soil samples collected to support tank closure activities at the Site were obtained from 3 and 5 feet below ground surface (bgs). Select soil samples were reported to contain PAHs concentrations in excess of 2006 PADEP Residential (R) and Non-Residential (NR) Direct Contact (DC) and Used Aquifer R and NR Soil to Groundwater (SGW) Statewide Health Standards (SHS). Concentrations of lead also exceeded the 2006 R DC and R/NR SGW SHS in some samples obtained at the Site. PAHs exceeding their respective standards include anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, chrysene, and naphthalene. Benzene exceeded the 2006 R SGW SHS in one sample. Tabulated sampling results are presented in **Appendix A**.

Boring logs prepared during tank closure activities document the presence of petroleum odors, elevated photoionization detector (PID) readings, and apparent petroleum-staining on aggregate and coal fragments.

Duffield Associates conducted a preliminary baseline risk assessment for soils using the data presented in the 2006 SCR. However, it was assumed that the impacted area at the Site would be capped or soil removal would occur. Data for soil samples obtained from Site areas where the R/NR DC and R/NR SGW SHS were exceeded were not included in the statistical evaluation conducted as part of the preliminary risk assessment.

The Cleanup Plan contained in Duffield's 2013 RIR/CP proposed excavation and off-site disposal of impacted soil, along with engineering and institutional controls (if required), for certain identified impacted areas of the Site, if funding was available. Post-excavation soil sampling and attainment of Site-Specific Standards using pathway elimination was proposed in conjunction with excavation and offsite disposal. In the event that funding was not available, concentrations of regulated substances of concern in soils were proposed to be addressed using a Site-Specific Standard via pathway elimination. At the time of implementing the CP [during the period of 2014 -2015], funding was not available to address environmental conditions at the Site. The original estimate for the cleanup was $1,260,000.

2.4 2025 Supplemental Site Characterization and Cleanup Plan

A remedial investigation of soils and groundwater was conducted onsite from August – October 2025. Sixteen soil borings and 3 groundwater monitoring wells were installed and sampled to delineate impacts identified during previous investigations and provide sitewide characterization data to address data gaps. Constituents of concern (COCs) in soil samples collected from these borings include benzene, lead, arsenic, benzo(a)pyrene (bap), benzo(b) fluoranthene (bbf), and biphenyl in shallow (0-2 feet below ground surface [bgs]) and deeper (3 to 8 feet bgs) soil samples. Shallow and deep soil exceedances are shown on **Figures 2** and **3**. The supplemental site characterization indicated the presence of sitewide impact of COCs in soils.

Concentrations of benzene and lead exceeded their respective NR SHSs in 7 of 19 shallow soil samples. Concentrations of benzene and lead also exceeded the NR SHS in 7 of 19 and 9 of 19 deep soil samples, respectively. NR SHS for arsenic, bap, bbf, biphenyl are attained in accordance with PADEP's 75% 10X rule. With the exception of benzene and lead, concentrations of all other analytes also attain NR SHS in soil samples at the Site. With the exception of benzene, soil COCs do not exceed their respective vapor intrusion screening levels.

Two rounds of groundwater sampling were conducted at monitoring wells MW-1 through -3. Iron and manganese concentrations exceeded the NR SHS Medium Specific Concentrations (MSCs) in all groundwater samples collected during both sampling rounds. Concentrations of benzene, aluminum, and lead exceeded their respective NR SHS MSCs in the groundwater sample obtained from MW-3 on October 2, 2025. Groundwater exceedances are shown on **Figure 4**. No other

analytes were detected at concentrations exceeding their respective NR SHS MSCs in groundwater samples obtained in September and October 2025, and vapor intrusion screening levels were not exceeded.

Benzene and lead exceedances in soil will be addressed through implementation of the Cleanup Plan. The selected remedial alternative will render the direct contact pathway incomplete through excavation of impacted soils across the Site to depths of a minimum of 2 feet bgs and up to 4 feet bgs and capping with clean soil and clean aggregate surface/disconnected impervious cover to grade. The cap will also serve as an engineering control to prevent flushing of soil COCs to underlying groundwater in these areas. Post-excavation sampling will be conducted based on the volume of soils excavated using the PADEP's Systematic Random Sampling guidance. Post-excavation samples will be analyzed for identified COCs. The Cleanup Plan depicting the proposed area of excavation is included as **Figure 5**.

The soil cap will be composed of clean fill in accordance with the PADEP Management of Fill (MoF) Policy. Excavated soils will be managed in accordance with the MoF Policy and all other applicable regulations. Subsurface disturbance in areas of identified impacts will be conducted in accordance with Site-Specific Health and Safety and Soil Management Plans. An environmental covenant (EC) will be required to ensure the maintenance and integrity of the cap.

Implementation of the CP will result in source removal and a likely reduction in flushing of soil COCs to underlying groundwater. A minimum of four rounds of groundwater sampling will be conducted following implementation of the CP to demonstrate attainment of NR SHS and/or SSS for groundwater. Fate and transport modeling will be conducted following completion of attainment sampling to demonstrate elimination of the groundwater to surface water pathway to the Schuylkill River.

A Post-Remediation Care Plan (PRPC) documenting post-remedial requirements will be submitted to the PADEP as part of the Final Report (FR) for the Site. Engineering and institutional controls for the Site will be documented in an EC, including a Soil Management Plan, Site-specific Health and Safety Plan (HASP), and provisions for cap inspections and maintenance. The EC will be submitted to the PADEP following approval of the FR.

Verdantas will submit the Remedial Investigation Report and Cleanup Plan to PADEP in April 2026 for review and approval. PADEP's response is expected within 90-days of submission.

3. Project Goals

The Site is part of an ongoing master planning effort by the City of Philadelphia to support future redevelopment of the Lower Schuylkill River area that envisions re-energizing a 4,000-acre industrial area. It is zoned as I-2 for medium industrial use and it is unlikely that the zoning classification will change in the future. Remediation will eliminate potential pathways to receptors at the Site.

3.1 Applicable Regulations and Cleanup Standards

Site remediation is regulated by the following agencies and associated standards:

PADEP

- 25 PA Code §250 Land Recycling and Environmental Standards Remediation Act, 1995, (Act 2 Land Recycling Program).
- Remediation standards for soil and groundwater including Pennsylvania SHS, the Site-Specific Standard, the Background Standard or the Special Industrial Area Standard, most recently updated in 2021.
- Land Recycling Program Technical Guidance Manual for Vapor Intrusion into Buildings from Groundwater and Soil under Act 2, 2021.
- Management of Fill Policy, January 16, 2021.

US EPA

- US EPA Toxic Control Substance Act (TSCA) Subchapter II Asbestos Hazard Emergency Response Act (AHERA) (15 U.S.C. §2641-2656) and the Asbestos School Hazard Abatement Reauthorization Act (ASHARA) of 1990.

3.2 Cleanup Alternatives

Three remedial alternatives were considered to address the impacted area at the Site. Associated benefits and disadvantages of each alternative are summarized below:

Alternative No.1: No Action

By conducting no remedial activities, the Site and environmentally impacted materials would remain in their current condition. The Site is currently managed under Alternative No. 1.

Alternative No. 2: Construction of a Cover.

Specific Site redevelopment plans are currently unknown. While construction of a cover across the entire Site that incorporates an eventual redevelopment design would be implementable, the timing of any eventual Site redevelopment is unknown, which results in the Site remaining in its current

condition. Any construction of a cover would also result in stormwater management compliance challenges as well as require ongoing monitoring and maintenance and periodic coordination and reporting. For these reasons, Alternative No. 2 is considered difficult to implement.

Alternative No. 3: Soil Excavation and Capping

Removal of Surficial Impacted Soils with Construction of a Soil Cover and Quarterly Groundwater Attainment Sampling. Alternative No. 3 is anticipated to result in improvement of soil and groundwater quality, be protective of human health and the environment, and allow for greater flexibility for managing/remediating unknown soil conditions at the Site.

During soil removals, this remedial alternative should not be complicated by the presence of overburden groundwater beneath the Site. This approach will require coordination (e.g., dust suppression and monitoring) during cleanup activities and short-term disturbance to the community (e.g., trucks transporting soils).

Long-term monitoring and maintenance will be required for capped/covered areas, as described in a PRCP. A minimum of four quarterly rounds of groundwater attainment sampling will also be documented in the PRCP to determine the effectiveness of source removal in improving groundwater quality. Engineering and institutional controls will also be documented in an EC that complies with the Uniform Environmental Covenants Act (UECA). The current estimate for this work is between $1,500,000 and $2,300,000.

3.2.1 Effectiveness

Alternative No. 1: No Action

The No Action alternative would result in the Site remaining in its current condition. This alternative could interfere with construction of Site improvements or other beneficial reuses and is not effective in controlling or preventing the exposure to COCs, or the potential migration of COCs from the Site.

Alternative No. 2: Capping

Construction of a cover across the Site would be an effective way of preventing direct contact with COCs in surface soils. The removal of environmentally impacted soil would not be required under this Alternative. Under Alternative No. 2, an institutional control (land use restriction) would be recorded on the Site deed to prevent removal or damage to the cover.

Alternative No. 3: Removal of Impacted Soils with Construction of a Soil Cover and Quarterly Groundwater Attainment Sampling

Removal of impacted soils combined with construction of a cover would provide a Sitewide approach toward attaining the remedial goals. The goal of this alternative would be to remove the source of COCs from the subsurface to improve soil and groundwater quality. Post-excavation sampling will be conducted in accordance with the PADEP's Systematic Random Sampling

Workbook to confirm the effectiveness of the remedial measure. Remnant structures including concrete, bollards, piping, etc., would be removed at the same time as soil excavation is conducted. Soils underlying these structures would be evaluated for potential environmental impacts. If impacts are suspected, soil samples will be collected in the same manner as that described above. The cover will consist of a clean soil cap and clean aggregate surface/disconnected impervious cover to grade.

A minimum of 4 quarterly rounds of groundwater sampling will also be conducted following source removal to determine if NR SHS for groundwater COCs are attained. If current onsite wells are damaged/destroyed during excavation activities, a minimum of 3 permanent monitoring wells will be installed onsite to facilitate post-remedial groundwater attainment sampling. Fate and transport modeling of groundwater sampling results would be conducted following completion of 4 quarters of groundwater attainment sampling to demonstrate that the groundwater to surface water pathway is incomplete. If analytical results do not indicate a stable and/or decreasing plume, an additional 4 quarters of sampling will be conducted to demonstrate plume stability. Should NR SHS not be met at the conclusion of the remedial action, attainment of the remedial goals may be demonstrated using Site Specific Standards via pathway elimination.

Post-excavation soil samples will be analyzed for targeted VOCs, SVOCs and metals detected at concentrations exceeding NR SHS during historical and 2025 remedial investigations at the Site. Groundwater attainment samples will be analyzed for full TCL VOCs and targeted metals detected at concentrations exceeding NR SHS during the 2025 remedial investigation at the Site.

Where pathway elimination is selected as the remedial solution, institutional controls will be required. This alternative allows for greater flexibility for managing the unknown soil conditions beneath remnant Site structures.

3.2.2 Implementability

Alternative No. 1: No Action

By conducting no remedial activities, the Site and environmentally impacted materials would remain in their current condition. This is the approach currently implemented at the Site.

Alternative No. 2: Construction of a Cover

Specific Site redevelopment plans are currently unknown. While construction of a cover across the entire Site that incorporates an eventual redevelopment design would be implementable, the timing of any eventual Site redevelopment is unknown, which results in the Site remaining in its current condition. Any construction of a cover would also result in stormwater management compliance challenges as well as require ongoing monitoring and maintenance and periodic coordination and reporting. For these reasons, Alternative No. 2 is considered difficult to implement.

Alternative No. 3: Removal of Surficial Impacted Soils with Construction of a Soil Cover and Quarterly Groundwater Attainment Sampling

During soil removal, this remedial alternative should not be complicated by the presence of overburden groundwater beneath the Site. This approach will require coordination (e.g., dust suppression and monitoring) during cleanup activities and short-term disturbance to the community (e.g., trucks transporting soils). Best management practices and strict erosion and sedimentation measures will be maintained. Any onsite remediation/redevelopment will be performed in accordance with this requirement and all other applicable regulations. This approach requires more planning and coordination than Alternatives 1 and 2. Long-term monitoring and maintenance will be required for capped/covered areas and detailed in a PRCP. A minimum of four quarterly rounds of groundwater attainment sampling will also be documented in the PRCP to determine the effectiveness of source removal in improving groundwater quality. Engineering and institutional controls will also be documented in an EC that complies with the UECA.

3.2.3 Recommended Alternative

Based on this evaluation, the recommended cleanup alternative is Alternative No. 3. This alternative addresses all identified soil impacts at the Site and provides the best strategy to optimize redevelopment opportunities and community benefits.

Actual limits of excavations may change upon field observations. Additional excavation may also be conducted in response to findings during remnant structure removal. Accordingly, the plan also provides for environmental review of soils after removal of any remaining concrete, bollards, piping, etc. Quarterly groundwater attainment sampling will also be conducted. The area identified for excavation is shown on **Figure 5**. Additional delineation and monitoring may be requested by the PADEP, depending on results from any additional sampling conducted, including beneath any remnant structures.

The remedial approach is presented below:

The Site is 0.86 acres in area. If Brownfield funding allows, surface soils will be removed to a depth of approximately 4-feet bgs, resulting in an estimated excavated volume of approximately 5,042 cubic yards. If this approach is not financially feasible, the excavation depth will be reduced to a protective 2-feet bgs, resulting in an estimated excavated volume of 2,521 cubic yards. Excavated soils will be managed in accordance with PADEP's MoF Policy. While not necessarily predictive of concentrations in excavated soil, the majority of concentrations of COCs in soil samples obtained during the 2025 remedial investigation did not exceed Clean or Regulated Fill Concentration Limits.

The proposed easternmost excavation boundary will be located at least 25-feet west of the western edge of the Schuylkill River. No work will be conducted on the River or its bank, which borders the Site to the east. Concrete pads, some partial walls, rebar, bollards and piping remaining on the Site will also be removed during remediation to the extent possible, taking into account any limitations due to excavation safety concerns. Excavation on the eastern side of the Site will terminate 2 feet away from either side of the wall located there, and the wall will be supported during remedial

activities. Residual oils, if present, will be removed from any remaining piping prior to excavation. After structures are removed, the soils will be reviewed in the field for apparent petroleum impact. If obvious indications of potential impacts are observed, soil samples will be collected for analysis to determine if additional excavation is necessary in those areas. Following completion of excavation activities, the Site will be stabilized to minimize surface runoff.

Post-remedial sampling will be performed in accordance with the Pa Code §250.703. Soil samples will be collected at the following rate per volume of excavated material:

- Soil volumes less than 125 cubic yards, at least 8 samples will be collected.
- For soil volumes up to 3,000 cubic yards, at least 12 sample points.
- For each additional 3,000 cubic yards, at least 12 sample points.

If soil conditions do not appear to improve at 2-4 feet bgs, with final depth dependent on Brownfield grant funding, excavation will cease and samples will be collected for the purposes of establishing the appropriate standards for the Site (e.g., NR SHS or SSS via pathway elimination). Soil samples will be analyzed for targeted VOCs, SVOCs, and metals COCs detected in excess of NR SHS during historical and 2025 investigation activities.

A minimum of 4 rounds of quarterly groundwater sampling will be conducted to determine the effectiveness of source removal in improving groundwater quality and attainment of NR SHS or SSS via pathway elimination. Groundwater samples will be analyzed for full TCL VOCs and targeted metals COCs detected in excess of NR SHS during 2025 investigation activities.

Groundwater sampling results will also be used in fate and transport modeling to eliminate the groundwater to surface water pathway.

Because an area within 300 feet of the Schuylkill River is proposed to be disturbed by the remediation, additional information was submitted to the PFBC at their request so they could conduct a more thorough evaluation of the potential adverse impacts to potential species of concern, as required in PFBC's October 16, 2025, letter. A proposed remedial scope of work and figure depicting the area of disturbance were provided to the PFBC on March 16, 2026. Based on the information provided PFBC determined that impacts to species of concern are not anticipated. The CP will be implemented in accordance with PFBC requirements to employ best management practices and strict erosion and sedimentation measures.

3.2.3.1 Green and Sustainable Remediation Measures for Selected Alternative

Green and sustainable remediation (GSR) measures that could potentially be employed during implementation of the selected alternative include:

- Removal of contaminants, reducing risk to the community.
- Prohibition of unnecessary idling of field machinery during remedial activities.
- Onsite reuse of unimpacted soils to reduce unnecessary transportation and landfilling.
- Beneficial reuse of the Site, providing value to the community.

3.3 Final Report and Post Remedial Monitoring

A Final Report will be prepared documenting assessment and remedial activities described in this CP. Post-excavation and groundwater attainment sampling results and documentation of soil removal will be included in the Final Report. The Final Report will include a PRCP and Activity and Use Limitations, as needed. An EC will be submitted following PADEP approval of the Final Report documenting provisions of the PRCP.

4. References

49th Street Terminal Remedial Evaluation, Sci-Tek, June 2022

Aboveground Storage Tank Confirmatory Sampling Report, Malcolm Pirnie, 2006

Aboveground Storage Tank Summary Report, Environmental Maintenance Company, 2006

Remedial Investigation/Cleanup Plan, Duffield Associates, April 2013

https://statesummaries.ncics.org/chapter/pa/

https://science2017.globalchange.gov/

https://www.fema.gov/flood-maps/national-flood-hazard-layer

https://www.fema.gov/flood-maps

Fifth National Climate Assessment, US Global Change Research Program, November 2023, Revised June 2024

Urban Engineers Site Characterization Report, September 2006

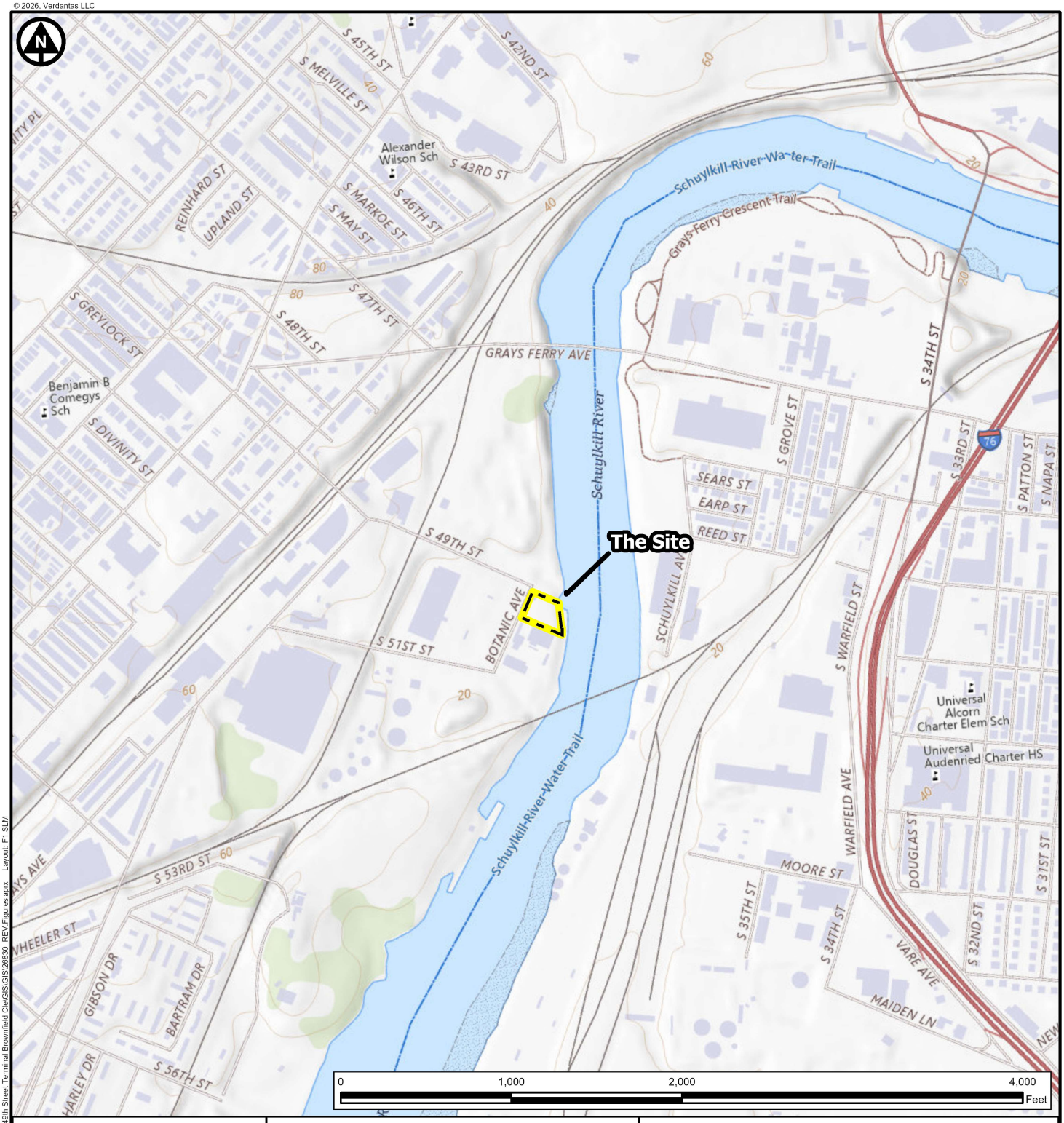
5. Signatures

Susan K.F. LaBrake, PG
Senior Consultant
slabrake@verdantas.com
April 30, 2026

Jennifer L. Gresh, PG
Principal
jgresh@verdantas.com
April 30, 2026

Figures

Figure 1 Site Location Map
Figure 2 Shallow Soil Sample Exceedances
Figure 3 Deep Soil Sample Exceedances
Figure 4 Groundwater Sample Exceedances
Figure 5 Cleanup Plan

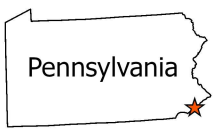


Legend

Site Boundary

DISCLAIMER: Verdantas LLC has furnished this map to the Client for its sole and exclusive use as a preliminary planning and screening tool. This map is reproduced from geospatial information compiled from third-party sources which may change over time and are not accurate as to mapping, surveying or engineering standards. Verdantas LLC makes no representation or warranty as to the content, accuracy, timeliness or completeness of any information. In no event will Verdantas LLC, its owners, officers, employees or agents, be liable for damages of any kind arising out of the use of this map by Client or any other party.

verdantas



Sources:
Aerial Imagery: PASDA City of Philadelphia imagery Web Service dated 2025.

Topographic Map: USGS Topographic Web Service.

Philadelphia Industrial Development Corporation
49th Street Terminal

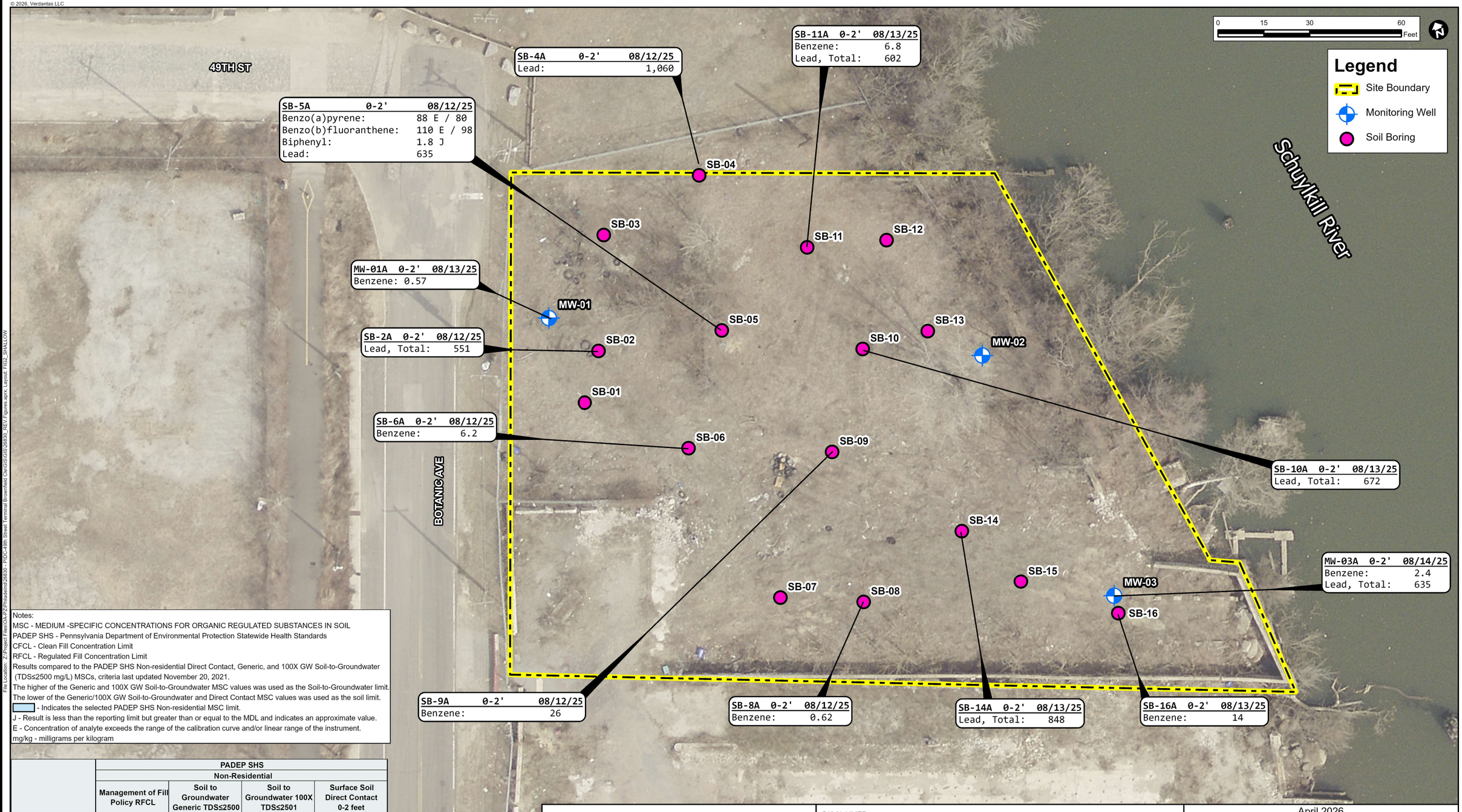
Site Location Map

1700 S 49th Street
Philadelphia, PA 19143

Project Number	26830
Date	02/2026
Author	nfernandez
Scale	1 in = 819 ft
Figure	1

Edited: 2/6/2026 File Location: Z:\Project Files\OA-PZ\Philadelnd\26830 - PIDC-49th Street Terminal Brownfield Cte\GIS\GIS\26830_REV Figures.aprx Layout: F1.SLM

Produced Using Esri's ArcGIS Software



Notes:
MSC - MEDIUM -SPECIFIC CONCENTRATIONS FOR ORGANIC REGULATED SUBSTANCES IN SOIL
PADEP SHS - Pennsylvania Department of Environmental Protection Statewide Health Standards
CFCL - Clean Fill Concentration Limit
RFCL - Regulated Fill Concentration Limit
Results compared to the PADEP SHS Non-residential Direct Contact, Generic, and 100X GW Soil-to-Groundwater (TDS≤2500 mg/L) MSCs, criteria last updated November 20, 2021.
The higher of the Generic and 100X GW Soil-to-Groundwater MSC values was used as the Soil-to-Groundwater limit.
The lower of the Generic/100X GW Soil-to-Groundwater and Direct Contact MSC values was used as the soil limit.
- Indicates the selected PADEP SHS Non-residential MSC limit.
J - Result is less than the reporting limit but greater than or equal to the MDL and indicates an approximate value.
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
mg/kg - milligrams per kilogram

	PADEP SHS Non-Residential			
	Management of Fill Policy RFCL	Soil to Groundwater Generic TDS≤2500	Soil to Groundwater 100X TDS≤2501	Surface Soil Direct Contact 0-2 feet
Target Compound List Volatile Organic Compounds (mg/kg) - EPA 5035 / EPA 5035 High				
Benzene	0.13	0.13	0.5	280
Target Compound List Semi-Volatile Organic Compounds (mg/kg) - EPA 8270D				
Benzo(a)pyrene	46	46	0.02	91
Benzo(b)fluoranthene	76	170	0.12	76
Biphenyl	1.5	1.5	0.35	34
Target Analyte List Metals (mg/kg) - EPA 6010B/7471B				
Lead, Total	450	450	0.5	1000

Source:
1. The aerial photo was acquired through the PASDA City of Philadelphia imagery Web Service. Aerial photography dated 2025.

verdantas

DISCLAIMER:
Verdantas LLC has furnished this map to the company identified in the title block (Client) for its sole and exclusive use as a preliminary planning and screening tool and field verification is necessary to confirm these data. This map is reproduced from geospatial information compiled from third-party sources which may change over time. Areas depicted by the map are approximate and may not be accurate to mapping, surveying or engineering standards. Verdantas LLC makes no representation or guarantee as to the content, accuracy, timeliness or completeness of any information or spatial location depicted on this map. This map is provided without warranty of any kind, including but not limited to, the implied warranties of merchantability or fitness for a particular purpose. In no event will Verdantas LLC, its owners, officers, employees or agents, be liable for damages of any kind arising out of the use of this map by Client or any other party.

April 2026

PIDC - 49th Street Terminal
Field Sampling

Shallow Soil Sample Exceedances

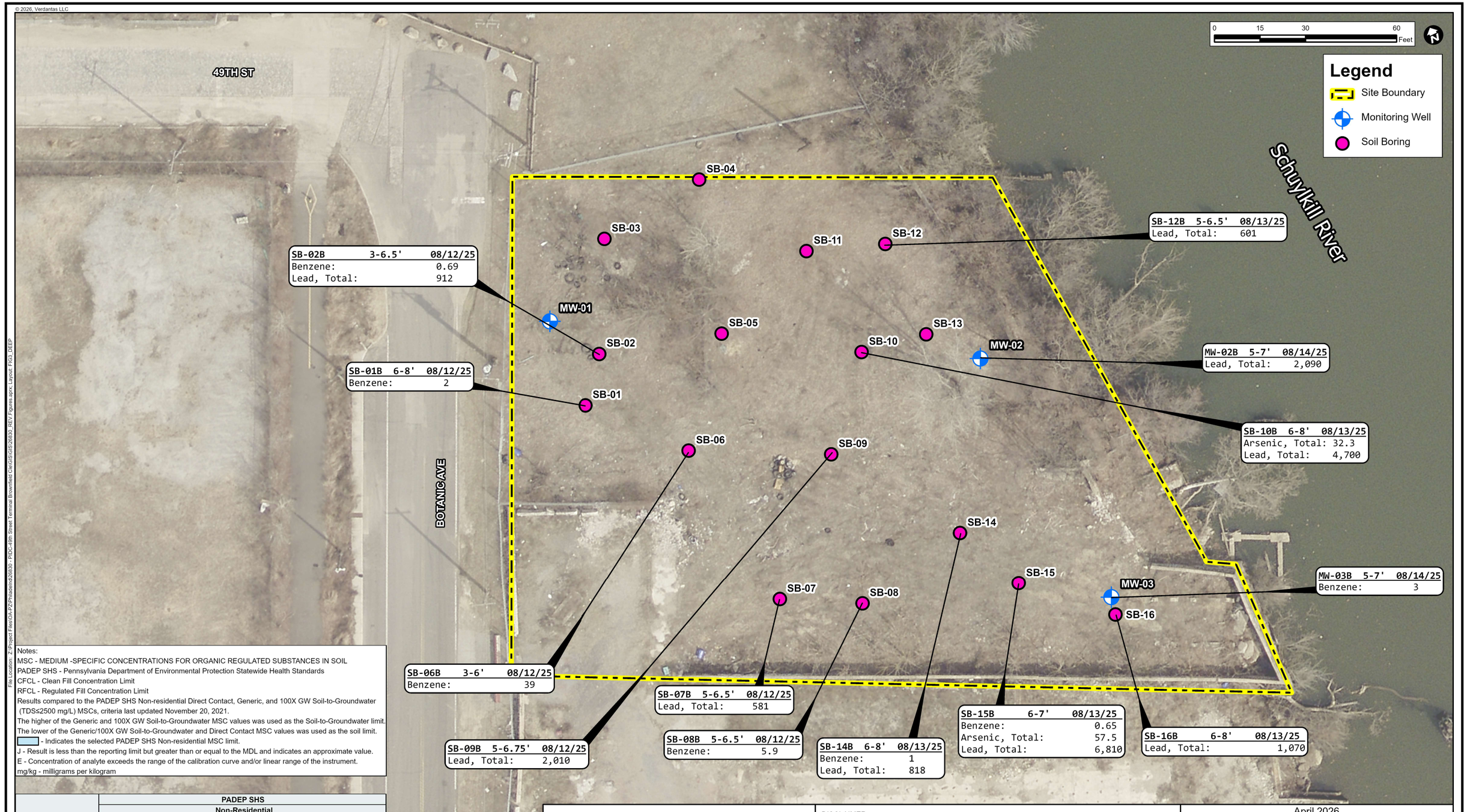
1700 S 49th Street
Philadelphia, PA 19143

Figure 2

Produced Using Esri's ArcGIS Software

Edited: 4/24/2026 User: nfernandez

File Location: Z:\Project Files\OA-P2\Philadelphia\26350 - PIDC-49th Street Terminal Brownfield Cert\GIS\GIS\26350_REV Figures.aprx, Layout: FIG2_SHALLOW



Notes:
MSC - MEDIUM -SPECIFIC CONCENTRATIONS FOR ORGANIC REGULATED SUBSTANCES IN SOIL
PADEP SHS - Pennsylvania Department of Environmental Protection Statewide Health Standards
CFCL - Clean Fill Concentration Limit
RFCL - Regulated Fill Concentration Limit
Results compared to the PADEP SHS Non-residential Direct Contact, Generic, and 100X GW Soil-to-Groundwater (TDS≤2500 mg/L) MSCs, criteria last updated November 20, 2021.
The higher of the Generic and 100X GW Soil-to-Groundwater MSC values was used as the Soil-to-Groundwater limit.
The lower of the Generic/100X GW Soil-to-Groundwater and Direct Contact MSC values was used as the soil limit.
- Indicates the selected PADEP SHS Non-residential MSC limit.
J - Result is less than the reporting limit but greater than or equal to the MDL and indicates an approximate value.
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
mg/kg - milligrams per kilogram

	PADEP SHS Non-Residential			
	Management of Fill Policy RFCL	Soil to Groundwater Generic TDS≤2500	Soil to Groundwater 100X TDS≤2501	Surface Soil Direct Contact 0-2 feet
Target Compound List Volatile Organic Compounds (mg/kg) - EPA 5035 / EPA 5035 High				
Benzene	0.13	0.13	0.5	280
Target Analyte List Metals (mg/kg) - EPA 6010B/7471B				
Arsenic, Total	29	29	1	190000
Lead, Total	450	450	0.5	190000

Source:
1. The aerial photo was acquired through the PASDA City of Philadelphia imagery Web Service. Aerial photography dated 2025.

verdantas

April 2026

PIDC - 49th Street Terminal
Field Sampling

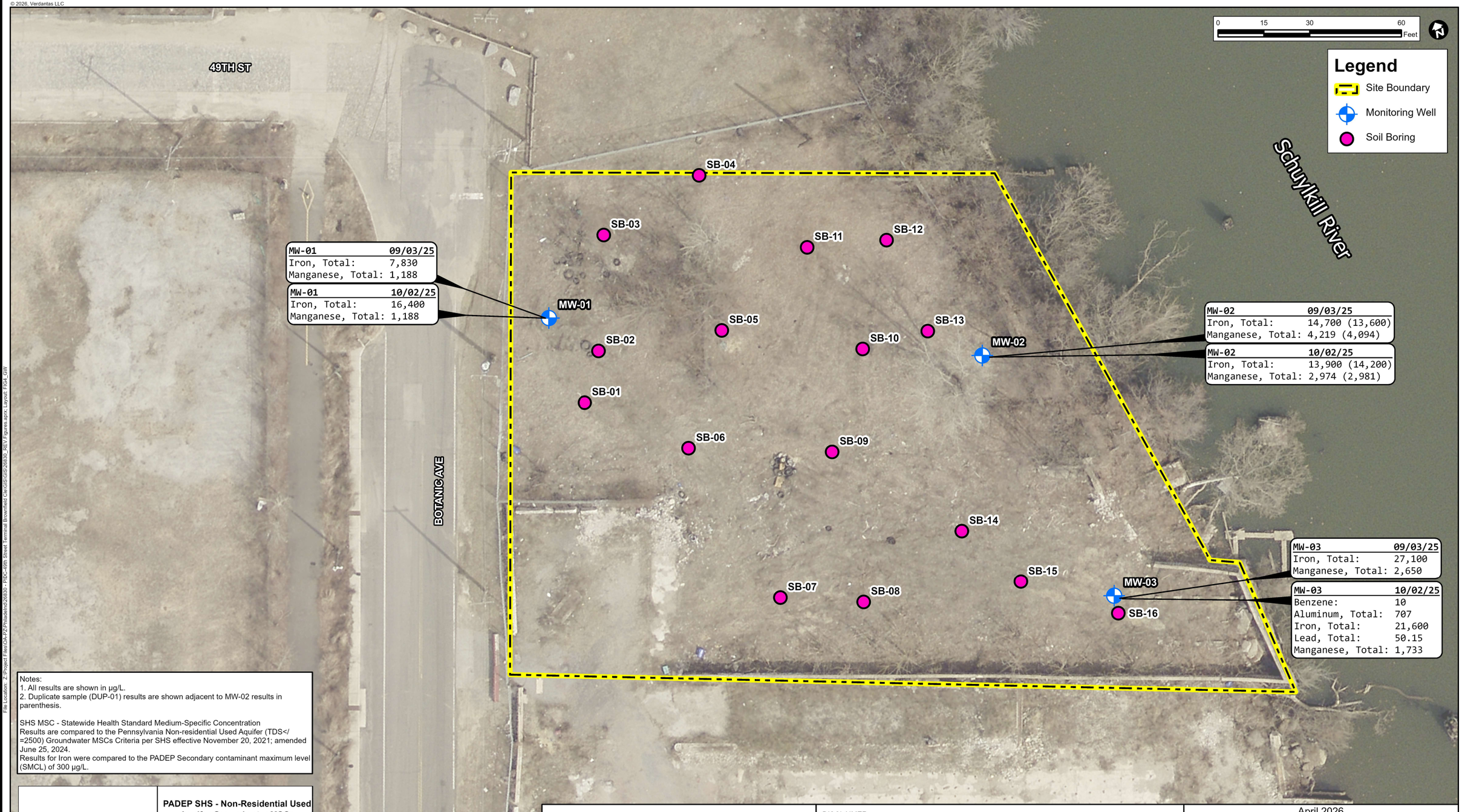
Deep Soil Sample Exceedances

1700 S 49th Street
Philadelphia, PA 19143

Figure 3

Produced Using Esri's ArcGIS Software

Edited: 4/24/2026 User: nfernandez



Notes:
1. All results are shown in µg/L.
2. Duplicate sample (DUP-01) results are shown adjacent to MW-02 results in parenthesis.

SHS MSC - Statewide Health Standard Medium-Specific Concentration
Results are compared to the Pennsylvania Non-residential Used Aquifer (TDS</=2500) Groundwater MSCs Criteria per SHS effective November 20, 2021; amended June 25, 2024.
Results for Iron were compared to the PADEP Secondary contaminant maximum level (SMCL) of 300 µg/L.

	PADEP SHS - Non-Residential Used Aquifer Groundwater MSCs
Target Compound List Volatile Organic Compounds (VOCs) (ug/L)	
Benzene	**5**
Aluminum, Total	**200**
Iron, Total	**300**
Lead, Total	**5**
Manganese, Total	**300**

Source:
1. The aerial photo was acquired through the PASDA City of Philadelphia imagery Web Service. Aerial photography dated 2025.

verdantas

April 2026

PIDC - 49th Street Terminal
Field Sampling
Groundwater Sample Exceedances - September and October 2025
1700 S 49th Street
Philadelphia, PA 19143

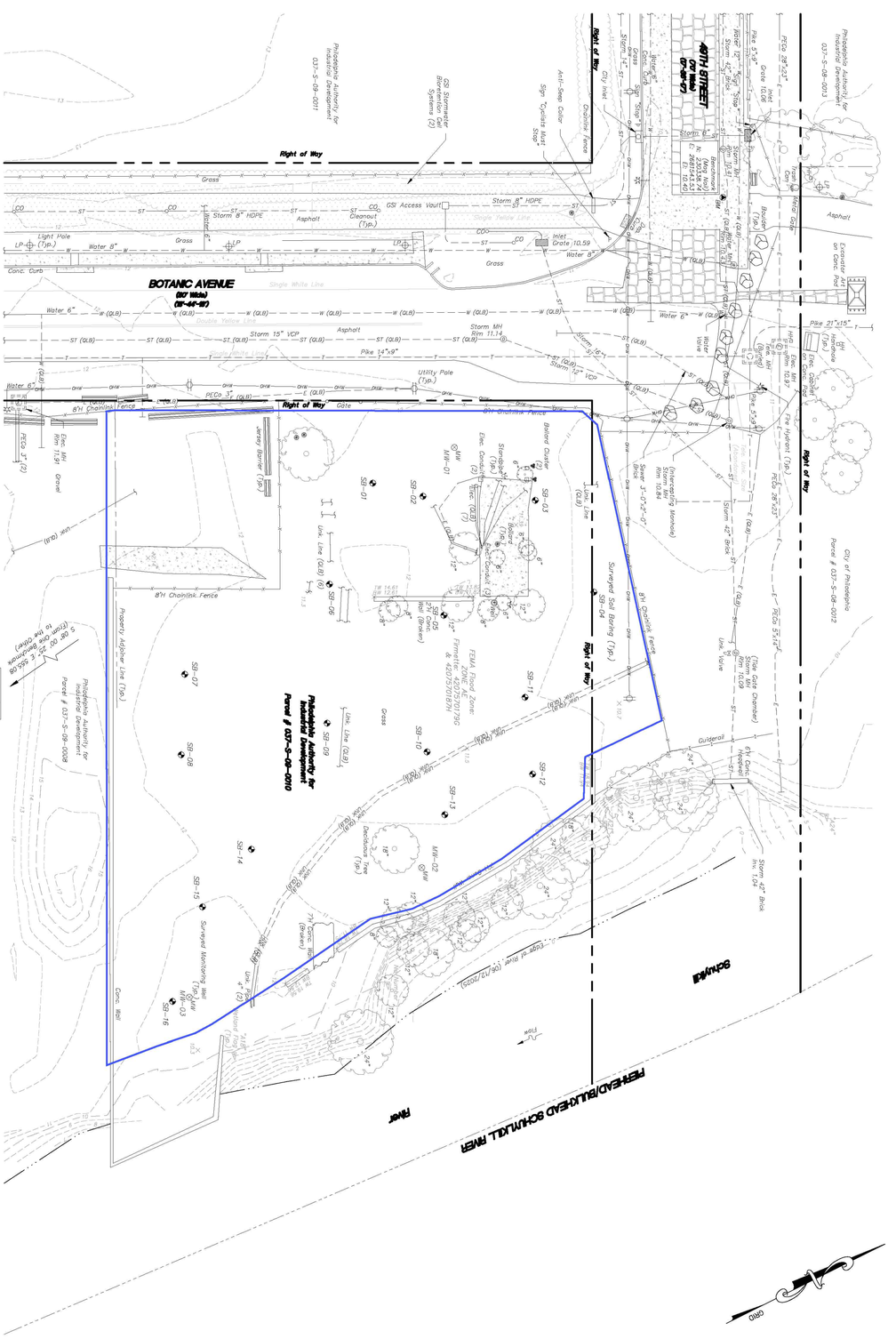
Figure
4

NOTES:

1. THE PURPOSE OF THIS PLAN IS TO DEPICT THE EXISTING SITE CONDITIONS PRESENT AT THE TIME OF THE FIELD SURVEY CONDUCTED DURING THE MONTH OF JUNE, 2025. PORTIONS OF THIS PLAN WERE PREPARED BY SCHNAKENBERG ENVIRONMENTAL, INC. (FORMERLY SCHUYLKILL BIOTECH CAMPUS") PREPARED BY HUNT ENGINEERING COMPANY, LAST REVISED DECEMBER 2, 2024.
2. THE BASIS OF BEARINGS FOR THIS SURVEY IS GRID NORTH (PENNSYLVANIA STATE PLANE SOUTH ZONE NAD83(2011)) AS DERIVED FROM GNSS OBSERVATIONS CONDUCTED DURING THE FIELD SURVEY.
3. RIGHT-OF-WAY LINES AS SHOWN HAVE BEEN PLOTTED FROM THE CITY PLANS RECEIVED AND THEREFORE SHALL BE CONSIDERED APPROXIMATE.
4. PROPERTY LINES AND OWNERS AS SHOWN HAVE BEEN PLOTTED FROM AVAILABLE ONLINE RECORDS AND/OR DEEDS. HUNT ENGINEERING COMPANY, INC. AND/OR ANY OF ITS EMPLOYEES OR AGENTS COMPANY DID NOT PERFORM A BOUNDARY SURVEY, NOR CONDUCT TITLE RESEARCH AND IS NOT RESPONSIBLE FOR ANY DISCREPANCIES.
5. DATUM: HORIZONTAL = PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 83 (2011).
   VERTICAL = NGVD29
6. THE LOCATIONS OF EXISTING UTILITIES SHOWN HEREON SHALL BE CONSIDERED APPROXIMATE AND NOT NECESSARILY ALL INCLUSIVE. THE SURVEYED UTILITY FEATURES, SUCH AS VALVES, MANHOLES, INLET GRATES, MARKOUTS (INDICATED BY EXPRESS, INC. AT THE TIME OF SURVEY, AS WELL AS THE PLANS PROVIDED THROUGH THE PENNSYLVANIA ONE CALL SYSTEM, INC. SERIAL NUMBERS 20251153026, 20251153032, 20251153067, AND 20251153038) ARE ASSUMED UNKNOWN UTILITIES SHOWN ON THIS PLAN WITHOUT SPECIFIED SIZE OR TYPE ARE ASSUMED UNKNOWN.

   THE COMPLETENESS AND ACCURACY OF THE TYPE, SIZE, DEPTH, OR HORIZONTAL LOCATION OF UNDERGROUND UTILITIES AND FACILITIES CANNOT BE GUARANTEED. PURSUANT TO THE REQUIREMENTS OF PENNSYLVANIA ACT 50 OF 2017 AND SUBSEQUENT AMENDMENTS THEREOF, CONTRACTORS MUST "VERIFY" THE LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES PRIOR TO THE START OF WORK.
7. A DESIGN PHASE PENNSYLVANIA ONE CALL WAS PLACED FOR THIS PROJECT ON APRIL 25, 2025 WITH THE FOLLOWING SERIAL NUMBERS: 20251153032, 20251153067, AND 20251153038.
8. INITIAL EXISTING CONDITIONS PLAN WAS PROVIDED BY HUNT ENGINEERING.
9. CONCRETE WALL ALONG THE SOUTHERN BOUNDARY TO BE REMOVED WITHIN THE LIMIT OF THE EXCAVATION.
10. CONCRETE AND PAVEMENTS WILL BE REMOVED.
11. BURIED PIPING WILL BE REMOVED.
12. GROUNDWATER WELL MW-3 WILL BE ABANDONED FOR THE CLEANUP AND REPLACED AT THE CONCLUSION OF THE CLEANUP FOR GROUNDWATER ATTAINMENT MONITORING.
13. EXCAVATION AND DISPOSAL OF 2 TO 4 FEET OF SOIL AND RESTORATION WITH PADEP-CERTIFIED CLEAN FILL TO GRADE AND STABILIZED.

: PROPOSED EXCAVATION BOUNDARY, 2' OFFSET FROM CONCRETE WALL



LEGEND:

COBBLESTONE

CONCRETE

UNDERGROUND WATER (QUALITY LEVEL B)

UNDERGROUND STORMWATER (QUALITY LEVEL B)

UNDERGROUND ELECTRIC (QUALITY LEVEL B)

UNDERGROUND UNKNOWN (QUALITY LEVEL B)

HUNT ENGINEERING COMPANY
101 Lindenwood Drive | Suite 125 | Malvern, PA 19355
610.644.4600 | www.huntengineering.com

EXISTING FEATURES PLAN

49TH STREET TERMINAL

1700 SOUTH 49TH STREET, PHILADELPHIA PA 19143
51ST WARD / PHILADELPHIA 7TH SURVEY DISTRICT
COUNTY OF PHILADELPHIA, COMMONWEALTH OF PENNSYLVANIA

DWG NAME:	2254010 EXPLAN
PROJECT NO:	2254010
SCALE:	1" = 20'
SHEET:	1 OF: 1
DRAWN BY:	E. HEITZENRATER
CHECK BY:	M. KILBY
DATE:	07/08/2025

NO.	DESCRIPTION	DATE	DWN	CK'D
1.	ADDED SURVEYED MONITORING WELLS PER CLIENT REQUEST	10/27/25	EAH	MJK

FIGURE NO. 5

SCALE ##########

DATE 4/24/2026

PHILADELPHIA~PHILADELPHIA COUNTY~PENNSYLVANIA

PIDC - 49TH STREET TERMINAL BROWNFIELD CLEANUP

CLEANUP PLAN

No.	REVISION	CHK'D BY DATE
	PRELIMINARY NOT FOR CONSTRUCTION	

DESIGNED BY ---
DRAWN BY NF
CHECKED BY ---
PROJECT NO. 26830

ENGINEER'S_NAME
STATE:_XXXXXX P.E._#####

verdantas
211 N. 13TH STREET - SUITE 503
PHILADELPHIA, PA 19107
TEL. 215-545-7295

Appendix A:
Sampling Results

Table 1: Historical Soil Sampling Results
49th Street Terminal Site
1700 S 49th Street, Philadelphia, PA 19143

verdantas

Sample ID		PADEP SHS					GP-18C S1	GP-18C S1-D	GP-20B S1	GP-20B S2	AST No. 1 (49TH-T1)	AST No. 2 (49TH-T2)	AST No. 3 (49TH-T3)	AST No. 4 (49TH-T4)	AST No. 4 (49TH-T4)	AST No. 5 (49TH-T5)
		Non-Residential									P4-3	P3-3	C-5	P2-3	P3-3	P1-3FT
Sample Depth (feet)		Used Aquifer			Surface Soil 0-2 feet	Subsurface Soil 2-15 feet	2	2	2	13	3	3	3	3	3	3
Depth to Water Table (feet)		100X GW TDS≤2500	Generic TDS≤2500 (SATURATED)	Generic TDS≤2500 (VADOSE)			4	4	4	4	4	4	4	4	4	4
Grounwater Zone	CAS Number						Vadose	Vadose	Vadose	Vadose	Saturated	Saturated	Saturated	Saturated	Saturated	Saturated
Target Compound List Volatile Organic Compounds (mg/kg)																
Benzene	71-43-2	0.50	0.01	0.13	280.00	330.00	<0.002	<0.00042	<0.00043	<0.00051	0.016	0.028	0.03	0.043	2.50	0.0023
Toluene	108-88-3	100.00	4.40	44.00	10,000.00	10,000.00	<0.00085	<0.00091	<0.0043	<0.0094	0.0024	0.0025	0.011	0.013	0.800	0.012
Target Compound List Semi-Volatile Organic Compounds (mg/kg)																
Anthracene	120-12-7	6.60	35.00	350.00	190,000.00	190,000.00	0.35	6.6	0.68	0.11	5.100	2.200	0.720	550.000	1.000	20.000
Benzo(a)anthracene	56-55-3	0.39	34.00	340.00	130.00	190,000.00	0.63	11	1.6	<0.38	10.000	5.200	2.500	910.000	3.200	23.000
Benzo(a)pyrene	50-32-8	0.02	4.60	46.00	91.00	190,000.00	0.67	8.6	1.4	0.27	8.000	4.700	2.800	610.000	3.500	18.000
Benzo(b)fluoranthene	205-99-2	0.12	17.00	170.00	76.00	190,000.00	1.1	12	2	0.32	11.000	6.400	3.800	680.000	4.400	23.000
Benzo(ghi)perylene	191-24-2	0.026	18.00	180.00	190,000.00	190,000.00	0.470	5.100	0.950	0.130	5.700	3.100	1.600	390.000	2.300	9.700
Chrysene	218-01-9	0.19	23.00	230.00	760.00	190,000.00	0.59	9.4	1.400	0.310	8.500	4.600	2.400	770.000	2.900	62.000
Naphthalene	91-20-3	9.60	1.50	15.00	860.00	990.00	0.3	1.9	<0.068	<0.017	0.004	0.004	0.036	0.058	0.410	0.150
Phenanthrene	85-01-8	110.00	1,000.00	10,000.00	190,000.00	190,000.00	0.81	20.00	2.7	0.25	17.000	7.900	2.300	1600.000	3.200	64.000
Pyrene	129-00-0	13.00	220.00	2,200.00	96,000.00	190,000.00	1.50	20.00	3.9	0.41	25.000	13.000	4.800	1200.000	5.600	62.000
Target Analyte List Metals (mg/kg)																
Lead	7439-92-1	0.50	45.00	450.00	1,000.000	190,000.00	1,100.00	710.00	2,000.00	75.00	NA	NA	NA	NA	NA	NA

Notes:
MSC - MEDIUM -SPECIFIC CONCENTRATIONS FOR ORGANIC REGULATED SUBSTANCES IN SOIL
PADEP SHS - Pennsylvania Department of Environmental Protection Statewide Health Standards
Results compared to the PADEP SHS Non-residential Direct Contact, Generic, and 100X GW MSCs.
Soil-to-Groundwater (TDS≤2500 mg/L) MSCs, criteria last updated November 20, 2021.
The higher of the Generic and 100X GW Soil-to-Groundwater MSC values was used as the Soil-to-Groundwater limit.
The lower of the Generic/100X GW Soil-to-Groundwater and Direct Contact MSC values was used as the soil limit.
Data collected in 2006 by Malcolm Pirnie and Urban Engineers as part of site characterization and tank closure activities.
- Indicates the selected PADEP SHS Non-residential MSC saturated limit.
- Indicates the selected PADEP SHS Non-residential MSC vadose limit.
NA - Not Analyzed
mg/kg - milligrams per kilogram
- The concentration exceeds the selected PADEP SHS Non-residential MSC saturated limit.
- The concentration exceeds the selected PADEP SHS Non-residential MSC vadose limit.

Table 1: Historical Soil Sampling Results
49th Street Terminal Site
1700 S 49th Street, Philadelphia, PA 19143

verdantas

Sample ID		PADEP SHS					AST No. 5 (49TH-T5)	AST No. 6 (49TH-T6)	AST No. 7 (49TH-T7)	AST No. 8 (49TH-T8)
		Non-Residential					P2-3FT	C-5FT	P2-3FT	P2-3
Sample Depth (feet)		Used Aquifer			Surface Soil 0-2 feet	Subsurface Soil 2-15 feet	3	3	3	3
Depth to Water Table (feet)		100X GW TDS≤2500	Generic TDS≤2500 (SATURATED)	Generic TDS≤2500 (VADOSE)			4	4	4	4
Grounwater Zone	CAS Number						Saturated	Saturated	Saturated	Saturated
Target Compound List Volatile Organic Compounds (mg/kg)										
Benzene	71-43-2	0.50	0.01	0.13	280.00	330.00	0.012	0.096	0.002	0.080
Toluene	108-88-3	100.00	4.40	44.00	10,000.00	10,000.00	0.028	0.042	0.002	0.110
Target Compound List Semi-Volatile Organic Compounds (mg/kg)										
Anthracene	120-12-7	6.60	35.00	350.00	190,000.00	190,000.00	0.320	2.900	0.590	0.460
Benzo(a)anthracene	56-55-3	0.39	34.00	340.00	130.00	190,000.00	3.300	3.600	0.550	3.800
Benzo(a)pyrene	50-32-8	0.02	4.60	46.00	91.00	190,000.00	4.900	2.600	0.630	4.900
Benzo(b)fluoranthene	205-99-2	0.12	17.00	170.00	76.00	190,000.00	6.000	3.400	0.500	7.700
Benzo(ghi)perylene	191-24-2	0.026	18.00	180.00	190,000.00	190,000.00	5.300	1.200	0.650	1.600
Chrysene	218-01-9	0.19	23.00	230.00	760.00	190,000.00	3.500	3.300	0.700	4.700
Naphthalene	91-20-3	9.60	1.50	15.00	860.00	990.00	0.150	0.065	17.000	0.060
Phenanthrene	85-01-8	110.00	1,000.00	10,000.00	190,000.00	190,000.00	16.000	11.000	2.900	1.500
Pyrene	129-00-0	13.00	220.00	2,200.00	96,000.00	190,000.00	7.200	8.200	0.950	3.400
Target Analyte List Metals (mg/kg)										
Lead	7439-92-1	0.50	45.00	450.00	1,000.000	190,000.00	NA	NA	NA	NA

Notes:
MSC - MEDIUM -SPECIFIC CONCENTRATIONS FOR ORGANIC REGULATED SUBSTANCES IN SOIL
PADEP SHS - Pennsylvania Department of Environmental Protection Statewide Health Standards
Results compared to the PADEP SHS Non-residential Direct Contact, Generic, and 100X GW MSCs.
Soil-to-Groundwater (TDS≤2500 mg/L) MSCs, criteria last updated November 20, 2021.
The higher of the Generic and 100X GW Soil-to-Groundwater MSC values was used as the Soil-to-Groundwater limit.
The lower of the Generic/100X GW Soil-to-Groundwater and Direct Contact MSC values was used as the soil limit.
Data collected in 2006 by Malcolm Pirnie and Urban Engineers as part of site characterization and tank closure activities.
- Indicates the selected PADEP SHS Non-residential MSC saturated limit.
- Indicates the selected PADEP SHS Non-residential MSC vadose limit.
NA - Not Analyzed
mg/kg - milligrams per kilogram
- The concentration exceeds the selected PADEP SHS Non-residential MSC saturated limit.
- The concentration exceeds the selected PADEP SHS Non-residential MSC vadose limit.

Table 2: Surface Soil Sampling Results - 2025
49th Street Terminal Site
1700 S 49th Street, Philadelphia, PA 19143

verdantas

Sample ID		PADEP SHS			SB-01A			SB-02A			SB-03A			SB-04A			SB-05A			SB-05A			SB-06A			SB-07A			SB-08A			SB-09A		
Lab Sample ID		Non-Residential			L2550677-01			L2550677-03			L2550677-05			L2550677-07			L2550677-08			L2550677-08 R1			L2550677-11			L2550922-01			L2550677-13			L2550677-15		
Date Sampled		Soil to Groundwater Generic TDS≤2500	Soil to Groundwater 100X TDS≤2501	Surface Soil Direct Contact 0 2 feet	8/12/2025			8/12/2025			8/12/2025			8/12/2025			8/12/2025			8/12/2025			8/12/2025			8/13/2025			8/12/2025			8/12/2025		
Sample Depth					0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet		
	CAS Number				Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
Target Compound List Volatile Organic Compounds (mg/kg) - EPA 5035																																		
1,1,1-Trichloroethane	71-55-6	7.2	20	10000	ND		0.00026	ND		0.00022	ND		0.00033	ND		0.00014	ND		0.021	-		-	ND		0.014	ND		0.00022	ND		0.00037	ND		0.022
1,1,2,2-Tetrachloroethane	79-34-5	0.13	0.43	38	ND		0.00026	ND		0.00022	ND		0.00033	ND		0.00014	ND		0.021	-		-	ND		0.014	ND		0.00022	ND		0.00037	ND		0.021
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	10000	4400	10000	ND		0.0011	ND		0.00092	ND		0.0014	ND		0.00058	ND		0.087	-		-	ND		0.059	ND		0.0009	ND		0.0015	ND		0.09
1,1,2-Trichloroethane	79-00-5	0.15	0.5	16	ND		0.00042	ND		0.00035	ND		0.00053	ND		0.00022	ND		0.034	-		-	ND		0.022	ND		0.00035	ND		0.0006	ND		0.034
1,1-Dichloroethane	75-34-3	3.9	16	1400	ND		0.00023	ND		0.00019	ND		0.00029	ND		0.00012	ND		0.018	-		-	ND		0.012	ND		0.00019	ND		0.00032	ND		0.019
1,1-Dichloroethene	75-35-4	0.19	0.7	10000	ND		0.00038	ND		0.00032	ND		0.00047	ND		0.0002	ND		0.03	-		-	ND		0.02	ND		0.00031	ND		0.00053	ND		0.031
1,2,3-Trichlorobenzene	87-61-6	NA	NA	NA	ND		0.00051	ND		0.00043	ND		0.00064	ND		0.00027	ND		0.041	-		-	ND		0.027	ND		0.00042	ND		0.00072	ND		0.042
1,2,4-Trichlorobenzene	120-82-1	27	7	160	ND		0.00043	ND		0.00036	ND		0.00054	ND		0.00023	ND		0.034	-		-	ND		0.023	ND		0.00035	ND		0.00061	ND		0.035
1,2-Dibromo-3-chloropropane	96-12-8	0.0092	0.02	0.37	ND		0.0016	ND		0.0013	ND		0.002	ND		0.00083	ND		0.12	-		-	ND		0.084	ND		0.0013	ND		0.0022	ND		0.13
1,2-Dibromoethane	106-93-4	0.0012	0.005	3.7	ND		0.00047	ND		0.00039	ND		0.00058	ND		0.00024	ND		0.037	-		-	ND		0.025	ND		0.00038	ND		0.00065	ND		0.038
1,2-Dichlorobenzene	95-50-1	59	60	10000	ND		0.00023	ND		0.00019	ND		0.00029	ND		0.00012	ND		0.018	-		-	ND		0.012	ND		0.00019	ND		0.00032	ND		0.019
1,2-Dichloroethane	107-06-2	0.1	0.5	85	ND		0.00041	ND		0.00034	ND		0.00051	ND		0.00021	ND		0.032	-		-	ND		0.022	ND		0.00033	ND		0.00057	0.15		0.033
1,2-Dichloroethene, Total	540-59-0	NA	NA	NA	ND		0.00022	ND		0.00018	ND		0.00027	ND		0.00011	ND		0.017	-		-	ND		0.012	ND		0.00018	ND		0.00031	ND		0.018
1,2-Dichloropropane	78-87-5	0.11	0.5	0.6	ND		0.0002	ND		0.00017	ND		0.00025	ND		0.0001	ND		0.016	-		-	ND		0.01	ND		0.00016	ND		0.00028	ND		0.016
1,3-Dichlorobenzene	541-73-1	61	60	10000	ND		0.00024	ND		0.0002	ND		0.00029	ND		0.00012	ND		0.019	-		-	ND		0.012	ND		0.00019	ND		0.00033	ND		0.019
1,3-Dichloropropene, Total	542-75-6	0.48	2.7	550	ND		0.00025	ND		0.00021	ND		0.00031	ND		0.00013	ND		0.02	-		-	ND		0.013	ND		0.0002	ND		0.00035	ND		0.02
1,4-Dichlorobenzene	106-46-7	10	7.5	200	ND		0.00027	ND		0.00023	ND		0.00034	ND		0.00014	ND		0.022	-		-	ND		0.014	ND		0.00022	ND		0.00038	ND		0.022
1,4-Dioxane	123-91-1	0.35	2.7	440	ND		0.056	ND		0.047	ND		0.07	ND		0.029	ND		4.4	-		-	ND		3	ND		0.046	ND		0.078	ND		4.5
2-Butanone	78-93-3	76	400	10000	ND		0.0035	ND		0.003	ND		0.0044	ND		0.0018	ND		0.28	-		-	0.27	J	0.19	ND		0.0029	ND		0.005	0.54	J	0.29
2-Hexanone	591-78-6	6.4	26	2400	ND		0.0019	ND		0.0016	ND		0.0023	ND		0.00098	ND		0.15	-		-	ND		0.1	ND		0.0015	ND		0.0026	ND		0.15
4-Methyl-2-pentanone	108-10-1	120	780	10000	ND		0.002	ND		0.0017	ND		0.0025	ND		0.0011	ND		0.16	-		-	ND		0.11	ND		0.0017	ND		0.0029	ND		0.16
Acetone	67-64-1	980	8800	10000	ND		0.016	0.015	J	0.013	ND		0.02	ND		0.0083	ND		0.61	-		-	ND		0.41	ND		0.013	ND		0.022	ND		0.62
Benzene	71-43-2	0.13	0.5	280	ND		0.00026	0.00076		0.00022	0.00084	J	0.00033	0.00016	J	0.00014	0.36		0.021	-		-	6.2		0.014	ND		0.00022	0.0077		0.00037	26		0.021
Bromochloromethane	74-97-5	1.6	9	3200	ND		0.00033	ND		0.00027	ND		0.00041	ND		0.00017	ND		0.026	-		-	ND		0.017	ND		0.00026	ND		0.00046	ND		0.026
Bromodichloromethane	75-27-4	2.7	8	60	ND		0.00017	ND		0.00014	ND		0.00022	ND		0.00009	ND		0.014	-		-	ND		0.0092	ND		0.00014	ND		0.00024	ND		0.014
Bromoform	75-25-2	3.5	8	2000	ND		0.00039	ND		0.00033	ND		0.00049	ND		0.0002	ND		0.031	-		-	ND		0.021	ND		0.00032	ND		0.00055	ND		0.032
Bromomethane	74-83-9	0.54	1	400	ND		0.00092	ND		0.00077	ND		0.0012	ND		0.00048	ND		0.073	-		-	ND		0.049	ND		0.00075	ND		0.0013	ND		0.075
Carbon disulfide	75-15-0	530	620	10000	ND		0.0072	ND		0.006	ND		0.009	ND		0.0038	ND		0.57	-		-	ND		0.38	ND		0.0059	ND		0.01	ND		0.59
Carbon tetrachloride	56-23-5	0.26	0.5	370	ND		0.00037	ND		0.0003	ND		0.00046	ND		0.00019	ND		0.029	-		-	ND		0.019	ND		0.0003	ND		0.00051	ND		0.03
Chlorobenzene	108-90-7	6.1	10	3900	ND		0.0002	ND		0.00017	ND		0.00025	ND		0.0001	ND		0.016	-		-	ND		0.011	ND		0.00016	ND		0.00028	ND		0.016
Chloroethane	75-00-3	1900	8800	10000	ND		0.00072	ND		0.0006	ND		0.0009	ND		0.00038	ND		0.057	-		-	ND		0.038	ND		0.00059	ND		0.001	ND		0.058
Chloroform	67-66-3	2	8	96	ND		0.00022	ND		0.00019	ND		0.00028	ND		0.00012	ND		0.018	-		-	ND		0.012	ND		0.00018	ND		0.00031	0.036	J	0.018
Chloromethane	74-87-3	0.38	3	1200	ND		0.0015	ND		0.0012	ND		0.0018	ND		0.00078	ND		0.12	-		-	ND		0.079	ND		0.0012	ND		0.0021	ND		0.12
cis-1,2-Dichloroethene	156-59-2	1.6	7	6400	ND		0.00028	ND		0.00023	ND		0.00035	ND		0.00014	ND		0.022	-		-	ND		0.015	ND		0.00023	ND		0.00039	ND		0.023
cis-1,3-Dichloropropene	10061-01-5	0.61	3.4	560	ND		0.00025	ND		0.00021	ND		0.00031	ND		0.00013	ND		0.02	-		-	ND		0.013	ND		0.0002	ND		0.00035	ND		0.02
Cyclohexane	110-82-7	6900	5300	10000	ND		0.00087	ND		0.00072	ND		0.0011	ND		0.00045	0.86	J	0.069	-		-	0.27	J	0.046	ND		0.0007	0.0012	J	0.0012	0.32	J	0.07
Dibromochloromethane	124-48-1	2.5	8	1100	ND		0.00022	ND		0.00019	ND		0.00028	ND		0.00012	ND		0.018	-		-	ND		0.012	ND		0.00018	ND		0.00031	ND		0.018
Dichlorodifluoromethane	75-71-8	100	100	8000	ND		0.0014	ND		0.0012	ND		0.0018	ND		0.00076	ND		0.12	-		-	ND		0.077	ND		0.0012	ND		0.002	ND		0.12
Ethylbenzene	100-41-4	46	70	880	ND		0.00022	ND		0.00019	ND		0.00028	ND		0.00012	0.26		0.018	-		-	3		0.012	ND		0.00018	0.0013	J	0.00032	1.2		0.018
Isopropylbenzene	98-82-8	2500	350	10000	ND		0.00017	ND		0.00014	ND		0.00022	ND		0.00009	0.96		0.014	-		-	0.11		0.0092	ND		0.00014	ND		0.00024	0.047	J	0.014
Methyl Acetate	79-20-9	1800	9700	10000	ND		0.0015	ND		0.0013	ND		0.0019	ND		0.00079	0.34	J	0.12	-		-	0.52		0.08	ND		0.0012	0.005	J	0.0021	ND		0.12
Methyl cyclohexane	108-87-2	NA	NA	NA	ND		0.00096	ND		0.0008	ND		0.0012	ND		0.0005	7.1		0.076	-		-	0.91		0.051	ND		0.00078	0.0032	J	0.0013	0.76		0.078
Methyl tert butyl ether	1634-04-4	0.28	2	8500	ND		0.00032	ND		0.00027	ND		0.0004	ND		0.00017	ND		0.025	-		-	ND		0.017	ND		0.00026	ND		0.00045	ND		0.026
Methylene chloride	75-09-2	0.076	0.5	10000	ND		0.0036	ND		0.003	ND		0.0046	ND		0.0019	ND		0.29	-		-	0.25	J	0.19	ND		0.003	ND		0.0051	0.33	J	0.3
o-Xylene	95-47-6	990	1000	8000	ND		0.00046	ND		0.00039	ND		0.00058	ND		0.00024	0.15		0.037	-		-	1.9		0.025	ND		0.00038	0.0013	J	0.00065	2.3		0.038
p/m-Xylene	179601-23-1	990	1000	8000	ND		0.00089	ND		0.00074	ND		0.0011	ND		0.00047	0.63		0.071	-		-	11		0.047	ND		0.00073	0.0022	J	0.0012	12		0.072
Styrene	100-42-5	24	10	10000	ND		0.00031	ND		0.00026	ND		0.00039	ND		0.00016	ND		0.025	-		-	ND		0.016	ND		0.00025	ND		0.00044	ND		0.025
Tetrachloroethene	127-18-4	0.43	0.5	3200	ND		0.00031	ND		0.00026	ND		0.00039	ND		0.00016	ND		0.025	-		-	ND		0.016	ND		0.00025	ND		0.00044	ND		0.025
Toluene	108-88-3	44	100	10000	ND		0.00086	ND		0.00072	ND		0.0011	ND		0.00045	0.15		0.068	-		-	4		0.046	ND		0.0007	0.0055		0.0012	19		0.07
trans-1,2-Dichloroethene	156-60-5	2.3	10	10000	ND		0.00022	ND		0.00018	ND		0.00027	ND		0.00011	ND		0.017	-		-	ND		0.012	ND		0.00018	ND		0.00031	ND		0.018
trans-1,3-Dichloropropene	10061-02-6	0.61	3.4	560	ND		0.00043	ND		0.00036	ND		0.00054	ND		0.00023	ND		0.034	-		-	ND		0.023	ND		0.00035	ND		0.00061	ND		0.035
Trichloroethene	79-01-6	0.17	0.5	160	ND		0.00022	ND		0.00018	ND		0.00027	ND		0.00011	ND		0.017	-		-	ND		0.012	ND		0.00018	ND		0.00031	ND		0.018
Trichlorofluoromethane	75-69-4	87	200	10000	ND		0.0011	ND		0.00092	ND		0.0014	ND		0.00058	ND		0.088	-		-	ND		0.059	ND		0.0009	ND		0.0016	ND		0.09
Vinyl chloride	75-01-4	0.027	0.2	61	ND		0.00053	ND		0.00044	ND		0.00067	ND		0.00028	ND		0.042	-		-	ND		0.028	ND		0.00043	ND		0.00075	ND		0.043
Xylenes, Total	1330-20-7	990	1000	7900	ND		0.00046	ND		0.00039	ND		0.00058	ND		0.00024	0.78		0.037	-		-	13		0.025	ND		0.00038	0.0035	J	0.00065	14		0.038
Target Compound List Volatile Organic Compounds (mg/kg) - EPA 5035 HIGH																																		
1,1,1-Trichloroethane	71-55-6	7.2	20	10000	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		0.017	-		-
1,1,2,2-Tetrachloroethane	79-34-5	0.13	0.43	38	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		0.016	-		-
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	10000	4400	10000	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		0.069	-		-
1,1,2-Trichloroethane	79-00-5	0.15	0.5	16	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		0.026	-		-
1,1-Dichloroethane	75-34-3	3.9	16	1400	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		0.014	-		-
1,1-Dichloroethene	75-35-4	0.19	0.7	10000	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		0.024	-		-
1,2,3-Trichlorobenzene	87-61-6	NA	NA	NA	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		0.032	-		-
1,2,4-Trichlorobenzene	120-82-1	27	7	160	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		0.027	-		-
1,2-Dibromo-3-chloropropane	96-12-8	0.0092	0.02	0.37	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		0.099	-		-
1,2-Dibromoethane	106-93-4	0.0012	0.005	3.7	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		0.029	-		-
1,2-Dichlorobenzene	95-50-1	59	60	10000	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		0.014	-		-
1,2-Dichloroethane	107-06-2	0.1	0.5	85	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		0.026	-		-
1,2-Dichloroethene, Total	540-59-0	NA	NA	NA	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		0.014	-		-
1,2-Dichloropropane	78-87-5	0.11	0.5	0.6	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		0.012	-		-
1,3-Dichlorobenzene	541-73-1	61	60	10000	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		0.015	-		-
1,3-Dichloropropene, Total	542-75-6	0.48	2.7	550	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		0.016	-		-
1,4-Dichlorobenzene	106-46-7	10	7.5	200	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		0.017	-		-
1,4-Dioxane	123-91-1	0.35	2.7	440	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		3.5	-		-
2-Butanone	78-93-3	76	400	10000	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		0.22	-		-
2-Hexanone	591-78-6	6.4	26	2400	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		0.12	-		-
4-Methyl-2-pentanone	108-10-1	120	780	10000	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		0.13	-		-
Acetone	67-64-1	980	8800	10000	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		0.48	-		-
Benzene	71-43-2	0.13	0.5	280	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	0.62		0.016	-		-
Bromochloromethane	74-97-5	1.6	9	3200	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		0.02	-		-
Bromodichloromethane	75-27-4	2.7	8	60	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		0.011	-		-
Bromoform	75-25-2	3.5	8	2000	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		0.024	-		-
Bromomethane	74-83-9	0.54	1	400	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		0.058	-		-
Carbon disulfide	75-15-0	530	620	10000	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		0.45	-		-
Carbon tetrachloride	56-23-5	0.26	0.5	370	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		0.023	-		-
Chlorobenzene	108-90-7	6.1	10	3900	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		0.013	-		-
Chloroethane	75-00-3	1900	8800	10000	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		0.045	-		-
Chloroform	67-66-3	2	8	96	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		0.014	-		-
Chloromethane	74-87-3	0.38	3	1200	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		0.093	-		-
cis-1,2-Dichloroethene	156-59-2	1.6	7	6400	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		0.017	-		-
cis-1,3-Dichloropropene	10061-01-5	0.61	3.4	560	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		0.016	-		-
Cyclohexane	110-82-7	6900	5300	10000	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	0.18	J	0.054	-		-
Dibromochloromethane	124-48-1	2.5	8	1100	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		0.014	-		-

Table 2: Surface Soil Sampling Results - 2025
49th Street Terminal Site
1700 S 49th Street, Philadelphia, PA 19143

verdantas

Sample ID		PADEP SHS			SB-10A			SB-11A			SB-12A			SB-13A			SB-14A			SB-15A			SB-16A			MW-01A			MW-02A			MW-03A		
Lab Sample ID		Non-Residential			L2550922-07			L2550922-10			L2550922-12			L2550922-15			L2550922-18			L2550922-20			L2550922-22			L2550922-04			L2551270-01			L2551270-03		
Date Sampled					8/13/2025			8/13/2025			8/13/2025			8/13/2025			8/13/2025			8/13/2025			8/13/2025			8/13/2025			8/14/2025			8/14/2025		
Sample Depth		Soil to Groundwater Generic TDS≤2500	Soil to Groundwater 100X TDS≤2501	Surface Soil Direct Contact 0 2 feet	0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet		
	CAS Number				Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
Target Compound List Volatile Organic Compounds (mg/kg) - EPA 5035																																		
1,1,1-Trichloroethane	71-55-6	7.2	20	10000	ND		0.00046	ND		0.00053	ND		0.00039	ND		0.00037	ND		0.0002	ND		0.00032	ND		0.018	ND		0.00035	ND		0.00029	ND		0.025
1,1,2,2-Tetrachloroethane	79-34-5	0.13	0.43	38	ND		0.00046	ND		0.00053	ND		0.00039	ND		0.00036	ND		0.0002	ND		0.00032	ND		0.018	ND		0.00034	ND		0.00028	ND		0.025
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	10000	4400	10000	ND		0.0019	ND		0.0022	ND		0.0016	ND		0.0015	ND		0.00082	ND		0.0013	ND		0.074	ND		0.0014	ND		0.0012	ND		0.1
1,1,2-Trichloroethane	79-00-5	0.15	0.5	16	ND		0.00074	ND		0.00085	ND		0.00062	ND		0.00059	ND		0.00032	ND		0.00052	ND		0.028	ND		0.00055	ND		0.00046	ND		0.04
1,1-Dichloroethane	75-34-3	3.9	16	1400	ND		0.0004	ND		0.00046	ND		0.00034	ND		0.00032	ND		0.00017	ND		0.00028	ND		0.015	ND		0.0003	ND		0.00025	ND		0.022
1,1-Dichloroethene	75-35-4	0.19	0.7	10000	ND		0.00066	ND		0.00076	ND		0.00056	ND		0.00052	ND		0.00028	ND		0.00046	ND		0.025	ND		0.00049	ND		0.00041	ND		0.036
1,2,3-Trichlorobenzene	87-61-6	NA	NA	NA	ND		0.00089	ND		0.001	ND		0.00075	ND		0.00071	ND		0.00038	ND		0.00062	ND		0.034	ND		0.00067	ND		0.00055	ND		0.049
1,2,4-Trichlorobenzene	120-82-1	27	7	160	ND		0.00076	ND		0.00087	ND		0.00063	ND		0.0006	ND		0.00032	ND		0.00053	ND		0.029	ND		0.00056	ND		0.00047	ND		0.041
1,2-Dibromo-3-chloropropane	96-12-8	0.0092	0.02	0.37	ND		0.0028	ND		0.0032	ND		0.0023	ND		0.0022	ND		0.0012	ND		0.0019	ND		0.11	ND		0.0021	ND		0.0017	ND		0.15
1,2-Dibromoethane	106-93-4	0.0012	0.005	3.7	ND		0.00081	ND		0.00094	ND		0.00068	ND		0.00064	ND		0.00034	ND		0.00057	ND		0.031	ND		0.00061	ND		0.0005	ND		0.044
1,2-Dichlorobenzene	95-50-1	59	60	10000	ND		0.0004	0.00087	J	0.00046	ND		0.00034	ND		0.00032	ND		0.00017	ND		0.00028	ND		0.015	0.00035	J	0.0003	ND		0.00025	ND		0.022
1,2-Dichloroethane	107-06-2	0.1	0.5	85	ND		0.00071	ND		0.00082	ND		0.0006	ND		0.00057	ND		0.0003	ND		0.0005	ND		0.027	ND		0.00053	ND		0.00044	ND		0.039
1,2-Dichloroethene, Total	540-59-0	NA	NA	NA	ND		0.00038	ND		0.00044	ND		0.00032	ND		0.0003	ND		0.00016	ND		0.00026	ND		0.015	ND		0.00028	ND		0.00024	ND		0.021
1,2-Dichloropropane	78-87-5	0.11	0.5	0.6	ND		0.00035	ND		0.0004	ND		0.00029	ND		0.00028	ND		0.00015	ND		0.00024	ND		0.013	ND		0.00026	ND		0.00022	ND		0.019
1,3-Dichlorobenzene	541-73-1	61	60	10000	ND		0.00041	0.00096	J	0.00047	ND		0.00034	ND		0.00033	ND		0.00017	ND		0.00029	ND		0.016	ND		0.00031	ND		0.00025	ND		0.022
1,3-Dichloropropene, Total	542-75-6	0.48	2.7	550	ND		0.00044	ND		0.0005	ND		0.00037	ND		0.00035	ND		0.00019	ND		0.00031	ND		0.017	ND		0.00033	ND		0.00027	ND		0.024
1,4-Dichlorobenzene	106-46-7	10	7.5	200	ND		0.00048	0.00079	J	0.00055	ND		0.0004	ND		0.00038	ND		0.0002	ND		0.00033	ND		0.018	ND		0.00035	ND		0.00029	ND		0.026
1,4-Dioxane	123-91-1	0.35	2.7	440	ND		0.098	ND		0.11	ND		0.082	ND		0.077	ND		0.041	ND		0.068	ND		3.7	ND		0.073	ND		0.06	ND		5.3
2-Butanone	78-93-3	76	400	10000	ND		0.0062	ND		0.0071	ND		0.0052	ND		0.0049	ND		0.0026	ND		0.0043	ND		0.24	ND		0.0046	ND		0.0038	ND		0.34
2-Hexanone	591-78-6	6.4	26	2400	ND		0.0033	ND		0.0038	ND		0.0028	ND		0.0026	ND		0.0014	ND		0.0023	ND		0.13	ND		0.0024	ND		0.002	ND		0.18
4-Methyl-2-pentanone	108-10-1	120	780	10000	ND		0.0036	ND		0.0041	ND		0.003	ND		0.0028	ND		0.0015	ND		0.0025	ND		0.14	ND		0.0026	ND		0.0022	ND		0.19
Acetone	67-64-1	980	8800	10000	ND		0.028	ND		0.032	ND		0.023	ND		0.022	ND		0.012	ND		0.019	ND		0.51	ND		0.021	ND		0.017	5.2		0.73
Benzene	71-43-2	0.13	0.5	280	ND		0.00046	0.017		0.00053	0.00096	J	0.00039	ND		0.00036	0.0023		0.0002	0.00074	J	0.00032	14		0.018	0.0075		0.00034	0.00032	J	0.00028	2.4		0.025
Bromochloromethane	74-97-5	1.6	9	3200	ND		0.00057	ND		0.00066	ND		0.00048	ND		0.00045	ND		0.00024	ND		0.0004	ND		0.022	ND		0.00042	ND		0.00035	ND		0.031
Bromodichloromethane	75-27-4	2.7	8	60	ND		0.0003	ND		0.00035	ND		0.00025	ND		0.00024	ND		0.00013	ND		0.00021	ND		0.012	ND		0.00023	ND		0.00019	ND		0.016
Bromoform	75-25-2	3.5	8	2000	ND		0.00068	ND		0.00079	ND		0.00057	ND		0.00054	ND		0.00029	ND		0.00048	ND		0.026	ND		0.00051	ND		0.00042	ND		0.037
Bromomethane	74-83-9	0.54	1	400	ND		0.0016	ND		0.0018	ND		0.0014	ND		0.0013	ND		0.00068	ND		0.0011	ND		0.062	ND		0.0012	ND		0.001	ND		0.088
Carbon disulfide	75-15-0	530	620	10000	ND		0.013	ND		0.014	ND		0.011	ND		0.01	ND		0.0054	ND		0.0088	ND		0.49	ND		0.0094	ND		0.0078	ND		0.69
Carbon tetrachloride	56-23-5	0.26	0.5	370	ND		0.00064	ND		0.00074	ND		0.00054	ND		0.00051	ND		0.00027	ND		0.00044	ND		0.024	ND		0.00048	ND		0.0004	ND		0.035
Chlorobenzene	108-90-7	6.1	10	3900	ND		0.00035	ND		0.00041	ND		0.0003	ND		0.00028	ND		0.00015	ND		0.00025	ND		0.014	ND		0.00026	ND		0.00022	ND		0.019
Chloroethane	75-00-3	1900	8800	10000	ND		0.0012	ND		0.0014	ND		0.001	ND		0.001	ND		0.00053	ND		0.00088	ND		0.048	ND		0.00094	ND		0.00078	ND		0.068
Chloroform	67-66-3	2	8	96	ND		0.00039	ND		0.00045	ND		0.00033	ND		0.00031	ND		0.00016	ND		0.00027	ND		0.015	ND		0.00029	ND		0.00024	ND		0.021
Chloromethane	74-87-3	0.38	3	1200	ND		0.0026	ND		0.003	ND		0.0022	ND		0.002	ND		0.0011	ND		0.0018	ND		0.1	ND		0.0019	ND		0.0016	ND		0.14
cis-1,2-Dichloroethene	156-59-2	1.6	7	6400	ND		0.00049	ND		0.00056	ND		0.00041	ND		0.00038	ND		0.00021	ND		0.00034	ND		0.019	ND		0.00036	ND		0.0003	ND		0.026
cis-1,3-Dichloropropene	10061-01-5	0.61	3.4	560	ND		0.00044	ND		0.0005	ND		0.00037	ND		0.00035	ND		0.00019	ND		0.00031	ND		0.017	ND		0.00033	ND		0.00027	ND		0.024
Cyclohexane	110-82-7	6900	5300	10000	ND		0.0015	0.0055	J	0.0017	ND		0.0013	ND		0.0012	ND		0.00064	ND		0.001	0.73	J	0.058	ND		0.0011	ND		0.00094	4.4		0.082
Dibromochloromethane	124-48-1	2.5	8	1100	ND		0.00039	ND		0.00045	ND		0.00033	ND		0.00031	ND		0.00016	ND		0.00027	ND		0.015	ND		0.00029	ND		0.00024	ND		0.021
Dichlorodifluoromethane	75-71-8	100	100	8000	ND		0.0025	ND		0.0029	ND		0.0021	ND		0.002	ND		0.0011	ND		0.0018	ND		0.098	ND		0.0019	ND		0.0016	ND		0.14
Ethylbenzene	100-41-4	46	70	880	ND		0.00039	0.0015	J	0.00045	ND		0.00033	ND		0.00031	0.00018	J	0.00017	0.00033	J	0.00027	7.1		0.015	0.0018	J	0.00029	ND		0.00024	4.8		0.021
Isopropylbenzene	98-82-8	2500	350	10000	ND		0.0003	0.00036	J	0.00035	ND		0.00025	ND		0.00024	ND		0.00013	ND		0.00021	0.55		0.012	0.00038	J	0.00023	ND		0.00019	3		0.016
Methyl Acetate	79-20-9	1800	9700	10000	ND		0.0026	ND		0.003	ND		0.0022	ND		0.0021	ND		0.0011	ND		0.0018	ND		0.1	ND		0.002	ND		0.0016	ND		0.14
Methyl cyclohexane	108-87-2	NA	NA	NA	ND		0.0017	0.012	J	0.0019	ND		0.0014	ND		0.0013	0.0028	J	0.00071	ND		0.0012	1.7		0.064	0.0058	J	0.0012	ND		0.001	26		0.091
Methyl tert butyl ether	1634-04-4	0.28	2	8500	ND		0.00056	ND		0.00064	ND		0.00047	ND		0.00044	ND		0.00024	ND		0.00039	ND		0.021	ND		0.00042	ND		0.00035	ND		0.03
Methylene chloride	75-09-2	0.076	0.5	10000	ND		0.0064	ND		0.0073	ND		0.0053	ND		0.005	ND		0.0027	ND		0.0044	ND		0.24	ND		0.0048	ND		0.0039	ND		0.34
o-Xylene	95-47-6	990	1000	8000	ND		0.00081	0.0015	J	0.00093	ND		0.00068	ND		0.00064	ND		0.00034	ND		0.00056	1.4		0.031	0.0012	J	0.0006	ND		0.0005	2.1		0.044
p/m-Xylene	179601-23-1	990	1000	8000	ND		0.0016	0.0091		0.0018	ND		0.0013	ND		0.0012	0.00091	J	0.00066	ND		0.0011	17		0.06	0.0054		0.0012	ND		0.00096	9.4		0.084
Styrene	100-42-5	24	10	10000	ND		0.00054	ND		0.00063	ND		0.00046	ND		0.00043	ND		0.00023	ND		0.00038	ND		0.021	ND		0.00041	ND		0.00034	ND		0.03
Tetrachloroethene	127-18-4	0.43	0.5	3200	ND		0.00054	ND		0.00063	ND		0.00046	ND		0.00043	ND		0.00023	ND		0.00038	ND		0.021	ND		0.00041	ND		0.00034	ND		0.03
Toluene	108-88-3	44	100	10000	ND		0.0015	0.0045		0.0017	ND		0.0013	ND		0.0012	0.0014		0.00064	ND		0.001	3.6		0.058	0.0087		0.0011	ND		0.00093	1.9		0.082
trans-1,2-Dichloroethene	156-60-5	2.3	10	10000	ND		0.00038	ND		0.00044	ND		0.00032	ND		0.0003	ND		0.00016	ND		0.00026	ND		0.015	ND		0.00028	ND		0.00024	ND		0.021
trans-1,3-Dichloropropene	10061-02-6	0.61	3.4	560	ND		0.00076	ND		0.00087	ND		0.00064	ND		0.0006	ND		0.00032	ND		0.00053	ND		0.029	ND		0.00057	ND		0.00047	ND		0.041
Trichloroethene	79-01-6	0.17	0.5	160	ND		0.00038	ND		0.00044	ND		0.00032	ND		0.0003	ND		0.00016	ND		0.00026	ND		0.015	ND		0.00028	ND		0.00024	ND		0.021
Trichlorofluoromethane	75-69-4	87	200	10000	ND		0.0019	ND		0.0022	ND		0.0016	ND		0.0015	ND		0.00082	ND		0.0013	ND		0.074	ND		0.0014	ND		0.0012	ND		0.1
Vinyl chloride	75-01-4	0.027	0.2	61	ND		0.00093	ND		0.0011	ND		0.00078	ND		0.0007	ND		0.00074	ND		0.0004	ND		0.036	ND		0.0007	ND		0.00058	ND		0.05
Xylenes, Total	1330-20-7	990	1000	7900	ND		0.00081	0.011	J	0.00093	ND		0.00068	ND		0.00064	0.00091	J	0.00034	ND		0.00056	18		0.031	0.0066	J	0.0006	ND		0.0005	12		0.044
Target Compound List Volatile Organic Compounds (mg/kg) - EPA 5035 HIGH																																		
1,1,1-Trichloroethane	71-55-6	7.2	20	10000	-		-	ND		0.061	-		-	-		-	-		-	-		-	-		-	ND		0.012	-		-	-		-
1,1,2,2-Tetrachloroethane	79-34-5	0.13	0.43	38	-		-	ND		0.061	-		-	-		-	-		-	-		-	-		-	ND		0.012	-		-	-		-
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	10000	4400	10000	-		-	ND		0.25	-		-	-		-	-		-	-		-	-		-	ND		0.051	-		-	-		-
1,1,2-Trichloroethane	79-00-5	0.15	0.5	16	-		-	ND		0.098	-		-	-		-	-		-	-		-	-		-	ND		0.02	-		-	-		-
1,1-Dichloroethane	75-34-3	3.9	16	1400	-		-	ND		0.053	-		-	-		-	-		-	-		-	-		-	ND		0.011	-		-	-		-
1,1-Dichloroethene	75-35-4	0.19	0.7	10000	-		-	ND		0.087	-		-	-		-	-		-	-		-	-		-	ND		0.018	-		-	-		-
1,2,3-Trichlorobenzene	87-61-6	NA	NA	NA	-		-	ND		0.12	-		-	-		-	-		-	-		-	-		-	ND		0.024	-		-	-		-
1,2,4-Trichlorobenzene	120-82-1	27	7	160	-		-	ND		0.1	-		-	-		-	-		-	-		-	-		-	ND		0.02	-		-	-		-
1,2-Dibromo-3-chloropropane	96-12-8	0.0092	0.02	0.37	-		-	ND		0.37	-		-	-		-	-		-	-		-	-		-	ND		0.074	-		-	-		-
1,2-Dibromoethane	106-93-4	0.0012	0.005	3.7	-		-	ND		0.11	-		-	-		-	-		-	-		-	-		-	ND		0.022	-		-	-		-
1,2-Dichlorobenzene	95-50-1	59	60	10000	-		-	ND		0.053	-		-	-		-	-		-	-		-	-		-	ND		0.011	-		-	-		-
1,2-Dichloroethane	107-06-2	0.1	0.5	85	-		-	ND		0.094	-		-	-		-	-		-	-		-	-		-	ND		0.019	-		-	-		-
1,2-Dichloroethene, Total	540-59-0	NA	NA	NA	-		-	ND		0.05	-		-	-		-	-		-	-		-	-		-	ND		0.01	-		-	-		-
1,2-Dichloropropane	78-87-5	0.11	0.5	0.6	-		-	ND		0.046	-		-	-		-	-		-	-		-	-		-	ND		0.0092	-		-	-		-
1,3-Dichlorobenzene	541-73-1	61	60	10000	-		-	ND		0.054	-		-	-		-	-		-	-		-	-		-	ND		0.011	-		-	-		-
1,3-Dichloropropene, Total	542-75-6	0.48	2.7	550	-		-	ND		0.058	-		-	-		-	-		-	-		-	-		-	ND		0.012	-		-	-		-
1,4-Dichlorobenzene	106-46-7	10	7.5	200	-		-	ND		0.063	-		-	-		-	-		-	-		-	-		-	ND		0.013	-		-	-		-
1,4-Dioxane	123-91-1	0.35	2.7	440	-		-	ND		13	-		-	-		-	-		-	-		-	-		-	ND		2.6	-		-	-		-
2-Butanone	78-93-3	76	400	10000	-		-	ND		0.82	-		-	-		-	-		-	-		-	-		-	ND		0.16	-		-	-		-
2-Hexanone	591-78-6	6.4	26	2400	-		-	ND		0.43	-		-	-		-	-		-	-		-	-		-	ND		0.087	-		-	-		-
4-Methyl-2-pentanone	108-10-1	120	780	10000	-		-	ND		0.47	-		-	-		-	-		-	-		-	-		-	ND		0.094	-		-	-		-
Acetone	67-64-1	980	8800	10000	-		-	ND		1.8	-		-	-		-	-		-	-		-	-		-	ND		0.35	-		-	-		-
Benzene	71-43-2	0.13	0.5	280	-		-	6.8		0.061	-		-	-		-	-		-	-		-	-		-	0.57		0.012	-		-	-		-
Bromochloromethane	74-97-5	1.6	9	3200	-		-	ND		0.075	-		-	-		-	-		-	-		-	-		-	ND		0.015	-		-	-		-
Bromodichloromethane	75-27-4	2.7	8	60	-		-	ND		0.04	-		-	-		-	-		-	-		-	-		-	ND		0.008	-		-	-		-
Bromoform	75-25-2	3.5	8	2000	-		-	ND		0.09	-		-	-		-	-		-	-		-	-		-	ND		0.018	-		-	-		-
Bromomethane	74-83-9	0.54	1	400	-		-	ND		0.21	-		-	-		-	-		-	-		-	-		-	ND		0.043	-		-	-		-
Carbon disulfide	75-15-0	530	620	10000	-		-	ND		1.7	-		-	-		-	-		-	-		-	-		-	ND		0.34	-		-	-		-
Carbon tetrachloride	56-23-5	0.26	0.5	370	-		-	ND		0.084	-		-	-		-	-		-	-		-	-		-	ND		0.017	-		-	-		-
Chlorobenzene	108-90-7	6.1	10	3900	-		-	ND		0.047	-		-	-		-	-		-	-		-	-		-	ND		0.0094	-		-	-		-
Chloroethane	75-00-3	1900	8800	10000	-		-	ND		0.17	-		-	-		-	-		-	-		-	-		-	ND		0.033	-		-	-		-
Chloroform	67-66-3	2	8	96	-		-	ND		0.051	-		-	-		-	-		-	-		-	-		-	ND		0.01	-		-	-		-
Chloromethane	74-87-3	0.38	3	1200	-		-	ND		0.34	-		-	-		-	-		-	-		-	-		-	ND		0.069	-		-	-		-
cis-1,2-Dichloroethene	156-59-2	1.6	7	6400	-		-	ND		0.064	-		-	-		-	-		-	-		-	-		-	ND		0.013	-		-	-		-
cis-1,3-Dichloropropene	10061-01-5	0.61	3.4	560	-		-	ND		0.058	-		-	-		-	-		-	-		-	-		-	ND		0.012	-		-	-		-
Cyclohexane	110-82-7	6900	5300	10000	-		-	1.5	J	0.2	-		-	-		-	-		-	-		-	-		-	0.2	J	0.04	-		-	-		-
Dibromochloromethane	124-48-1	2.5	8	1100	-		-	ND		0.051	-		-	-		-	-		-	-		-	-		-	ND		0.01	-		-	-		-

Table 2: Surface Soil Sampling Results - 2025
49th Street Terminal Site
1700 S 49th Street, Philadelphia, PA 19143

verdantas

Sample ID		PADEP SHS			SB-01A			SB-02A			SB-03A			SB-04A			SB-05A			SB-05A			SB-06A			SB-07A			SB-08A			SB-09A		
Lab Sample ID		Non-Residential			L2550677-01			L2550677-03			L2550677-05			L2550677-07			L2550677-08			L2550677-08 R1			L2550677-11			L2550922-01			L2550677-13			L2550677-15		
Date Sampled					8/12/2025			8/12/2025			8/12/2025			8/12/2025			8/12/2025			8/12/2025			8/12/2025			8/13/2025			8/12/2025			8/12/2025		
Sample Depth		Soil to Groundwater Generic TDS≤2500	Soil to Groundwater 100X TDS≤2501	Surface Soil Direct Contact 0 2 feet	0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet		
	CAS Number				Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
Dichlorodifluoromethane	75-71-8	100	100	8000	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		0.091	-		-
Ethylbenzene	100-41-4	46	70	880	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	0.46		0.014	-		-
Isopropylbenzene	98-82-8	2500	350	10000	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	0.12		0.011	-		-
Methyl Acetate	79-20-9	1800	9700	10000	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		0.094	-		-
Methyl cyclohexane	108-87-2	NA	NA	NA	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	1		0.06	-		-
Methyl tert butyl ether	1634-04-4	0.28	2	8500	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		0.02	-		-
Methylene chloride	75-09-2	0.076	0.5	10000	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	0.37	J	0.23	-		-
o-Xylene	95-47-6	990	1000	8000	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	0.64		0.029	-		-
p/m-Xylene	179601-23-1	990	1000	8000	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	1.2		0.056	-		-
Styrene	100-42-5	24	10	10000	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		0.02	-		-
Tetrachloroethene	127-18-4	0.43	0.5	3200	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		0.02	-		-
Toluene	108-88-3	44	100	10000	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	1.1		0.054	-		-
trans-1,2-Dichloroethene	156-60-5	2.3	10	10000	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		0.014	-		-
trans-1,3-Dichloropropene	10061-02-6	0.61	3.4	560	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		0.027	-		-
Trichloroethene	79-01-6	0.17	0.5	160	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		0.014	-		-
Trichlorofluoromethane	75-69-4	87	200	10000	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		0.069	-		-
Vinyl chloride	75-01-4	0.027	0.2	61	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	ND		0.033	-		-
Xylenes, Total	1330-20-7	990	1000	7900	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	1.8		0.029	-		-
Target Compound List Semi-Volatile Organic Compounds (mg/kg) - EPA 8270D																																		
1,2,4,5-Tetrachlorobenzene	95-94-3	13	2.9	960	ND		0.018	ND		0.019	ND		0.02	ND		0.47	ND		0.2	-		-	ND		0.063	ND		0.018	ND		0.1	ND		0.2
1,4-Dioxane	123-91-1	0.35	2.7	440	ND		0.0081	ND		0.0084	ND		0.0089	ND		0.21	ND		0.09	-		-	ND		0.028	ND		0.0079	ND		0.044	ND		0.089
2,3,4,6-Tetrachlorophenol	58-90-2	4500	290	96000	ND		0.036	ND		0.037	ND		0.04	ND		0.92	ND		0.4	-		-	ND		0.12	0.066	J	0.035	ND		0.19	ND		0.4
2,4,5-Trichlorophenol	95-95-4	5900	970	190000	ND		0.034	ND		0.035	ND		0.038	ND		0.87	ND		0.38	-		-	ND		0.12	0.035	J	0.033	ND		0.18	ND		0.38
2,4,6-Trichlorophenol	88-06-2	28	9.7	3200	ND		0.034	ND		0.035	ND		0.037	ND		0.86	ND		0.37	-		-	ND		0.11	ND		0.033	ND		0.18	ND		0.37
2,4-Dichlorophenol	120-83-2	1	2	9600	ND		0.028	ND		0.03	ND		0.031	ND		0.73	ND		0.32	-		-	ND		0.097	ND		0.028	ND		0.15	ND		0.32
2,4-Dimethylphenol	105-67-9	83	190	10000	ND		0.059	ND		0.061	ND		0.064	ND		1.5	ND		0.65	-		-	0.97		0.2	ND		0.057	ND		0.32	ND		0.65
2,4-Dinitrophenol	51-28-5	2.1	19	6400	ND		0.083	ND		0.086	ND		0.091	ND		2.1	ND		0.92	-		-	ND		0.28	ND		0.08	ND		0.44	ND		0.91
2,4-Dinitrotoluene	121-14-2	0.21	0.88	290	ND		0.036	ND		0.037	ND		0.039	ND		0.91	ND		0.39	-		-	ND		0.12	ND		0.034	ND		0.19	ND		0.39
2,6-Dinitrotoluene	606-20-2	0.053	0.18	61	ND		0.03	ND		0.032	ND		0.034	ND		0.78	ND		0.34	-		-	ND		0.1	ND		0.03	ND		0.16	ND		0.34
2-Chloronaphthalene	91-58-7	17000	780	190000	ND		0.018	ND		0.018	ND		0.019	ND		0.45	ND		0.2	-		-	ND		0.06	ND		0.017	ND		0.095	ND		0.19
2-Chlorophenol	95-57-8	4.4	4	10000	ND		0.021	ND		0.022	ND		0.023	ND		0.54	ND		0.23	-		-	ND		0.072	ND		0.02	ND		0.11	ND		0.23
2-Methylnaphthalene	91-57-6	100	2.6	240	0.3		0.021	ND		0.022	0.05	J	0.024	0.99	J	0.55	24		0.24	-		-	4.4		0.073	ND		0.021	0.24	J	0.12	2.6		0.24
2-Methylphenol	95-48-7	81	490	160000	ND		0.028	ND		0.029	ND		0.03	ND		0.7	ND		0.3	-		-	ND		0.094	ND		0.027	ND		0.15	ND		0.3
2-Nitroaniline	88-74-4	0.0079	0.044	3.9	ND		0.034	ND		0.036	ND		0.038	ND		0.88	ND		0.38	-		-	ND		0.12	ND		0.033	ND		0.18	ND		0.38
2-Nitrophenol	88-75-5	16	78	26000	ND		0.067	ND		0.069	ND		0.074	ND		1.7	ND		0.74	-		-	ND		0.23	ND		0.065	ND		0.36	ND		0.74
3,3'-Dichlorobenzidine	91-94-1	33	0.6	200	ND		0.047	ND		0.049	ND		0.052	ND		1.2	ND		0.52	-		-	ND		0.16	ND		0.046	ND		0.25	ND		0.52
3-Methylphenol/4-Methylphenol	108-39-4/106-44-5	11	49	10000	ND		0.028	ND		0.029	0.036	J	0.031	ND		0.71	0.34	J	0.31	-		-	0.16	J	0.095	ND		0.027	ND		0.15	ND		0.31
3-Nitroaniline	99-09-2	NA	NA	NA	ND		0.034	ND		0.035	ND		0.037	ND		0.86	ND		0.37	-		-	ND		0.11	ND		0.032	ND		0.18	ND		0.37
4,6-Dinitro-o-cresol	534-52-1	NA	NA	NA	ND		0.085	ND		0.088	ND		0.094	ND		2.2	ND		0.94	-		-	ND		0.29	ND		0.083	ND		0.46	ND		0.94
4-Bromophenyl phenyl ether	101-55-3	NA	NA	NA	ND		0.027	ND		0.028	ND		0.03	ND		0.69	ND		0.3	-		-	ND		0.092	ND		0.026	ND		0.14	ND		0.3
4-Chloroaniline	106-47-8	1.8	1.4	460	ND		0.032	ND		0.034	ND		0.036	ND		0.83	ND		0.36	-		-	ND		0.11	ND		0.031	ND		0.17	ND		0.36
4-Chlorophenyl phenyl ether	7005-72-3	NA	NA	NA	ND		0.019	ND		0.02	ND		0.021	ND		0.48	ND		0.21	-		-	ND		0.065	ND		0.018	ND		0.1	ND		0.21
4-Nitroaniline	100-01-6	2.1	14	4600	ND		0.074	ND		0.076	ND		0.081	ND		1.9	ND		0.82	-		-	ND		0.25	ND		0.071	ND		0.4	ND		0.81
4-Nitrophenol	100-02-7	4.1	6	26000	ND		0.072	ND		0.075	ND		0.08	ND		1.8	ND		0.8	-		-	ND		0.25	ND		0.07	ND		0.39	ND		0.8
Acenaphthene	83-32-9	4700	380	190000	0.079	J	0.018	ND		0.019	0.068	J	0.02	0.93	J	0.47	22		0.2	-		-	0.54		0.063	0.024	J	0.018	ND		0.099	0.22	J	0.2
Acenaphthylene	208-96-8	6600	580	190000	0.07	J	0.027	ND		0.028	0.12	J	0.03	ND		0.7	0.66	J	0.3	-		-	ND		0.094	0.032	J	0.027	0.16	J	0.15	3.6		0.3
Acetophenone	98-86-2	520	970	10000	ND		0.022	ND		0.023	ND		0.024	ND		0.56	ND		0.24	-		-	ND		0.075	ND		0.021	ND		0.12	ND		0.24
Anthracene	120-12-7	350	6.6	190000	0.19		0.035	ND		0.036	0.21		0.038	3.2		0.88	68		0.38	-		-	0.41		0.12	0.078	J	0.034	0.36	J	0.19	4.5		0.38
Atrazine	1912-24-9	0.13	0.3	400	ND		0.062	ND		0.064	ND		0.068	ND		1.6	ND		0.69	-		-	ND		0.21	ND		0.06	ND		0.33	ND		0.69
Benzaldehyde	100-52-7	NA	NA	NA	ND		0.048	ND		0.05	ND		0.053	ND		1.2	ND		0.53	-		-	ND		0.16	ND		0.046	ND		0.26	ND		0.53
Benzo(a)anthracene	56-55-3	340	0.39	130	0.55		0.02	ND		0.021	0.79		0.022	7.2		0.51	98	E	0.22	99		1.1	0.23	J	0.068	0.29		0.019	2.1		0.11	21		0.22
Benzo(a)pyrene	50-32-8	46	0.02	91	0.5		0.043	ND		0.045	0.84		0.048	6.3		1.1	88	E	0.48	80		2.4	0.23	J	0.15	0.26		0.042	2.5		0.23	22		0.48
Benzo(b)fluoranthene	205-99-2	170	0.12	76	0.68		0.03	ND		0.031	1		0.033	9.1		0.76	110	E	0.33	98		1.6	0.26	J	0.1	0.36		0.029	2.8		0.16	28		0.33
Benzo(ghi)perylene	191-24-2	180	0.026	190000	0.31		0.021	ND		0.022	0.51		0.023	4.2		0.53	51		0.23	-		-	0.48		0.071	0.16		0.02	1.6		0.11	14		0.23
Benzo(k)fluoranthene	207-08-9	610	0.055	76	0.21		0.028	ND		0.03	0.3		0.031	2	J	0.73	26		0.32	-		-	0.12	J	0.097	0.098	J	0.028	0.93		0.15	8.9		0.31
Biphenyl	92-52-4	1.5	0.35	34	0.03	J	0.023	ND		0.024	ND		0.025	ND		0.59	1.8	J	0.26	-		-	ND		0.079	ND		0.022	ND		0.12	ND		0.26
Bis(2-chloroethoxy)methane	111-91-1	7.6	29	9600	ND		0.018	ND		0.018	ND		0.02	ND		0.45	ND		0.2	-		-	ND		0.061	ND		0.017	ND		0.096	ND		0.2
Bis(2-chloroethyl)ether	111-44-4	0.023	0.076	6.7	ND		0.013	ND		0.014	ND		0.014	ND		0.34	ND		0.14	-		-	ND		0.045	ND		0.013	ND		0.071	ND		0.14
Bis(2-chloroisopropyl)ether	108-60-1	8	30	220	ND		0.03	ND		0.032	ND		0.033	ND		0.78	ND		0.34	-		-	ND		0.1	ND		0.029	ND		0.16	ND		0.34
Bis(2-ethylhexyl)phthalate	117-81-7	130	0.6	6500	ND		0.061	ND		0.064	ND		0.068	ND		1.6	ND		0.68	-		-	ND		0.21	ND		0.06	ND		0.33	ND		0.68
Butyl benzyl phthalate	85-68-7	10000	140	10000	ND		0.045	ND		0.046	ND		0.049	ND		1.1	ND		0.5	-		-	ND		0.15	ND		0.043	ND		0.24	ND		0.49
Caprolactam	105-60-2	NA	NA	NA	ND		0.054	ND		0.056	ND		0.06	ND		1.4	ND		0.6	-		-	ND		0.18	ND		0.052	ND		0.29	ND		0.6
Carbazole	86-74-8	89	14	4600	0.089	J	0.017	ND		0.018	0.1	J	0.019	0.79	J	0.44	34		0.19	-		-	ND		0.059	0.028	J	0.017	0.11	J	0.093	0.48	J	0.19
Chrysene	218-01-9	230	0.19	760	0.59		0.018	ND		0.019	0.74		0.02	7.7		0.47	87	E	0.2	90		1	0.37		0.063	0.32		0.018	2.1		0.099	19		0.2
Di-n-butylphthalate	84-74-2	4000	970	10000	ND		0.034	ND		0.035	ND		0.037	ND		0.86	ND		0.37	-		-	0.13	J	0.11	ND		0.033	ND		0.18	ND		0.37
Di-n-octylphthalate	117-84-0	10000	97	10000	ND		0.06	ND		0.063	ND		0.066	ND		1.5	ND		0.67	-		-	ND		0.21	ND		0.059	ND		0.32	ND		0.67
Dibenzo(a,h)anthracene	53-70-3	270	0.06	22	0.089	J	0.02	ND		0.021	0.14		0.023	1.1	J	0.52	15		0.23	-		-	0.14	J	0.07	0.047	J	0.02	0.41	J	0.11	3.6		0.23
Dibenzofuran	132-64-9	250	9.7	3200	0.072	J	0.017	ND		0.017	0.065	J	0.018	0.71	J	0.43	22		0.19	-		-	0.69		0.057	0.016	J	0.016	0.1	J	0.09	0.4	J	0.18
Diethyl phthalate	84-66-2	2400	7800	10000	ND		0.016	ND		0.017	ND		0.018	ND		0.42	ND		0.18	-		-	ND		0.056	ND		0.016	ND		0.088	ND		0.18
Dimethyl phthalate	131-11-3	NA	NA	NA	ND		0.037	ND		0.039	ND		0.041	ND		0.95	ND		0.41	-		-	ND		0.13	ND		0.036	ND		0.2	ND		0.41
Fluoranthene	206-44-0	3200	26	130000	0.99		0.02	ND		0.021	1.2		0.022	17		0.52	130	E	0.23	180		1.1	0.38		0.07	0.51		0.02	2.5		0.11	32		0.22
Fluorene	86-73-7	3800	190	130000	0.095	J	0.017	ND		0.018	0.12	J	0.019	1.2	J	0.44	35		0.19	-		-	0.91		0.059	0.032	J	0.017	0.1	J	0.093	0.76	J	0.19
Hexachlorobenzene	118-74-1	0.96	0.1	57	ND		0.02	ND		0.021	ND		0.022	ND		0.51	ND		0.22	-		-	ND		0.068	ND		0.019	ND		0.11	ND		0.22
Hexachlorobutadiene	87-68-3	42	3.5	1200	ND		0.026	ND		0.027	ND		0.029	ND		0.66	ND		0.29	-		-	ND		0.089	ND		0.025	ND		0.14	ND		0.29
Hexachlorocyclopentadiene	77-47-4	91	5	10000	ND		0.16	ND		0.17	ND		0.18	ND		4.1	ND		1.8	-		-	ND		0.55	ND		0.16	ND		0.86	ND		1.8
Hexachloroethane	67-72-1	0.56	0.1	230	ND		0.029	ND		0.03	ND		0.032	ND		0.73	ND		0.32	-		-	ND		0.098	ND		0.028	ND		0.15	ND		0.32
Indeno(1,2,3-cd)pyrene	193-39-5	18000	0.23	76	0.33		0.025	ND		0.026	0.55		0.027	4.3		0.63	55		0.27	-		-	0.35	J	0.084	0.16		0.024	1.6		0.13	15		0.27
Isophorone	78-59-1	1.9	10	10000	ND		0.023	ND		0.024	ND		0.025	ND		0.59	ND		0.26	-		-	ND		0.079	ND		0.022	ND		0.12	ND		0.25
n-Nitrosodi-n-propylamine	621-64-7	0.0018	0.013	1.1	ND		0.017	ND		0.018	ND		0.019	ND		0.43	ND		0.19	-		-	ND		0.058	ND		0.016	ND		0.091	ND		0.19
Naphthalene	91-20-3	25	10	66	0.18		0.022	ND		0.022	0.14		0.024	ND		0.55	8.9		0.24	-		-	1.4		0.074	0.023	J	0.021	0.41		0.12	2.2		0.24
NDPA/DPA	86-30-6	15	9.6	860	ND		0.02	ND		0.021	ND		0.022	ND		0.52	ND		0.22	-		-	ND		0.069	ND		0.02	ND		0.11	ND		0.22
Nitrobenzene	98-95-3	0.27	0.63	55	ND		0.026	ND		0.027	ND		0.029	ND		0.67	ND		0.29	-		-	ND		0.09	ND		0.026	ND		0.14	ND		0.29
p-Chloro-m-cresol	59-50-7	2000	970	190000	ND		0.026	ND		0.027	ND		0.029	ND		0.68	ND		0.29	-		-	ND		0.09	ND		0.026	ND		0.14	ND		0.29
Pentachlorophenol	87-86-5	5	0.1	230	ND		0.039	ND		0.04	ND		0.043	ND		1	ND		0.43	-		-	ND		0.13	ND		0.038	ND		0.21	ND		0.43
Phenanthrene	85-01-8	10000	110	190000	0.76		0.022	ND		0.022	0.78		0.024	14		0.55	150	E	0.24	230		1.2	1.5		0.074	0.35		0.021	1.2		0.12	10		0.24
Phenol	108-95-2	33	200	16000	ND		0.027	ND		0.028	ND		0.03	ND		0.68	ND		0.3	-		-	ND		0.092	ND		0.026	ND		0.14	ND		0.3
Pyrene	129-00-0	2200	13	96000	0.83		0.018	0.018	J	0.018	1.1		0.019	14		0.45	120	E	0.2	140		0.98	0.39		0.06	0.45		0.017	2.3		0.095	26		0.2

Table 2: Surface Soil Sampling Results - 2025
49th Street Terminal Site
1700 S 49th Street, Philadelphia, PA 19143

verdantas

Sample ID		PADEP SHS			SB-10A			SB-11A			SB-12A			SB-13A			SB-14A			SB-15A			SB-16A			MW-01A			MW-02A			MW-03A		
Lab Sample ID		Non-Residential			L2550922-07			L2550922-10			L2550922-12			L2550922-15			L2550922-18			L2550922-20			L2550922-22			L2550922-04			L2551270-01			L2551270-03		
Date Sampled					8/13/2025			8/13/2025			8/13/2025			8/13/2025			8/13/2025			8/13/2025			8/13/2025			8/13/2025			8/14/2025			8/14/2025		
Sample Depth					0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet		
	CAS Number	Soil to Groundwater Generic TDS≤2500	Soil to Groundwater 100X TDS≤2501	Surface Soil Direct Contact 0 2 feet	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
Dichlorodifluoromethane	75-71-8	100	100	8000	-		-	ND		0.34	-		-	-		-	-		-	-		-	-		-	ND		0.067	-		-	-		-
Ethylbenzene	100-41-4	46	70	880	-		-	1.2		0.052	-		-	-		-	-		-	-		-	-		-	0.54		0.01	-		-	-		-
Isopropylbenzene	98-82-8	2500	350	10000	-		-	0.24	J	0.04	-		-	-		-	-		-	-		-	-		-	0.032	J	0.008	-		-	-		-
Methyl Acetate	79-20-9	1800	9700	10000	-		-	ND		0.35	-		-	-		-	-		-	-		-	-		-	0.3		0.07	-		-	-		-
Methyl cyclohexane	108-87-2	NA	NA	NA	-		-	2.9		0.22	-		-	-		-	-		-	-		-	-		-	0.37		0.044	-		-	-		-
Methyl tert butyl ether	1634-04-4	0.28	2	8500	-		-	ND		0.074	-		-	-		-	-		-	-		-	-		-	ND		0.015	-		-	-		-
Methylene chloride	75-09-2	0.076	0.5	10000	-		-	ND		0.84	-		-	-		-	-		-	-		-	-		-	ND		0.17	-		-	-		-
o-Xylene	95-47-6	990	1000	8000	-		-	1.4		0.11	-		-	-		-	-		-	-		-	-		-	0.37		0.021	-		-	-		-
p/m-Xylene	179601-23-1	990	1000	8000	-		-	7.6		0.2	-		-	-		-	-		-	-		-	-		-	1.7		0.041	-		-	-		-
Styrene	100-42-5	24	10	10000	-		-	ND		0.072	-		-	-		-	-		-	-		-	-		-	ND		0.014	-		-	-		-
Tetrachloroethene	127-18-4	0.43	0.5	3200	-		-	ND		0.072	-		-	-		-	-		-	-		-	-		-	ND		0.014	-		-	-		-
Toluene	108-88-3	44	100	10000	-		-	2.5		0.2	-		-	-		-	-		-	-		-	-		-	1.4		0.04	-		-	-		-
trans-1,2-Dichloroethene	156-60-5	2.3	10	10000	-		-	ND		0.05	-		-	-		-	-		-	-		-	-		-	ND		0.01	-		-	-		-
trans-1,3-Dichloropropene	10061-02-6	0.61	3.4	560	-		-	ND		0.1	-		-	-		-	-		-	-		-	-		-	ND		0.02	-		-	-		-
Trichloroethene	79-01-6	0.17	0.5	160	-		-	ND		0.05	-		-	-		-	-		-	-		-	-		-	ND		0.01	-		-	-		-
Trichlorofluoromethane	75-69-4	87	200	10000	-		-	ND		0.26	-		-	-		-	-		-	-		-	-		-	ND		0.051	-		-	-		-
Vinyl chloride	75-01-4	0.027	0.2	61	-		-	ND		0.12	-		-	-		-	-		-	-		-	-		-	ND		0.025	-		-	-		-
Xylenes, Total	1330-20-7	990	1000	7900	-		-	9		0.11	-		-	-		-	-		-	-		-	-		-	2.1		0.021	-		-	-		-
Target Compound List Semi-Volatile Organic Compounds (mg/kg) - EPA 8270D																																		
1,2,4,5-Tetrachlorobenzene	95-94-3	13	2.9	960	ND		0.019	ND		0.02	ND		0.022	ND		0.02	ND		0.018	ND		0.018	ND		0.018	ND		0.018	ND		0.019	ND		0.018
1,4-Dioxane	123-91-1	0.35	2.7	440	ND		0.0083	ND		0.0086	ND		0.0096	ND		0.0085	ND		0.0079	ND		0.0078	ND		0.0078	ND		0.0077	ND		0.0082	ND		0.0076
2,3,4,6-Tetrachlorophenol	58-90-2	4500	290	96000	0.056	J	0.037	ND		0.038	ND		0.043	ND		0.038	ND		0.035	ND		0.035	ND		0.035	ND		0.034	ND		0.036	ND		0.034
2,4,5-Trichlorophenol	95-95-4	5900	970	190000	ND		0.035	ND		0.036	ND		0.04	ND		0.036	ND		0.033	ND		0.033	ND		0.033	ND		0.032	ND		0.034	ND		0.032
2,4,6-Trichlorophenol	88-06-2	28	9.7	3200	ND		0.035	ND		0.036	ND		0.04	ND		0.036	ND		0.033	ND		0.032	ND		0.032	ND		0.032	ND		0.034	ND		0.032
2,4-Dichlorophenol	120-83-2	1	2	9600	ND		0.029	ND		0.03	ND		0.034	ND		0.03	ND		0.028	ND		0.028	ND		0.028	ND		0.027	ND		0.029	ND		0.027
2,4-Dimethylphenol	105-67-9	83	190	10000	ND		0.06	ND		0.062	ND		0.07	ND		0.062	ND		0.057	ND		0.057	ND		0.057	ND		0.056	ND		0.059	ND		0.055
2,4-Dinitrophenol	51-28-5	2.1	19	6400	ND		0.085	ND		0.088	ND		0.098	ND		0.087	ND		0.081	ND		0.08	ND		0.08	ND		0.079	ND		0.084	ND		0.078
2,4-Dinitrotoluene	121-14-2	0.21	0.88	290	ND		0.036	ND		0.038	ND		0.042	ND		0.037	ND		0.035	ND		0.034	ND		0.034	ND		0.034	ND		0.036	ND		0.034
2,6-Dinitrotoluene	606-20-2	0.053	0.18	61	ND		0.031	ND		0.032	ND		0.036	ND		0.032	ND		0.03	ND		0.029	ND		0.029	ND		0.029	ND		0.031	ND		0.029
2-Chloronaphthalene	91-58-7	17000	780	190000	ND		0.018	ND		0.019	ND		0.021	ND		0.018	ND		0.017	ND		0.017	ND		0.017	ND		0.017	ND		0.018	ND		0.017
2-Chlorophenol	95-57-8	4.4	4	10000	ND		0.022	ND		0.022	ND		0.025	ND		0.022	ND		0.02	ND		0.02	ND		0.02	ND		0.02	ND		0.021	ND		0.02
2-Methylnaphthalene	91-57-6	100	2.6	240	1.1		0.022	4.9		0.023	1.8		0.026	1.6		0.023	0.24		0.021	2.6		0.021	0.2	J	0.021	2.5		0.02	1.4		0.022	0.94		0.02
2-Methylphenol	95-48-7	81	490	160000	ND		0.028	ND		0.029	ND		0.033	ND		0.029	ND		0.027	ND		0.026	ND		0.027	0.048	J	0.026	ND		0.028	ND		0.026
2-Nitroaniline	88-74-4	0.0079	0.044	3.9	ND		0.035	ND		0.036	ND		0.041	ND		0.036	ND		0.033	ND		0.033	ND		0.033	ND		0.033	ND		0.035	ND		0.032
2-Nitrophenol	88-75-5	16	78	26000	ND		0.069	ND		0.071	ND		0.079	ND		0.07	ND		0.065	ND		0.064	ND		0.064	ND		0.064	ND		0.068	ND		0.063
3,3'-Dichlorobenzidine	91-94-1	33	0.6	200	ND		0.048	ND		0.05	ND		0.056	ND		0.05	ND		0.046	ND		0.046	ND		0.046	ND		0.045	ND		0.048	ND		0.045
3-Methylphenol/4-Methylphenol	108-39-4/106-44-5	11	49	10000	0.061	J	0.029	ND		0.03	0.038	J	0.033	ND		0.029	ND		0.027	0.032	J	0.027	ND		0.027	0.047	J	0.026	ND		0.028	ND		0.026
3-Nitroaniline	99-09-2	NA	NA	NA	ND		0.034	ND		0.036	ND		0.04	ND		0.035	ND		0.033	ND		0.032	ND		0.032	ND		0.032	ND		0.034	ND		0.032
4,6-Dinitro-o-cresol	534-52-1	NA	NA	NA	ND		0.088	ND		0.091	ND		0.1	ND		0.09	ND		0.083	ND		0.082	ND		0.082	ND		0.081	ND		0.086	ND		0.08
4-Bromophenyl phenyl ether	101-55-3	NA	NA	NA	ND		0.028	ND		0.029	ND		0.032	ND		0.029	ND		0.026	ND		0.026	ND		0.026	ND		0.026	ND		0.027	ND		0.026
4-Chloroaniline	106-47-8	1.8	1.4	460	ND		0.033	ND		0.034	ND		0.038	ND		0.034	ND		0.032	ND		0.031	ND		0.031	ND		0.031	ND		0.033	ND		0.03
4-Chlorophenyl phenyl ether	7005-72-3	NA	NA	NA	ND		0.02	ND		0.02	ND		0.023	ND		0.02	ND		0.018	ND		0.018	ND		0.018	ND		0.018	ND		0.019	ND		0.018
4-Nitroaniline	100-01-6	2.1	14	4600	ND		0.076	ND		0.078	ND		0.088	ND		0.078	ND		0.072	ND		0.071	ND		0.071	ND		0.07	ND		0.074	ND		0.069
4-Nitrophenol	100-02-7	4.1	6	26000	ND		0.074	ND		0.077	ND		0.086	ND		0.076	ND		0.071	ND		0.07	ND		0.07	ND		0.069	ND		0.073	ND		0.068
Acenaphthene	83-32-9	4700	380	190000	0.035	J	0.019	0.024	J	0.02	0.022	J	0.022	0.028	J	0.019	ND		0.018	0.044	J	0.018	0.039	J	0.018	0.02	J	0.018	0.02	J	0.019	ND		0.017
Acenaphthylene	208-96-8	6600	580	190000	0.14	J	0.028	0.063	J	0.029	0.1	J	0.033	0.086	J	0.029	ND		0.027	0.11	J	0.026	0.068	J	0.026	0.041	J	0.026	0.092	J	0.028	ND		0.026
Acetophenone	98-86-2	520	970	10000	ND		0.023	ND		0.023	ND		0.026	ND		0.023	0.069	J	0.021	ND		0.021	ND		0.021	ND		0.021	ND		0.022	ND		0.021
Anthracene	120-12-7	350	6.6	190000	0.19		0.036	0.081	J	0.037	0.11	J	0.041	0.13		0.036	0.046	J	0.034	0.23		0.033	0.073	J	0.033	0.041	J	0.033	0.12		0.035	ND		0.033
Atrazine	1912-24-9	0.13	0.3	400	ND		0.064	ND		0.066	ND		0.074	ND		0.066	ND		0.061	ND		0.06	ND		0.06	ND		0.059	ND		0.063	ND		0.059
Benzaldehyde	100-52-7	NA	NA	NA	ND		0.049	ND		0.051	ND		0.057	ND		0.051	ND		0.047	ND		0.046	ND		0.046	ND		0.046	ND		0.049	ND		0.045
Benzo(a)anthracene	56-55-3	340	0.39	130	0.57		0.02	0.19		0.021	0.25		0.024	0.43		0.021	0.47		0.02	1.1		0.019	0.42		0.019	0.031	J	0.019	0.34		0.02	0.019	J	0.019
Benzo(a)pyrene	50-32-8	46	0.02	91	0.64		0.044	0.22		0.046	0.47		0.052	0.51		0.046	0.54		0.042	1.3		0.042	0.58		0.042	0.068	J	0.041	0.49		0.044	ND		0.041
Benzo(b)fluoranthene	205-99-2	170	0.12	76	0.92		0.031	0.3		0.032	0.57		0.036	0.72		0.032	0.74		0.029	1.6		0.029	0.7		0.029	0.07	J	0.028	0.65		0.03	ND		0.028
Benzo(ghi)perylene	191-24-2	180	0.026	190000	0.54		0.021	0.22		0.022	0.53		0.025	0.48		0.022	0.36		0.02	0.97		0.02	0.37		0.02	0.065	J	0.02	0.54		0.021	ND		0.02
Benzo(k)fluoranthene	207-08-9	610	0.055	76	0.19		0.029	0.089	J	0.03	0.19		0.034	0.19		0.03	0.22		0.028	0.48		0.027	0.21		0.027	ND		0.027	0.17		0.029	ND		0.027
Biphenyl	92-52-4	1.5	0.35	34	0.1	J	0.024	0.32	J	0.025	0.13	J	0.027	0.19	J	0.024	0.022	J	0.022	0.17	J	0.022	ND		0.022	0.12	J	0.022	0.18	J	0.023	0.044	J	0.022
Bis(2-chloroethoxy)methane	111-91-1	7.6	29	9600	ND		0.018	ND		0.019	ND		0.021	ND		0.019	ND		0.017	ND		0.017	ND		0.017	ND		0.017	ND		0.018	ND		0.017
Bis(2-chloroethyl)ether	111-44-4	0.023	0.076	6.7	ND		0.014	ND		0.014	ND		0.016	ND		0.014	ND		0.013	ND		0.013	ND		0.013	ND		0.012	ND		0.013	ND		0.012
Bis(2-chloroisopropyl)ether	108-60-1	8	30	220	ND		0.031	ND		0.032	ND		0.036	ND		0.032	ND		0.03	ND		0.029	ND		0.029	ND		0.029	ND		0.031	ND		0.029
Bis(2-ethylhexyl)phthalate	117-81-7	130	0.6	6500	0.1	J	0.063	1		0.066	ND		0.073	ND		0.065	ND		0.06	ND		0.059	ND		0.059	ND		0.059	ND		0.062	ND		0.058
Butyl benzyl phthalate	85-68-7	10000	140	10000	ND		0.046	0.076	J	0.048	ND		0.053	ND		0.047	ND		0.044	ND		0.043	ND		0.043	ND		0.043	ND		0.045	ND		0.042
Caprolactam	105-60-2	NA	NA	NA	ND		0.056	ND		0.058	ND		0.064	ND		0.057	ND		0.053	ND		0.052	ND		0.052	ND		0.052	ND		0.055	ND		0.051
Carbazole	86-74-8	89	14	4600	0.054	J	0.018	0.032	J	0.018	0.061	J	0.02	0.057	J	0.018	ND		0.017	0.071	J	0.017	0.021	J	0.017	0.047	J	0.016	0.038	J	0.018	ND		0.016
Chrysene	218-01-9	230	0.19	760	0.73		0.019	0.24		0.02	0.29		0.022	0.47		0.019	0.47		0.018	1.1		0.018	0.42		0.018	0.042	J	0.018	0.37		0.019	ND		0.017
Di-n-butylphthalate	84-74-2	4000	970	10000	ND		0.035	ND		0.036	ND		0.04	ND		0.036	ND		0.033	ND		0.032	ND		0.032	ND		0.032	ND		0.034	ND		0.032
Di-n-octylphthalate	117-84-0	10000	97	10000	ND		0.062	ND		0.064	ND		0.072	ND		0.064	ND		0.059	ND		0.058	ND		0.058	ND		0.058	ND		0.061	ND		0.057
Dibenzo(a,h)anthracene	53-70-3	270	0.06	22	0.13		0.021	0.052	J	0.022	0.11	J	0.024	0.11		0.022	0.083	J	0.02	0.23		0.02	0.11		0.02	ND		0.02	0.098	J	0.021	ND		0.019
Dibenzofuran	132-64-9	250	9.7	3200	0.11	J	0.017	0.23		0.018	0.11	J	0.02	0.2		0.018	0.019	J	0.016	0.18		0.016	0.053	J	0.016	0.15	J	0.016	0.1	J	0.017	0.035	J	0.016
Diethyl phthalate	84-66-2	2400	7800	10000	ND		0.017	ND		0.018	ND		0.02	ND		0.017	ND		0.016	ND		0.016	ND		0.016	ND		0.016	ND		0.017	ND		0.016
Dimethyl phthalate	131-11-3	NA	NA	NA	ND		0.038	ND		0.04	ND		0.044	ND		0.039	ND		0.036	ND		0.036	ND		0.036	ND		0.036	ND		0.038	ND		0.035
Fluoranthene	206-44-0	3200	26	130000	0.76		0.021	0.26		0.022	0.21		0.024	0.58		0.022	0.54		0.02	1.2		0.02	0.4		0.02	0.025	J	0.019	0.37		0.021	0.033	J	0.019
Fluorene	86-73-7	3800	190	130000	0.069	J	0.018	0.055	J	0.018	0.054	J	0.02	0.052	J	0.018	ND		0.017	0.076	J	0.017	0.071	J	0.017	0.081	J	0.016	0.036	J	0.018	ND		0.016
Hexachlorobenzene	118-74-1	0.96	0.1	57	ND		0.02	ND		0.021	ND		0.024	ND		0.021	ND		0.019	ND		0.019	ND		0.019	ND		0.019	ND		0.02	ND		0.019
Hexachlorobutadiene	87-68-3	42	3.5	1200	ND		0.027	ND		0.028	ND		0.031	ND		0.027	ND		0.025	ND		0.025	ND		0.025	ND		0.025	ND		0.026	ND		0.024
Hexachlorocyclopentadiene	77-47-4	91	5	10000	ND		0.16	ND		0.17	ND		0.19	ND		0.17	ND		0.16	ND		0.16	ND		0.16	ND		0.15	ND		0.16	ND		0.15
Hexachloroethane	67-72-1	0.56	0.1	230	ND		0.03	ND		0.031	ND		0.034	ND		0.03	ND		0.028	ND		0.028	ND		0.028	ND		0.027	ND		0.029	ND		0.027
Indeno(1,2,3-cd)pyrene	193-39-5	18000	0.23	76	0.51		0.025	0.18		0.026	0.47		0.029	0.46		0.026	0.38		0.024	0.9		0.024	0.39		0.024	0.061	J	0.024	0.47		0.025	ND		0.023
Isophorone	78-59-1	1.9	10	10000	ND		0.024	ND		0.024	ND		0.027	ND		0.024	ND		0.022	ND		0.022	ND		0.022	ND		0.022	ND		0.023	ND		0.022
n-Nitrosodi-n-propylamine	621-64-7	0.0018	0.013	1.1	ND		0.017	ND		0.018	ND		0.02	ND		0.018	ND		0.016	ND		0.016	ND		0.016	ND		0.016	ND		0.017	ND		0.016
Naphthalene	91-20-3	25	10	66	0.5		0.022	1.4		0.023	0.89		0.026	0.72		0.023	0.16		0.021	0.73		0.021	0.14		0.021	1		0.021	0.5		0.022	0.42		0.02
NDPA/DPA	86-30-6	15	9.6	860	ND		0.021	ND		0.022	ND		0.024	ND		0.021	ND		0.02	ND		0.02	ND		0.02	ND		0.019	ND		0.02	ND		0.019
Nitrobenzene	98-95-3	0.27	0.63	55	ND		0.027	ND		0.028	ND		0.031	ND		0.028	ND		0.026	ND		0.025	ND		0.025	ND		0.025	ND		0.027	ND		0.025
p-Chloro-m-cresol	59-50-7	2000	970	190000	ND		0.027	ND		0.028	ND		0.031	ND		0.028	ND		0.026	ND		0.026	ND		0.026	ND		0.025	ND		0.027	ND		0.025
Pentachlorophenol	87-86-5	5	0.1	230	ND		0.04	ND		0.042	ND		0.046	ND		0.041	ND		0.038	ND		0.038	ND		0.038	ND		0.037	ND		0.04	ND		0.037
Phenanthrene	85-01-8	10000	110	190000	0.52		0.022	0.31		0.023	0.22		0.026	0.58		0.023	0.14		0.021	0.78		0.021	0.2		0.021	0.18		0.021	0.31		0.022	ND		0.02
Phenol	108-95-2	33	200	16000	ND		0.028	ND		0.029	ND		0.032	ND		0.028	ND		0.026	ND		0.026	ND		0.026	ND		0.026	ND		0.027	ND		0.025
Pyrene	129-00-0	2200	13	96000	0.84		0.018	0.26		0.019	0.22		0.021	0.49		0.019	0.51		0.017	1.1		0.017	0.38		0.017	0.048	J	0.017	0.35		0.018	0.028	J	0.017

Table 2: Surface Soil Sampling Results - 2025
49th Street Terminal Site
1700 S 49th Street, Philadelphia, PA 19143

verdantas

Sample ID		PADEP SHS			SB-01A			SB-02A			SB-03A			SB-04A			SB-05A			SB-05A			SB-06A			SB-07A			SB-08A			SB-09A		
Lab Sample ID		Non-Residential			L2550677-01			L2550677-03			L2550677-05			L2550677-07			L2550677-08			L2550677-08 R1			L2550677-11			L2550922-01			L2550677-13			L2550677-15		
Date Sampled					8/12/2025			8/12/2025			8/12/2025			8/12/2025			8/12/2025			8/12/2025			8/12/2025			8/13/2025			8/12/2025			8/12/2025		
Sample Depth		Soil to Groundwater Generic TDS≤2500	Soil to Groundwater 100X TDS≤2501	Surface Soil Direct Contact 0 2 feet	0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet		
	CAS Number				Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
Chlorinated Herbicides (mg/kg)																																		
2,4,5-T	93-76-5	**7**	**1.5**	**32000**	ND		0.00547	ND		0.00579	ND		0.00611	ND		0.00569	ND		0.00606	-		-	ND		0.00662	ND		0.00523	ND		0.00595	ND		0.00605
2,4,5-TP (Silvex)	93-72-1	**5**	**22**	**26000**	ND		0.00469	ND		0.00497	ND		0.00524	ND		0.00488	ND		0.0052	-		-	ND		0.00568	ND		0.00449	ND		0.00511	ND		0.00519
2,4-D	94-75-7	**7**	**1.8**	**32000**	ND		0.0111	ND		0.0118	ND		0.0124	ND		0.0116	ND		0.0123	-		-	ND		0.0134	ND		0.0106	ND		0.0121	ND		0.0123
Pesticides (mg/kg) - EPA 8081																																		
4,4'-DDD	72-54-8	**120**	**1.1**	**380**	ND		0.00059	ND		0.00061	ND		0.00066	ND		0.0006	ND		0.00066	-		-	ND		0.0007	ND		0.00058	ND		0.00062	ND		0.00064
4,4'-DDE	72-55-9	**170**	**0.8**	**270**	ND		0.00038	ND		0.0004	ND		0.00043	ND		0.00039	ND		0.00043	-		-	ND		0.00045	ND		0.00037	ND		0.0004	ND		0.00041
4,4'-DDT	50-29-3	**330**	**0.55**	**270**	ND		0.00135	ND		0.00139	ND		0.00149	ND		0.00137	ND		0.0015	-		-	ND		0.0016	ND		0.00131	ND		0.00141	ND		0.00145
Aldrin	309-00-2	**1.9**	**0.016**	**5.4**	ND		0.00059	ND		0.0006	ND		0.00065	ND		0.00059	ND		0.00065	-		-	ND		0.00069	ND		0.00057	ND		0.00061	ND		0.00063
Alpha-BHC	319-84-6	**0.2**	**0.043**	**14**	ND		0.00016	ND		0.0002	ND		0.00017	ND		0.00016	ND		0.00017	-		-	ND		0.00018	ND		0.00015	ND		0.00016	ND		0.00017
Beta-BHC	319-85-7	**0.88**	**0.15**	**51**	ND		0.00063	ND		0.00065	ND		0.0007	ND		0.00064	ND		0.0007	-		-	ND		0.00075	ND		0.00062	ND		0.00066	ND		0.00068
Chlordane	57-74-9	**49**	**0.2**	**260**	ND		0.00556	ND		0.00573	ND		0.00616	ND		0.00563	ND		0.00619	-		-	ND		0.00658	ND		0.00541	ND		0.00581	ND		0.00598
cis-Chlordane	5103-71-9	**NA**	**NA**	**NA**	ND		0.00058	ND		0.0006	ND		0.00064	ND		0.00059	ND		0.00065	-		-	ND		0.00069	ND		0.00056	ND		0.00061	ND		0.00062
Delta-BHC	319-86-8	**NA**	**NA**	**NA**	ND		0.00033	ND		0.00033	ND		0.00036	ND		0.00033	ND		0.00037	-		-	ND		0.00039	ND		0.00032	ND		0.00034	ND		0.00035
Dieldrin	60-57-1	**0.47**	**0.017**	**5.7**	ND		0.00052	ND		0.00054	ND		0.00058	ND		0.00053	ND		0.00058	-		-	ND		0.00062	ND		0.00051	ND		0.00054	ND		0.00056
Endosulfan I	959-98-8	**260**	**50**	**19000**	ND		0.00039	ND		0.0004	ND		0.00043	ND		0.0004	ND		0.00044	-		-	ND		0.00046	ND		0.00038	ND		0.00041	ND		0.00042
Endosulfan II	33213-65-9	**260**	**45**	**19000**	ND		0.00056	ND		0.00057	ND		0.00062	ND		0.00056	ND		0.00062	-		-	ND		0.00066	ND		0.00054	ND		0.00058	ND		0.0006
Endosulfan sulfate	1031-07-8	**70**	**12**	**19000**	ND		0.00031	ND		0.00032	ND		0.00035	ND		0.00032	ND		0.00035	-		-	ND		0.00037	ND		0.00031	ND		0.00033	ND		0.00034
Endrin	72-20-8	**5.5**	**0.2**	**960**	ND		0.00028	ND		0.00029	ND		0.00031	ND		0.00029	ND		0.00031	-		-	ND		0.00033	ND		0.00027	ND		0.00029	ND		0.0003
Endrin aldehyde	7421-93-4	**NA**	**NA**	**NA**	ND		0.00073	ND		0.00075	ND		0.00081	ND		0.00074	ND		0.00081	-		-	ND		0.00086	ND		0.00071	ND		0.00076	ND		0.00079
Endrin ketone	53494-70-5	**NA**	**NA**	**NA**	ND		0.00043	ND		0.00044	ND		0.00047	ND		0.00043	ND		0.00048	-		-	ND		0.00051	ND		0.00042	ND		0.00045	ND		0.00046
Heptachlor	76-44-8	**0.68**	**0.04**	**20**	ND		0.00037	ND		0.00038	ND		0.00041	ND		0.00038	ND		0.00041	-		-	ND		0.00044	ND		0.00036	ND		0.00039	ND		0.0004
Heptachlor epoxide	1024-57-3	**1.1**	**0.02**	**10**	ND		0.00094	ND		0.00097	ND		0.00104	ND		0.00095	ND		0.00105	-		-	ND		0.00112	ND		0.00091	ND		0.00098	ND		0.00102
Lindane	58-89-9	**0.072**	**0.02**	**83**	ND		0.00031	ND		0.00032	ND		0.00034	ND		0.00031	ND		0.00034	-		-	ND		0.00037	ND		0.0003	ND		0.00032	ND		0.00033
Methoxychlor	72-43-5	**630**	**4**	**16000**	ND		0.00097	ND		0.00101	ND		0.00108	ND		0.00099	ND		0.00109	-		-	ND		0.00116	ND		0.00095	ND		0.00102	ND		0.00105
Toxaphene	8001-35-2	**1.2**	**0.3**	**83**	ND		0.00881	ND		0.00908	ND		0.00976	ND		0.00892	ND		0.00982	-		-	ND		0.0104	ND		0.00858	ND		0.0092	ND		0.00949
trans-Chlordane	5103-74-2	**NA**	**NA**	**NA**	ND		0.00055	ND		0.00057	ND		0.00061	ND		0.00056	ND		0.00061	-		-	ND		0.00065	ND		0.00053	ND		0.00057	ND		0.00059
Polychlorinated Biphenyls (mg/kg) - EPA 8082A																																		
Aroclor 1016	12674-11-2	**190**	**0.68**	**220**	ND		0.00462	ND		0.0049	ND		0.00499	ND		0.00455	ND		0.00501	-		-	ND		0.00575	ND		0.00431	ND		0.00502	ND		0.00501
Aroclor 1221	11104-28-2	**0.68**	**0.14**	**23**	ND		0.00522	ND		0.00553	ND		0.00563	ND		0.00513	ND		0.00565	-		-	ND		0.00649	ND		0.00487	ND		0.00566	ND		0.00566
Aroclor 1232	11141-16-5	**0.54**	**0.14**	**46**	ND		0.011	ND		0.0117	ND		0.0119	ND		0.0108	ND		0.012	-		-	ND		0.0137	ND		0.0103	ND		0.012	ND		0.012
Aroclor 1242	53469-21-9	**17**	**0.14**	**46**	ND		0.00702	ND		0.00744	ND		0.00757	ND		0.0069	ND		0.0076	-		-	ND		0.00874	ND		0.00655	ND		0.00761	ND		0.00761
Aroclor 1248	12672-29-6	**67**	**0.14**	**46**	ND		0.00781	ND		0.00827	ND		0.00842	ND		0.00768	ND		0.00846	-		-	ND		0.00972	ND		0.00729	ND		0.00847	ND		0.00847
Aroclor 1254	11097-69-1	**380**	**0.19**	**64**	ND		0.0057	ND		0.00603	ND		0.00614	ND		0.0056	ND		0.00617	-		-	ND		0.00709	ND		0.00531	ND		0.00618	ND		0.00618
Aroclor 1260	11096-82-5	**630**	**0.14**	**46**	0.0131	J	0.00962	ND		0.0102	ND		0.0104	0.0188	J	0.00946	ND		0.0104	-		-	ND		0.012	ND		0.00898	ND		0.0104	ND		0.0104
Aroclor 1262	37324-23-5	**NA**	**NA**	**NA**	ND		0.00661	ND		0.007	ND		0.00713	ND		0.0065	ND		0.00716	-		-	ND		0.00823	ND		0.00617	ND		0.00717	ND		0.00717
Aroclor 1268	11100-14-4	**NA**	**NA**	**NA**	0.00686	J	0.0054	ND		0.00571	ND		0.00582	ND		0.00531	ND		0.00584	-		-	ND		0.00671	ND		0.00503	ND		0.00585	ND		0.00585
PCBs, Total	1336-36-3	**NA**	**NA**	**NA**	0.02	J	0.00462	ND		0.0049	ND		0.00499	0.0188	J	0.00455	ND		0.00501	-		-	ND		0.00575	ND		0.00431	ND		0.00502	ND		0.00501
Target Analyte List Metals (mg/kg) - EPA 6010B/7471B																																		
Aluminum, Total	7429-90-5	**190000**	**NA**	**190000**	5690		2.74	2540		2.81	4640		3.02	5890		2.8	3430		3	-		-	4980		3.22	2900		2.63	6280		2.94	3490		2.96
Antimony, Total	7440-36-0	**27**	**0.6**	**1300**	ND		3.24	ND		3.33	ND		3.57	ND		3.31	ND		3.55	-	-	-	ND		3.81	ND		3.12	ND		3.49	3.64	J	3.51
Arsenic, Total	7440-38-2	**29**	**1**	**61**	3.08		0.364	9.02		0.374	7.35		0.401	9.83		0.372	9.3		0.399	-		-	6.01		0.428	11		0.35	8.84		0.391	12.3		0.394
Barium, Total	7440-39-3	**8200**	**200**	**190000**	132		0.089	193		0.092	108		0.098	218		0.091	333		0.098	-		-	113		0.105	102		0.086	133		0.096	132		0.097
Beryllium, Total	7440-41-7	**320**	**0.4**	**6400**	0.91		0.046	0.243	J	0.048	0.341	J	0.051	0.519		0.047	0.327	J	0.051	-	-	-	0.276	J	0.055	0.58		0.045	0.992		0.05	0.322	J	0.05
Cadmium, Total	7440-43-9	**38**	**0.5**	**1600**	0.19	J	0.046	0.785	J	0.048	0.263	J	0.051	0.886		0.047	1.32		0.051	-		-	1.78		0.055	0.23	J	0.045	0.964		0.05	1.76		0.05
Calcium, Total	7440-70-2	**NA**	**NA**	**NA**	16200		4.78	4050		4.91	3310		5.26	5730		4.88	21200		5.23	-		-	9120		5.62	17600		4.59	7790		5.14	7260		5.16
Chromium, Total	7440-47-3	**NA**	**NA**	**NA**	7.7		0.714	22.5		0.734	17.2		0.787	21.7		0.73	24.5		0.782	-		-	25.4		0.84	10.1		0.686	24.6		0.768	23.5		0.772
Cobalt, Total	7440-48-4	**130**	**3**	**960**	2.84		0.209	3.83		0.215	7.73		0.23	17.4		0.213	5.3		0.229	-		-	5.23		0.246	4.99		0.201	6.08		0.225	4.06		0.226
Copper, Total	7440-50-8	**43000**	**100**	**100000**	17.1		0.191	45.7		0.196	216		0.211	140		0.195	415		0.209	-		-	62.8		0.225	2670		0.367	58.9		0.206	88		0.207
Iron, Total	7439-89-6	**NA**	**NA**	**190000**	8060		0.884	5820		0.909	27300		1.95	19400		0.903	40200		4.84	-		-	15600		1.04	12200		0.85	26300		0.951	33500		9.56
Lead, Total	7439-92-1	**450**	**0.5**	**1000**	54.8		0.2	551		0.206	393		0.221	1060		0.205	635		0.22	-		-	313		0.236	210		0.192	141		0.216	387		0.217
Magnesium, Total	7439-95-4	**NA**	**NA**	**NA**	3800		1.37	500		1.41	1090		1.51	2400		1.4	1340		1.5	-		-	2660		1.61	358		1.32	2000		1.48	1100		1.48
Manganese, Total	7439-96-5	**2000**	**30**	**190000**	379		0.451	50.9		0.464	144		0.498	148		0.461	342		0.495	-		-	219		0.531	61		0.434	142		0.486	113		0.488
Mercury, Total	7439-97-6	**10**	**0.2**	**510**	ND		0.045	0.368		0.055	0.457		0.057	0.967		0.046	0.818		0.061	-		-	0.554		0.055	0.071	J	0.054	0.311		0.055	4.18		0.291
Nickel, Total	7440-02-0	**650**	**10**	**64000**	6.79		0.68	8.93		0.7	16.3		0.75	15		0.695	11.7		0.746	-		-	14.8		0.8	8.97		0.654	17.6		0.732	16.1		0.736
Potassium, Total	7440-09-7	**NA**	**NA**	**NA**	578		42.7	334		43.9	717		47	695		43.6	384		46.8	-		-	964		50.2	469		41	1410		45.9	426		46.2
Selenium, Total	7782-49-2	**26**	**5**	**16000**	ND		0.277	1.45	J	0.285	0.847	J	0.305	0.745	J	0.283	1.16	J	0.304	-	-	-	ND		0.326	0.921	J	0.266	ND		0.298	0.939	J	0.3
Silver, Total	7440-22-4	**84**	**10**	**16000**	ND		0.251	ND		0.258	ND		0.277	0.266	J	0.256	0.331	J	0.275	-	-	-	ND		0.295	0.655		0.241	5.26		0.27	1.05		0.271
Sodium, Total	7440-23-5	**NA**	**NA**	**NA**	156	J	89.3	ND		91.8	99.8	J	98.4	342		91.2	102	J	97.8	-	-	-	ND		105	394		85.8	106	J	96	ND		96.6
Thallium, Total	7440-28-0	**14**	**0.2**	**32**	ND		0.76	ND		0.781	ND		0.837	ND		0.776	ND		0.832	-	-	-	ND		0.894	ND		0.73	ND		0.817	ND		0.822
Vanadium, Total	7440-62-2	**680**	**0.68**	**16000**	8.92		0.127	9.56		0.131	23.4		0.14	24		0.13	14		0.139	-		-	18.8		0.15	9.16		0.122	31.3		0.137	21.4		0.138
Zinc, Total	7440-66-6	**12000**	**200**	**190000**	59.6		0.51	221		0.525	137		0.562	458		0.521	743		0.559	-		-	238		0.6	116		0.49	342		0.549	312		0.552
General Chemistry																																		
Chromium, Hexavalent	18540-29-9	**190**	**10**	**180**	ND		0.172	0.192	J	0.18	ND		0.19	ND		0.177	ND		0.19	-		-	ND		0.208	ND		0.166	ND		0.184	0.418	J	0.191
Solids, Total	NONE	**NA**	**NA**	**NA**	93.2		NA	88.7		NA	84.3		NA	90.3		NA	84		NA	-		-	77		NA	96.1		NA	86.7		NA	83.8		NA

Notes:
MSC - MEDIUM -SPECIFIC CONCENTRATIONS FOR ORGANIC REGULATED SUBSTANCES IN SOIL
PADEP SHS - Pennsylvania Department of Environmental Protection Statewide Health Standards
Results compared to the PADEP SHS Non-residential Direct Contact, Generic, and 100X GW
Soil-to-Groundwater (TDS≤2500 mg/L) MSCs, criteria last updated November 20, 2021.
The higher of the Generic and 100X GW Soil-to-Groundwater MSC values was used as the Soil-to-Groundwater limit.
The lower of the Generic/100X GW Soil-to-Groundwater and Direct Contact MSC values was used as the soil limit.
- Indicates the selected PADEP SHS Non-Residential MSC limit.
ND - Not Detected
MDL - Method Detection Limit
Q - Qualifier
J - Result is less than the reporting limit but greater than or equal to the MDL and indicates an approximate value.
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
mg/kg - milligrams per kilogram
NA - Not Applicable
- The concentration exceeds the selected PADEP SHS Non-Residential MSC limit and RFCL.
- The analyte MDL exceeds the SHS or RFCL, however the result is reported as ND.

Table 2: Surface Soil Sampling Results - 2025
49th Street Terminal Site
1700 S 49th Street, Philadelphia, PA 19143

verdantas

Sample ID		PADEP SHS			SB-10A			SB-11A			SB-12A			SB-13A			SB-14A			SB-15A			SB-16A			MW-01A			MW-02A			MW-03A		
Lab Sample ID		Non-Residential			L2550922-07			L2550922-10			L2550922-12			L2550922-15			L2550922-18			L2550922-20			L2550922-22			L2550922-04			L2551270-01			L2551270-03		
Date Sampled					8/13/2025			8/13/2025			8/13/2025			8/13/2025			8/13/2025			8/13/2025			8/13/2025			8/13/2025			8/14/2025			8/14/2025		
Sample Depth		Soil to Groundwater Generic TDS≤2500	Soil to Groundwater 100X TDS≤2501	Surface Soil Direct Contact 0 2 feet	0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet			0.0 - 2.0 feet		
	CAS Number				Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
Chlorinated Herbicides (mg/kg)																																		
2,4,5-T	93-76-5	7	1.5	32000	ND		0.00564	ND		0.00596	ND		0.00661	ND		0.00579	ND		0.00537	ND		0.00534	ND		0.00536	ND		0.0053	ND		0.00555	ND		0.0052
2,4,5-TP (Silvex)	93-72-1	5	22	26000	ND		0.00484	ND		0.00512	ND		0.00567	ND		0.00497	ND		0.0046	ND		0.00458	ND		0.0046	ND		0.00455	ND		0.00476	ND		0.00446
2,4-D	94-75-7	7	1.8	32000	ND		0.0115	ND		0.0121	ND		0.0134	ND		0.0118	ND		0.0109	ND		0.0108	ND		0.0109	ND		0.0108	ND		0.0113	ND		0.0106
Pesticides (mg/kg) - EPA 8081																																		
4,4'-DDD	72-54-8	120	1.1	380	ND		0.00061	ND		0.00063	ND		0.00071	ND		0.00064	ND		0.00059	ND		0.00056	ND		0.00057	ND		0.00057	ND		0.0006	ND		0.00057
4,4'-DDE	72-55-9	170	0.8	270	ND		0.00039	ND		0.00041	ND		0.00046	ND		0.00041	ND		0.00038	ND		0.00036	ND		0.00037	ND		0.00037	ND		0.00039	ND		0.00037
4,4'-DDT	50-29-3	330	0.55	270	ND		0.00138	ND		0.00144	ND		0.0016	ND		0.00145	ND		0.00134	ND		0.00127	ND		0.0013	ND		0.00129	ND		0.00136	ND		0.0013
Aldrin	309-00-2	1.9	0.016	5.4	ND		0.0006	ND		0.00063	ND		0.0007	ND		0.00063	ND		0.00058	ND		0.00055	ND		0.00057	ND		0.00056	ND		0.00059	ND		0.00056
Alpha-BHC	319-84-6	0.2	0.043	14	ND		0.00016	ND		0.00017	ND		0.00019	ND		0.00017	ND		0.00015	ND		0.00015	ND		0.00015	ND		0.00015	ND		0.00016	ND		0.00015
Beta-BHC	319-85-7	0.88	0.15	51	ND		0.00064	ND		0.00067	ND		0.00075	ND		0.00068	ND		0.00063	ND		0.00059	ND		0.00061	ND		0.0006	ND		0.00064	ND		0.00061
Chlordane	57-74-9	49	0.2	260	ND		0.00566	ND		0.00593	ND		0.00661	ND		0.00597	ND		0.00552	ND		0.00524	ND		0.00538	ND		0.00532	ND		0.00559	ND		0.00534
cis-Chlordane	5103-71-9	NA	NA	NA	ND		0.00059	ND		0.00062	ND		0.00069	ND		0.00062	ND		0.00058	ND		0.00055	ND		0.00056	ND		0.00055	ND		0.00058	ND		0.00056
Delta-BHC	319-86-8	NA	NA	NA	ND		0.00033	ND		0.00035	ND		0.00039	ND		0.00035	ND		0.00032	ND		0.00031	ND		0.00032	ND		0.00031	ND		0.00033	ND		0.00031
Dieldrin	60-57-1	0.47	0.017	5.7	ND		0.00053	ND		0.00055	ND		0.00062	ND		0.00056	ND		0.00052	ND		0.00049	ND		0.0005	ND		0.0005	ND		0.00052	ND		0.0005
Endosulfan I	959-98-8	260	50	19000	ND		0.0004	ND		0.00042	ND		0.00047	ND		0.00042	ND		0.00039	ND		0.00037	ND		0.00038	ND		0.00037	ND		0.00039	ND		0.00038
Endosulfan II	33213-65-9	260	45	19000	ND		0.00057	ND		0.00059	ND		0.00066	ND		0.0006	ND		0.00055	ND		0.00052	ND		0.00054	ND		0.00053	ND		0.00056	ND		0.00053
Endosulfan sulfate	1031-07-8	70	12	19000	ND		0.00032	ND		0.00034	ND		0.00038	ND		0.00034	ND		0.00031	ND		0.0003	ND		0.0003	ND		0.0003	ND		0.00032	ND		0.0003
Endrin	72-20-8	5.5	0.2	960	ND		0.00029	ND		0.0003	ND		0.00034	ND		0.0003	ND		0.00028	ND		0.00027	ND		0.00027	ND		0.00027	ND		0.00028	ND		0.00027
Endrin aldehyde	7421-93-4	NA	NA	NA	ND		0.00074	ND		0.00078	ND		0.00087	ND		0.00078	ND		0.00072	ND		0.00069	ND		0.00071	ND		0.0007	ND		0.00073	ND		0.0007
Endrin ketone	53494-70-5	NA	NA	NA	ND		0.00044	ND		0.00046	ND		0.00051	ND		0.00046	ND		0.00042	ND		0.0004	ND		0.00041	ND		0.00041	ND		0.00043	ND		0.00041
Heptachlor	76-44-8	0.68	0.04	20	ND		0.00038	ND		0.0004	ND		0.00044	ND		0.0004	ND		0.00037	ND		0.00035	ND		0.00036	ND		0.00036	ND		0.00037	ND		0.00036
Heptachlor epoxide	1024-57-3	1.1	0.02	10	ND		0.00096	ND		0.00101	ND		0.00112	ND		0.00101	ND		0.00093	ND		0.00088	ND		0.00091	ND		0.0009	ND		0.00094	ND		0.0009
Lindane	58-89-9	0.072	0.02	83	ND		0.00031	ND		0.00033	ND		0.00037	ND		0.00033	ND		0.00031	ND		0.00029	ND		0.0003	ND		0.00029	ND		0.00031	ND		0.0003
Methoxychlor	72-43-5	630	4	16000	ND		0.00099	ND		0.00104	ND		0.00116	ND		0.00105	ND		0.00097	ND		0.00092	ND		0.00094	ND		0.00093	ND		0.00098	ND		0.00094
Toxaphene	8001-35-2	1.2	0.3	83	ND		0.00898	ND		0.0094	ND		0.0105	ND		0.00946	ND		0.00874	ND		0.0083	ND		0.00852	ND		0.00843	ND		0.00886	ND		0.00846
trans-Chlordane	5103-74-2	NA	NA	NA	ND		0.00056	ND		0.00059	ND		0.00065	ND		0.00059	ND		0.00055	ND		0.00052	ND		0.00053	ND		0.00053	ND		0.00055	ND		0.00053
Polychlorinated Biphenyls (mg/kg) - EPA 8082A																																		
Aroclor 1016	12674-11-2	190	0.68	220	ND		0.00471	ND		0.0048	ND		0.0055	ND		0.0048	ND		0.00447	ND		0.00454	ND		0.00464	ND		0.00435	ND		0.00475	ND		0.00432
Aroclor 1221	11104-28-2	0.68	0.14	23	ND		0.00532	ND		0.00542	ND		0.00621	ND		0.00542	ND		0.00505	ND		0.00513	ND		0.00524	ND		0.00491	ND		0.00536	ND		0.00487
Aroclor 1232	11141-16-5	0.54	0.14	46	ND		0.0112	ND		0.0115	ND		0.0131	ND		0.0115	ND		0.0107	ND		0.0108	ND		0.0111	ND		0.0104	ND		0.0113	ND		0.0103
Aroclor 1242	53469-21-9	17	0.14	46	ND		0.00715	ND		0.00729	ND		0.00835	ND		0.00729	ND		0.00679	ND		0.0069	ND		0.00705	ND		0.00661	ND		0.00722	ND		0.00656
Aroclor 1248	12672-29-6	67	0.14	46	ND		0.00796	ND		0.00811	ND		0.00929	ND		0.00811	ND		0.00756	ND		0.00768	ND		0.00784	ND		0.00735	ND		0.00803	ND		0.0073
Aroclor 1254	11097-69-1	380	0.19	64	ND		0.0058	ND		0.00592	ND		0.00678	ND		0.00592	ND		0.00551	ND		0.0056	ND		0.00572	ND		0.00536	ND		0.00586	ND		0.00532
Aroclor 1260	11096-82-5	630	0.14	46	0.0631		0.0098	0.0291	J	0.01	ND		0.0114	ND		0.00999	ND		0.00931	ND		0.00946	ND		0.00967	0.063		0.00906	ND		0.00989	ND		0.00899
Aroclor 1262	37324-23-5	NA	NA	NA	ND		0.00674	ND		0.00687	ND		0.00787	ND		0.00687	ND		0.0064	ND		0.0065	ND		0.00664	ND		0.00622	ND		0.0068	ND		0.00618
Aroclor 1268	11100-14-4	NA	NA	NA	ND		0.0055	0.00837	J	0.0056	ND		0.00642	ND		0.0056	ND		0.00522	ND		0.0053	ND		0.00542	ND		0.00508	ND		0.00555	ND		0.00504
PCBs, Total	1336-36-3	NA	NA	NA	0.0631		0.00471	0.0375	J	0.0048	ND		0.0055	ND		0.0048	ND		0.00447	ND		0.00454	ND		0.00464	0.063		0.00435	ND		0.00475	ND		0.00432
Target Analyte List Metals (mg/kg) - EPA 6010B/7471B																																		
Aluminum, Total	7429-90-5	190000	NA	190000	6290		2.84	5860		5.94	11400		16.3	3040		2.92	3550		2.61	3090		2.61	1980		2.68	4200		2.68	4490		2.78	4390		2.63
Antimony, Total	7440-36-0	27	0.6	1300	ND		3.36	ND		7.04	ND		19.3	ND		3.46	ND		3.09	ND		3.1	ND		3.17	ND		3.17	ND		3.29	ND		3.12
Arsenic, Total	7440-38-2	29	1	61	8.9		0.377	20.5		0.79	4.89	J	2.17	5.92		0.388	10.5		0.347	5.14		0.347	12.9		0.356	4.02		0.356	4		0.369	7.88		0.35
Barium, Total	7440-39-3	8200	200	190000	268		0.093	492		0.194	139		0.532	187		0.095	183		0.085	81.2		0.085	129		0.087	83.8		0.087	63.8		0.091	183		0.086
Beryllium, Total	7440-41-7	320	0.4	6400	0.671		0.048	0.407	J	0.1	0.962	J	0.276	0.276	J	0.049	0.288	J	0.044	0.385	J	0.044	0.214	J	0.045	0.47		0.045	0.366	J	0.047	0.372	J	0.045
Cadmium, Total	7440-43-9	38	0.5	1600	1.02		0.048	7.61		0.1	1.24	J	0.276	0.358	J	0.049	1.8		0.044	0.185	J	0.044	0.549	J	0.045	0.218	J	0.045	0.226	J	0.047	0.774	J	0.045
Calcium, Total	7440-70-2	NA	NA	NA	11700		4.95	2870		10.4	1380		28.4	29000		5.09	8540		4.55	633		4.56	4960		4.67	17400		4.67	6460		4.85	1860		4.59
Chromium, Total	7440-47-3	NA	NA	NA	49.5		0.741	26.6		1.55	18.4		4.25	8.05		0.762	28.6		0.681	14.2		0.682	6.42		0.699	11.2		0.699	9.84		0.725	12.3		0.686
Cobalt, Total	7440-48-4	130	3	960	5.87		0.217	6.8		0.454	15.6		1.24	2.62		0.223	4.63		0.199	2.82		0.199	2.32		0.204	2.48		0.204	4.29		0.212	3.78		0.201
Copper, Total	7440-50-8	43000	100	100000	67.1		0.198	120		0.415	37.8		1.14	70.5		0.204	73.7		0.182	19.2		0.182	67.6		0.187	17.7		0.187	31.9		0.194	69.4		0.184
Iron, Total	7439-89-6	NA	NA	190000	20400		0.917	31900		1.92	13200		5.27	7680		0.943	21300		0.843	12300		0.844	8230		0.865	8640		0.866	8070		0.897	18800		0.85
Lead, Total	7439-92-1	450	0.5	1000	672		0.208	602		0.435	177		1.19	432		0.214	848		0.191	77.4		0.191	307		0.196	77.5		0.196	144		0.203	635		0.193
Magnesium, Total	7439-95-4	NA	NA	NA	4170		1.42	2500		2.98	1740		8.18	1040		1.46	1150		1.31	1070		1.31	415		1.34	2240		1.34	4540		1.39	1140		1.32
Manganese, Total	7439-96-5	2000	30	190000	420		0.468	940		0.98	131		2.69	188		0.481	185		0.43	50		0.431	65.4		0.442	221		0.442	112		0.458	355		0.434
Mercury, Total	7439-97-6	10	0.2	510	0.499		0.048	1.08		0.061	0.638		0.067	3.67		0.115	0.988		0.053	0.097		0.047	0.388		0.057	0.097		0.044	0.881		0.054	0.91		0.053
Nickel, Total	7440-02-0	650	10	64000	19.8		0.706	14.8		1.48	17.5		4.05	7.13		0.726	14.8		0.649	7.73		0.65	5.61		0.666	6.24		0.666	7.26		0.69	7.07		0.654
Potassium, Total	7440-09-7	NA	NA	NA	802		44.3	770		92.7	524	J	254	337		45.5	276		40.7	316		40.8	223		41.8	400		41.8	430		43.3	622		41
Selenium, Total	7782-49-2	26	5	16000	0.456	J	0.287	2.13	J	0.602	ND		1.65	0.686	J	0.295	0.496	J	0.264	0.351	J	0.264	1.68		0.271	0.353	J	0.271	ND		0.281	0.617	J	0.266
Silver, Total	7440-22-4	84	10	16000	0.451		0.26	1.78		0.545	ND		1.49	0.508		0.268	0.471		0.239	0.281	J	0.24	0.315	J	0.246	ND		0.246	ND		0.255	0.447		0.241
Sodium, Total	7440-23-5	NA	NA	NA	130	J	92.6	ND		194	ND		532	222		95.2	124	J	85.1	ND		85.2	ND		87.4	90.3	J	87.4	ND		90.6	ND		85.8
Thallium, Total	7440-28-0	14	0.2	32	ND		0.788	ND		1.65	ND		4.52	ND		0.81	ND		0.724	ND		0.725	ND		0.743	ND		0.744	ND		0.771	ND		0.73
Vanadium, Total	7440-62-2	680	0.68	16000	28.8		0.132	18.5		0.276	28		0.757	13.8		0.136	28.5		0.121	13.6		0.121	6.23		0.124	8		0.124	15.2		0.129	17.5		0.122
Zinc, Total	7440-66-6	12000	200	190000	271		0.529	2790		1.11	963		3.04	216		0.544	254		0.486	82.7		0.487	311		0.499	79.8		0.5	153		0.518	625		0.49
General Chemistry																																		
Chromium, Hexavalent	18540-29-9	190	10	180	0.324	J	0.179	ND		0.186	ND		0.208	ND		0.181	0.243	J	0.169	0.241	J	0.168	ND		0.168	ND		0.167	0.184	J	0.174	ND		0.164
Solids, Total	NONE	NA	NA	NA	89.5		NA	85.9		NA	77.1		NA	88.3		NA	94.8		NA	95.5		NA	95.4		NA	95.6		NA	92.2		NA	97.6		NA

Notes:
MSC - MEDIUM -SPECIFIC CONCENTRATIONS FOR ORGANIC REGULATED SUBSTANCES IN SOIL
PADEP SHS - Pennsylvania Department of Environmental Protection Statewide Health Standards
Results compared to the PADEP SHS Non-residential Direct Contact, Generic, and 100X GW
Soil-to-Groundwater (TDS≤2500 mg/L) MSCs, criteria last updated November 20, 2021.
The higher of the Generic and 100X GW Soil-to-Groundwater MSC values was used as the Soil-to-Groundwater limit.
The lower of the Generic/100X GW Soil-to-Groundwater and Direct Contact MSC values was used as the soil limit.
- Indicates the selected PADEP SHS Non-Residential MSC limit.
ND - Not Detected
MDL - Method Detection Limit
Q - Qualifier
J - Result is less than the reporting limit but greater than or equal to the MDL and indicates an approximate value.
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
mg/kg - milligrams per kilogram
NA - Not Applicable
- The concentration exceeds the selected PADEP SHS Non-Residential MSC limit and RFCL.
- The analyte MDL exceeds the SHS or RFCL, however the result is reported as ND.

Table 3: Subsurface Soil Sampling Results - 2025
49th Street Terminal Site
1700 S 49th Street, Philadelphia, PA 19143

verdantas

Sample ID		PADEP SHS			SB-01B			SB-02B			DUP-01			DUP-01			SB-03B			SB-06B			SB-07B			SB-08B			SB-09B			SB-10B		
Lab Sample ID		Non-Residential			L2550677-02			L2550677-04			L2550677-09			L2550677-09 R1			L2550677-06			L2550677-12			L2550922-02			L2550677-14			L2550677-16			L2550922-08		
Date Sampled		Soil to Groundwater Generic TDS≤2500	Soil to Groundwater 100X TDS≤2500	Subsurface Soil Direct Contact 2-15 feet	8/12/2025			8/12/2025			8/12/2025			8/12/2025			8/12/2025			8/12/2025			8/13/2025			8/12/2025			8/12/2025			8/13/2025		
Sample Depth					6.0 - 8.0 feet			3.0 - 6.5 feet			8.0 - 10.0 feet			8.0 - 10.0 feet			5.5 - 7.5 feet			3.0 - 6.0 feet			5.0 - 6.5 feet			5.0 - 6.5 feet			5.0 - 6.75 feet			6.0 - 8.0 feet		
	CAS Number				Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
Target Compound List Volatile Organic Compounds (mg/kg) - EPA 5035																																		
1,1,1-Trichloroethane	71-55-6	7.2	20	10000	ND		0.016	ND		0.027	ND		0.00029	-		-	ND		0.00016	ND		0.028	ND		0.00055	ND		0.021	ND		0.01	ND		0.00049
1,1,2,2-Tetrachloroethane	79-34-5	0.13	0.43	44	ND		0.016	ND		0.027	ND		0.00029	-		-	ND		0.00016	ND		0.028	ND		0.00054	ND		0.021	ND		0.01	ND		0.00048
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	10000	4400	10000	ND		0.068	ND		0.11	ND		0.0012	-		-	ND		0.00068	ND		0.12	ND		0.0023	ND		0.087	ND		0.042	ND		0.002
1,1,2-Trichloroethane	79-00-5	0.15	0.5	18	ND		0.026	ND		0.043	ND		0.00046	-		-	ND		0.00026	ND		0.046	ND		0.00088	ND		0.034	ND		0.016	ND		0.00078
1,1-Dichloroethane	75-34-3	3.9	16	1600	ND		0.014	ND		0.024	ND		0.00025	-		-	ND		0.00014	ND		0.025	ND		0.00048	ND		0.018	ND		0.0087	ND		0.00042
1,1-Dichloroethene	75-35-4	0.19	0.7	10000	ND		0.023	ND		0.039	ND		0.00041	-		-	ND		0.00023	ND		0.041	ND		0.00078	ND		0.03	ND		0.014	ND		0.00069
1,2,3-Trichlorobenzene	87-61-6	NA	NA	NA	ND		0.032	ND		0.052	ND		0.00056	-		-	ND		0.00032	ND		0.055	ND		0.001	ND		0.04	ND		0.019	ND		0.00094
1,2,4-Trichlorobenzene	120-82-1	27	7	190	ND		0.027	ND		0.044	ND		0.00047	-		-	ND		0.00027	ND		0.046	ND		0.00089	ND		0.034	ND		0.016	ND		0.00079
1,2-Dibromo-3-chloropropane	96-12-8	0.0092	0.02	0.42	ND		0.098	ND		0.16	ND		0.0017	-		-	ND		0.00098	ND		0.17	ND		0.0033	ND		0.12	ND		0.06	ND		0.0029
1,2-Dibromoethane	106-93-4	0.0012	0.005	4.2	ND		0.029	ND		0.048	ND		0.00051	-		-	ND		0.00029	ND		0.05	ND		0.00096	ND		0.037	ND		0.018	ND		0.00085
1,2-Dichlorobenzene	95-50-1	59	60	10000	ND		0.014	ND		0.023	ND		0.00025	-		-	ND		0.00014	ND		0.025	ND		0.00047	ND		0.018	ND		0.0086	ND		0.00042
1,2-Dichloroethane	107-06-2	0.1	0.5	98	ND		0.025	ND		0.042	ND		0.00044	-		-	ND		0.00025	ND		0.044	ND		0.00084	ND		0.032	ND		0.015	ND		0.00075
1,2-Dichloroethene, Total	540-59-0	NA	NA	NA	ND		0.013	ND		0.022	ND		0.00024	-		-	ND		0.00013	ND		0.023	ND		0.00045	ND		0.017	ND		0.0082	ND		0.0004
1,2-Dichloropropane	78-87-5	0.11	0.5	0.69	ND		0.012	ND		0.02	ND		0.00022	-		-	ND		0.00012	ND		0.021	ND		0.00041	ND		0.016	ND		0.0075	ND		0.00036
1,3-Dichlorobenzene	541-73-1	61	60	10000	ND		0.014	ND		0.024	ND		0.00026	-		-	ND		0.00014	ND		0.025	ND		0.00048	ND		0.018	ND		0.0089	ND		0.00043
1,3-Dichloropropene, Total	542-75-6	0.48	2.7	640	ND		0.016	ND		0.026	ND		0.00027	-		-	ND		0.00016	ND		0.027	ND		0.00052	ND		0.02	ND		0.0095	ND		0.00046
1,4-Dichlorobenzene	106-46-7	10	7.5	230	ND		0.017	ND		0.028	ND		0.0003	-		-	ND		0.00017	ND		0.029	ND		0.00056	ND		0.021	ND		0.01	ND		0.0005
1,4-Dioxane	123-91-1	0.35	2.7	510	ND		3.4	ND		5.7	ND		0.061	-		-	ND		0.034	ND		6	ND		0.12	ND		4.4	ND		2.1	ND		0.1
2-Butanone	78-93-3	76	400	10000	ND		0.22	ND		0.36	0.029		0.0038	-		-	ND		0.0022	ND		0.38	0.046		0.0073	ND		0.28	ND		0.13	ND		0.0065
2-Hexanone	591-78-6	6.4	26	2700	ND		0.12	ND		0.19	ND		0.002	-		-	ND		0.0012	ND		0.2	ND		0.0039	ND		0.15	ND		0.071	ND		0.0034
4-Methyl-2-pentanone	108-10-1	120	780	10000	ND		0.12	ND		0.21	ND		0.0022	-		-	ND		0.0012	ND		0.22	ND		0.0042	ND		0.16	ND		0.077	ND		0.0037
Acetone	67-64-1	980	8800	10000	ND		0.47	0.98	J	0.78	0.079		0.017	-		-	0.3	E	0.0098	ND		0.82	0.1		0.033	ND		0.6	ND		0.29	0.18		0.029
Benzene	71-43-2	0.13	0.5	330	2		0.016	0.69		0.027	0.00044	J	0.00029	-		-	0.00024	J	0.00016	39		0.028	ND		0.00054	5.9		0.021	ND		0.01	0.0014		0.00048
Bromochloromethane	74-97-5	1.6	9	3600	ND		0.02	ND		0.033	ND		0.00035	-		-	ND		0.0002	ND		0.035	ND		0.00067	ND		0.026	ND		0.012	ND		0.0006
Bromodichloromethane	75-27-4	2.7	8	69	ND		0.011	ND		0.018	ND		0.00019	-		-	ND		0.00011	ND		0.019	ND		0.00036	ND		0.014	ND		0.0066	ND		0.00032
Bromoform	75-25-2	3.5	8	2300	ND		0.024	ND		0.04	ND		0.00042	-		-	ND		0.00024	ND		0.042	ND		0.00081	ND		0.031	ND		0.015	ND		0.00072
Bromomethane	74-83-9	0.54	1	460	ND		0.057	ND		0.094	ND		0.001	-		-	ND		0.00057	ND		0.099	ND		0.0019	ND		0.073	ND		0.035	ND		0.0017
Carbon disulfide	75-15-0	530	620	10000	ND		0.45	ND		0.74	ND		0.0079	-		-	ND		0.0045	ND		0.78	ND		0.015	ND		0.57	ND		0.27	ND		0.013
Carbon tetrachloride	56-23-5	0.26	0.5	430	ND		0.022	ND		0.037	ND		0.0004	-		-	ND		0.00023	ND		0.039	ND		0.00075	ND		0.029	ND		0.014	ND		0.00067
Chlorobenzene	108-90-7	6.1	10	4500	ND		0.012	ND		0.021	ND		0.00022	-		-	ND		0.00012	ND		0.022	ND		0.00042	ND		0.016	ND		0.0076	ND		0.00037
Chloroethane	75-00-3	1900	8800	10000	ND		0.044	ND		0.073	ND		0.00078	-		-	ND		0.00044	ND		0.077	ND		0.0015	ND		0.057	ND		0.027	ND		0.0013
Chloroform	67-66-3	2	8	110	ND		0.014	ND		0.023	ND		0.00024	-		-	ND		0.00014	ND		0.024	ND		0.00046	0.02	J	0.018	ND		0.0084	ND		0.00041
Chloromethane	74-87-3	0.38	3	1400	ND		0.092	ND		0.15	ND		0.0016	-		-	ND		0.00092	ND		0.16	ND		0.003	ND		0.12	ND		0.056	ND		0.0027
cis-1,2-Dichloroethene	156-59-2	1.6	7	10000	ND		0.017	ND		0.028	ND		0.0003	-		-	ND		0.00017	ND		0.03	ND		0.00057	ND		0.022	ND		0.01	ND		0.00051
cis-1,3-Dichloropropene	10061-01-5	0.61	3.4	640	ND		0.016	ND		0.026	ND		0.00027	-		-	ND		0.00016	ND		0.027	ND		0.00052	ND		0.02	ND		0.0095	ND		0.00046
Cyclohexane	110-82-7	6900	5300	10000	0.091	J	0.053	0.12	J	0.088	0.12		0.00094	-		-	0.55	E	0.00054	1.5	J	0.093	0.0018	J	0.0018	ND		0.068	ND		0.033	0.068		0.0016
Dibromochloromethane	124-48-1	2.5	8	10000	ND		0.014	ND		0.023	ND		0.00024	-		-	ND		0.00014	ND		0.024	ND		0.00046	ND		0.018	ND		0.0084	ND		0.00041
Dichlorodifluoromethane	75-71-8	100	100	9100	ND		0.09	ND		0.15	ND		0.0016	-		-	ND		0.0009	ND		0.16	ND		0.003	ND		0.11	ND		0.055	ND		0.0027
Ethylbenzene	100-41-4	46	70	1000	0.2		0.014	0.6		0.023	0.0017		0.00024	-		-	0.01		0.00014	24		0.024	ND		0.00046	0.54		0.018	ND		0.0085	ND		0.00041
Isopropylbenzene	98-82-8	2500	350	10000	4.4		0.011	1.6		0.018	0.013		0.00019	-		-	4.1	E	0.00011	2		0.019	0.0023	J	0.00036	0.17		0.014	0.015	J	0.0066	1.4	E	0.00032
Methyl Acetate	79-20-9	1800	9700	10000	0.24	J	0.093	2.3		0.15	ND		0.0016	-		-	ND		0.00093	1		0.16	ND		0.0031	0.34	J	0.12	0.22	J	0.057	ND		0.0028
Methyl cyclohexane	108-87-2	NA	NA	NA	1.4		0.059	0.69		0.098	0.22		0.001	-		-	1.3	E	0.00059	5.5		0.1	0.0057	J	0.002	0.41	J	0.076	0.19	J	0.036	0.46		0.0018
Methyl tert butyl ether	1634-04-4	0.28	2	9800	ND		0.02	ND		0.033	ND		0.00035	-		-	ND		0.0002	ND		0.034	ND		0.00066	ND		0.025	ND		0.012	ND		0.00058
Methylene chloride	75-09-2	0.076	0.5	10000	ND		0.22	ND		0.37	ND		0.004	-		-	ND		0.0022	ND		0.39	ND		0.0075	0.4	J	0.29	ND		0.14	ND		0.0067
o-Xylene	95-47-6	990	1000	9100	0.14		0.028	0.24		0.047	0.002		0.0005	-		-	0.024		0.00029	7.1		0.05	ND		0.00095	0.19		0.036	ND		0.017	0.04		0.00085
p/m-Xylene	179601-23-1	990	1000	9100	0.62		0.055	2.1		0.091	0.005		0.00097	-		-	0.063		0.00055	70		0.096	ND		0.0018	1.2		0.07	ND		0.034	0.039		0.0016
Styrene	100-42-5	24	10	10000	ND		0.019	ND		0.032	ND		0.00034	-		-	ND		0.00019	ND		0.034	ND		0.00064	ND		0.024	0.046	J	0.012	ND		0.00057
Tetrachloroethene	127-18-4	0.43	0.5	3600	ND		0.019	ND		0.032	ND		0.00034	-		-	ND		0.00019	ND		0.034	ND		0.00064	ND		0.024	ND		0.012	ND		0.00057
Toluene	108-88-3	44	100	10000	0.56		0.053	0.56		0.088	ND		0.00094	-		-	0.023		0.00053	22		0.093	ND		0.0018	0.68		0.068	ND		0.033	0.02		0.0016
trans-1,2-Dichloroethene	156-60-5	2.3	10	10000	ND		0.013	ND		0.022	ND		0.00024	-		-	ND		0.00013	ND		0.023	ND		0.00045	ND		0.017	ND		0.0082	ND		0.0004
trans-1,3-Dichloropropene	10061-02-6	0.61	3.4	640	ND		0.027	ND		0.044	ND		0.00047	-		-	ND		0.00027	ND		0.047	ND		0.0009	ND		0.034	ND		0.016	ND		0.0008
Trichloroethene	79-01-6	0.17	0.5	180	ND		0.013	ND		0.022	ND		0.00024	-		-	ND		0.00013	ND		0.023	ND		0.00045	ND		0.017	ND		0.0082	ND		0.0004
Trichlorofluoromethane	75-69-4	87	200	10000	ND		0.068	ND		0.11	ND		0.0012	-		-	ND		0.00068	ND		0.12	ND		0.0023	ND		0.087	ND		0.042	ND		0.002
Vinyl chloride	75-01-4	0.027	0.2	290	ND		0.033	ND		0.054	ND		0.00058	-		-	ND		0.00033	ND		0.057	ND		0.0011	ND		0.042	ND		0.02	ND		0.00098
Xylenes, Total	1330-20-7	990	1000	9100	0.76		0.028	2.3		0.047	0.007		0.0005	-		-	0.087		0.00029	77		0.05	ND		0.00095	1.4		0.036	ND		0.017	0.079		0.00085
Target Compound List Volatile Organic Compounds (mg/kg) - EPA 5035 HIGH																																		
1,1,1-Trichloroethane	71-55-6	7.2	20	10000	-		-	-		-	-		-	-		-	ND		0.011	-		-	-		-	-		-	-		-	ND		0.045
1,1,2,2-Tetrachloroethane	79-34-5	0.13	0.43	44	-		-	-		-	-		-	-		-	ND		0.011	-		-	-		-	-		-	-		-	ND		0.045
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	10000	4400	10000	-		-	-		-	-		-	-		-	ND		0.046	-		-	-		-	-		-	-		-	ND		0.19
1,1,2-Trichloroethane	79-00-5	0.15	0.5	18	-		-	-		-	-		-	-		-	ND		0.018	-		-	-		-	-		-	-		-	ND		0.072
1,1-Dichloroethane	75-34-3	3.9	16	1600	-		-	-		-	-		-	-		-	ND		0.0096	-		-	-		-	-		-	-		-	ND		0.039
1,1-Dichloroethene	75-35-4	0.19	0.7	10000	-		-	-		-	-		-	-		-	ND		0.016	-		-	-		-	-		-	-		-	ND		0.064
1,2,3-Trichlorobenzene	87-61-6	NA	NA	NA	-		-	-		-	-		-	-		-	ND		0.021	-		-	-		-	-		-	-		-	ND		0.087
1,2,4-Trichlorobenzene	120-82-1	27	7	190	-		-	-		-	-		-	-		-	ND		0.018	-		-	-		-	-		-	-		-	ND		0.074
1,2-Dibromo-3-chloropropane	96-12-8	0.0092	0.02	0.42	-		-	-		-	-		-	-		-	ND		0.066	-		-	-		-	-		-	-		-	ND		0.27
1,2-Dibromoethane	106-93-4	0.0012	0.005	4.2	-		-	-		-	-		-	-		-	ND		0.019	-		-	-		-	-		-	-		-	ND		0.079
1,2-Dichlorobenzene	95-50-1	59	60	10000	-		-	-		-	-		-	-		-	ND		0.0095	-		-	-		-	-		-	-		-	ND		0.039
1,2-Dichloroethane	107-06-2	0.1	0.5	98	-		-	-		-	-		-	-		-	ND		0.017	-		-	-		-	-		-	-		-	ND		0.07
1,2-Dichloroethene, Total	540-59-0	NA	NA	NA	-		-	-		-	-		-	-		-	ND		0.009	-		-	-		-	-		-	-		-	ND		0.037
1,2-Dichloropropane	78-87-5	0.11	0.5	0.69	-		-	-		-	-		-	-		-	ND		0.0082	-		-	-		-	-		-	-		-	ND		0.034
1,3-Dichlorobenzene	541-73-1	61	60	10000	-		-	-		-	-		-	-		-	ND		0.0098	-		-	-		-	-		-	-		-	ND		0.04
1,3-Dichloropropene, Total	542-75-6	0.48	2.7	640	-		-	-		-	-		-	-		-	ND		0.01	-		-	-		-	-		-	-		-	ND		0.043
1,4-Dichlorobenzene	106-46-7	10	7.5	230	-		-	-		-	-		-	-		-	ND		0.011	-		-	-		-	-		-	-		-	ND		0.046
1,4-Dioxane	123-91-1	0.35	2.7	510	-		-	-		-	-		-	-		-	ND		2.3	-		-	-		-	-		-	-		-	ND		9.5
2-Butanone	78-93-3	76	400	10000	-		-	-		-	-		-	-		-	ND		0.15	-		-	-		-	-		-	-		-	ND		0.6
2-Hexanone	591-78-6	6.4	26	2700	-		-	-		-	-		-	-		-	ND		0.078	-		-	-		-	-		-	-		-	ND		0.32
4-Methyl-2-pentanone	108-10-1	120	780	10000	-		-	-		-	-		-	-		-	ND		0.084	-		-	-		-	-		-	-		-	ND		0.35
Acetone	67-64-1	980	8800	10000	-		-	-		-	-		-	-		-	ND		0.32	-		-	-		-	-		-	-		-	ND		1.3
Benzene	71-43-2	0.13	0.5	330	-		-	-		-	-		-	-		-	ND		0.011	-		-	-		-	-		-	-		-	0.13	J	0.045
Bromochloromethane	74-97-5	1.6	9	3600	-		-	-		-	-		-	-		-	ND		0.014	-		-	-		-	-		-	-		-	ND		0.055
Bromodichloromethane	75-27-4	2.7	8	69	-		-	-		-	-		-	-		-	ND		0.0072	-		-	-		-	-		-	-		-	ND		0.029
Bromoform	75-25-2	3.5	8	2300	-		-	-		-	-		-	-		-	ND		0.016	-		-	-		-	-		-	-		-	ND		0.066
Bromomethane	74-83-9	0.54	1	460	-		-	-		-	-		-	-		-	ND		0.038	-		-	-		-	-		-	-		-	ND		0.16
Carbon disulfide	75-15-0	530	620	10000	-		-	-		-	-		-	-		-	ND		0.3	-		-	-		-	-		-	-		-	ND		1.2
Carbon tetrachloride	56-23-5	0.26	0.5	430	-		-	-		-	-		-	-		-	ND		0.015	-		-	-		-	-		-	-		-	ND		0.062
Chlorobenzene	108-90-7	6.1	10	4500	-		-	-		-	-		-	-		-	ND		0.0084	-		-	-		-	-		-	-		-	ND		0.034
Chloroethane	75-00-3	1900	8800	10000	-		-	-		-	-		-	-		-	ND		0.03	-		-	-		-	-		-	-		-	ND		0.12
Chloroform	67-66-3	2	8	110	-		-	-		-	-		-	-		-	ND		0.0092	-		-	-		-	-		-	-		-	ND		0.038
Chloromethane	74-87-3	0.38	3	1400	-		-	-		-	-		-	-		-	ND		0.062	-		-	-		-	-		-	-		-	ND		0.25
cis-1,2-Dichloroethene	156-59-2	1.6	7	10000	-		-	-		-	-		-	-		-	ND		0.012	-		-	-		-	-		-	-		-	ND		0.047
cis-1,3-Dichloropropene	10061-01-5	0.61	3.4	640	-		-	-		-	-		-	-		-	ND		0.01	-		-	-		-	-		-	-		-	ND		0.043
Cyclohexane	110-82-7	6900	5300	10000	-		-	-		-	-		-	-		-	ND		0.036	-		-	-		-	-		-	-		-	ND		0.15
Dibromochloromethane	124-48-1	2.5	8	10000	-		-	-		-	-		-	-		-	ND		0.0092	-		-	-		-	-		-	-		-	ND		0.038

Table 3: Subsurface Soil Sampling Results - 2025
49th Street Terminal Site
1700 S 49th Street, Philadelphia, PA 19143

verdantas

Sample ID		PADEP SHS			SB-11B			SB-12B			SB-13B			DUP-02			SB-14B			SB-15B			SB-16B			MW-01B			MW-02B			MW-02B		
Lab Sample ID		Non-Residential			L2550922-11			L2550922-13			L2550922-16			L2550922-17			L2550922-19			L2550922-21			L2550922-23			L2550922-05			L2551270-02			L2551270-02 R1		
Date Sampled		Soil to Groundwater Generic TDS≤2500	Soil to Groundwater 100X TDS≤2500	Subsurface Soil Direct Contact 2-15 feet	8/13/2025			8/13/2025			8/13/2025			8/13/2025			8/13/2025			8/13/2025			8/13/2025			8/13/2025			8/14/2025			8/14/2025		
Sample Depth					5.5 - 7.0 feet			5.0 - 6.5 feet			7.0 - 8.5 feet			5.0 - 7.0 feet			6.0 - 8.0 feet			6.0 - 7.0 feet			6.0 - 8.0 feet			5.0 - 6.5 feet			5.0 - 7.0 feet			5.0 - 7.0 feet		
	CAS Number				Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
Target Compound List Volatile Organic Compounds (mg/kg) - EPA 5035																																		
1,1,1-Trichloroethane	71-55-6	7.2	20	10000	ND		0.0003	ND		0.014	ND		0.00016	ND		0.00024	ND		0.016	ND		0.02	ND		0.12	ND		0.0002	ND		0.00036	ND		0.00021
1,1,2,2-Tetrachloroethane	79-34-5	0.13	0.43	44	ND		0.0003	ND		0.014	ND		0.00016	ND		0.00024	ND		0.016	ND		0.02	ND		0.12	ND		0.0002	ND		0.00036	ND		0.00021
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	10000	4400	10000	ND		0.0012	ND		0.058	ND		0.00068	ND		0.00099	ND		0.066	ND		0.084	ND		0.48	ND		0.00083	ND		0.0015	ND		0.00089
1,1,2-Trichloroethane	79-00-5	0.15	0.5	18	ND		0.00048	ND		0.022	ND		0.00026	ND		0.00038	ND		0.026	ND		0.032	ND		0.18	ND		0.00032	ND		0.00058	ND		0.00034
1,1-Dichloroethane	75-34-3	3.9	16	1600	ND		0.00026	ND		0.012	ND		0.00014	ND		0.00021	ND		0.014	ND		0.018	ND		0.1	ND		0.00017	ND		0.00032	ND		0.00018
1,1-Dichloroethene	75-35-4	0.19	0.7	10000	ND		0.00042	ND		0.02	ND		0.00023	ND		0.00034	ND		0.023	ND		0.029	ND		0.16	ND		0.00028	ND		0.00052	ND		0.0003
1,2,3-Trichlorobenzene	87-61-6	NA	NA	NA	ND		0.00058	ND		0.027	ND		0.00031	ND		0.00046	ND		0.031	ND		0.039	ND		0.22	ND		0.00038	ND		0.0007	ND		0.00041
1,2,4-Trichlorobenzene	120-82-1	27	7	190	ND		0.00049	ND		0.023	ND		0.00026	ND		0.00039	ND		0.026	ND		0.033	ND		0.19	ND		0.00032	ND		0.00059	ND		0.00035
1,2-Dibromo-3-chloropropane	96-12-8	0.0092	0.02	0.42	ND		0.0018	ND		0.083	ND		0.00097	ND		0.0014	ND		0.095	ND		0.12	ND		0.69	ND		0.0012	ND		0.0022	ND		0.0013
1,2-Dibromoethane	106-93-4	0.0012	0.005	4.2	ND		0.00052	ND		0.024	ND		0.00028	ND		0.00042	ND		0.028	ND		0.036	ND		0.2	ND		0.00035	ND		0.00064	ND		0.00037
1,2-Dichlorobenzene	95-50-1	59	60	10000	ND		0.00026	ND		0.012	ND		0.00014	ND		0.0002	ND		0.014	ND		0.017	ND		0.1	0.0003	J	0.00017	ND		0.00031	ND		0.00018
1,2-Dichloroethane	107-06-2	0.1	0.5	98	ND		0.00046	ND		0.021	ND		0.00025	ND		0.00037	ND		0.024	ND		0.031	ND		0.18	ND		0.00031	ND		0.00056	ND		0.00033
1,2-Dichloroethene, Total	540-59-0	NA	NA	NA	ND		0.00024	ND		0.011	ND		0.00013	ND		0.0002	ND		0.013	ND		0.017	ND		0.095	ND		0.00016	ND		0.0003	ND		0.00018
1,2-Dichloropropane	78-87-5	0.11	0.5	0.69	ND		0.00022	ND		0.01	ND		0.00012	ND		0.00018	ND		0.012	ND		0.015	ND		0.087	ND		0.00015	ND		0.00027	ND		0.00016
1,3-Dichlorobenzene	541-73-1	61	60	10000	ND		0.00026	ND		0.012	ND		0.00014	ND		0.00021	ND		0.014	ND		0.018	ND		0.1	ND		0.00018	ND		0.00032	ND		0.00019
1,3-Dichloropropene, Total	542-75-6	0.48	2.7	640	ND		0.00028	ND		0.013	ND		0.00015	ND		0.00022	ND		0.015	ND		0.019	ND		0.11	ND		0.00019	ND		0.00034	ND		0.0002
1,4-Dichlorobenzene	106-46-7	10	7.5	230	ND		0.0003	ND		0.014	ND		0.00017	ND		0.00024	ND		0.016	ND		0.021	ND		0.12	ND		0.0002	ND		0.00037	ND		0.00022
1,4-Dioxane	123-91-1	0.35	2.7	510	ND		0.063	ND		2.9	ND		0.034	ND		0.05	ND		3.4	ND		4.3	ND		24	ND		0.042	ND		0.077	ND		0.045
2-Butanone	78-93-3	76	400	10000	ND		0.004	ND		0.18	0.013		0.0022	ND		0.0032	ND		0.21	ND		0.27	ND		1.5	0.028		0.0027	ND		0.0048	ND		0.0028
2-Hexanone	591-78-6	6.4	26	2700	ND		0.0021	ND		0.098	ND		0.0012	ND		0.0017	ND		0.11	ND		0.14	ND		0.82	ND		0.0014	ND		0.0026	ND		0.0015
4-Methyl-2-pentanone	108-10-1	120	780	10000	ND		0.0023	ND		0.11	ND		0.0012	ND		0.0018	ND		0.12	ND		0.16	ND		0.89	ND		0.0015	ND		0.0028	ND		0.0016
Acetone	67-64-1	980	8800	10000	0.038	J	0.018	ND		0.4	0.052		0.0098	ND		0.014	ND		0.46	ND		0.58	ND		3.3	0.1		0.012	ND		0.022	ND		0.013
Benzene	71-43-2	0.13	0.5	330	0.00092		0.0003	0.038	J	0.014	0.00025	J	0.00016	ND		0.00024	1		0.016	0.65		0.02	0.16	J	0.12	0.00089		0.0002	0.00065	J	0.00036	ND		0.00021
Bromochloromethane	74-97-5	1.6	9	3600	ND		0.00037	ND		0.017	ND		0.0002	ND		0.00029	ND		0.02	ND		0.025	ND		0.14	ND		0.00024	ND		0.00045	ND		0.00026
Bromodichloromethane	75-27-4	2.7	8	69	ND		0.00019	ND		0.0091	ND		0.00011	ND		0.00016	ND		0.01	ND		0.013	ND		0.076	ND		0.00013	ND		0.00024	ND		0.00014
Bromoform	75-25-2	3.5	8	2300	ND		0.00044	ND		0.02	ND		0.00024	ND		0.00035	ND		0.024	ND		0.03	ND		0.17	ND		0.00029	ND		0.00054	ND		0.00031
Bromomethane	74-83-9	0.54	1	460	ND		0.001	ND		0.048	ND		0.00057	ND		0.00083	ND		0.056	ND		0.07	ND		0.4	ND		0.0007	ND		0.0013	ND		0.00074
Carbon disulfide	75-15-0	530	620	10000	ND		0.0081	ND		0.38	ND		0.0044	ND		0.0065	ND		0.44	ND		0.55	ND		3.2	ND		0.0054	ND		0.0099	ND		0.0058
Carbon tetrachloride	56-23-5	0.26	0.5	430	ND		0.00041	ND		0.019	ND		0.00022	ND		0.00033	ND		0.022	ND		0.028	ND		0.16	ND		0.00028	ND		0.0005	ND		0.00029
Chlorobenzene	108-90-7	6.1	10	4500	ND		0.00023	ND		0.01	ND		0.00012	ND		0.00018	ND		0.012	ND		0.015	ND		0.088	ND		0.00015	ND		0.00028	ND		0.00016
Chloroethane	75-00-3	1900	8800	10000	ND		0.00081	ND		0.038	ND		0.00044	ND		0.00064	ND		0.043	ND		0.055	ND		0.31	ND		0.00054	ND		0.00099	ND		0.00058
Chloroform	67-66-3	2	8	110	ND		0.00025	ND		0.012	ND		0.00014	ND		0.0002	ND		0.013	ND		0.017	ND		0.097	ND		0.00017	ND		0.0003	ND		0.00018
Chloromethane	74-87-3	0.38	3	1400	ND		0.0017	ND		0.078	ND		0.00091	ND		0.0013	ND		0.089	ND		0.11	ND		0.64	ND		0.0011	ND		0.002	ND		0.0012
cis-1,2-Dichloroethene	156-59-2	1.6	7	10000	ND		0.00031	ND		0.014	ND		0.00017	ND		0.00025	ND		0.017	ND		0.021	ND		0.12	ND		0.00021	ND		0.00038	ND		0.00022
cis-1,3-Dichloropropene	10061-01-5	0.61	3.4	640	ND		0.00028	ND		0.013	ND		0.00015	ND		0.00022	ND		0.015	ND		0.019	ND		0.11	ND		0.00019	ND		0.00034	ND		0.0002
Cyclohexane	110-82-7	6900	5300	10000	0.013	J	0.00097	ND		0.045	ND		0.00053	ND		0.00078	ND		0.052	ND		0.066	9.1		0.38	0.04		0.00065	0.0016	J	0.0012	ND		0.0007
Dibromochloromethane	124-48-1	2.5	8	10000	ND		0.00025	ND		0.012	ND		0.00014	ND		0.0002	ND		0.013	ND		0.017	ND		0.097	ND		0.00017	ND		0.0003	ND		0.00018
Dichlorodifluoromethane	75-71-8	100	100	9100	ND		0.0016	ND		0.076	ND		0.00089	ND		0.0013	ND		0.088	ND		0.11	ND		0.63	ND		0.0011	ND		0.002	ND		0.0012
Ethylbenzene	100-41-4	46	70	1000	ND		0.00025	0.095		0.012	ND		0.00014	0.00024	J	0.0002	0.23		0.013	0.11	J	0.017	ND		0.098	0.00083	J	0.00017	ND		0.00031	ND		0.00018
Isopropylbenzene	98-82-8	2500	350	10000	0.47		0.00019	2		0.0091	0.00086	J	0.00011	ND		0.00016	0.028	J	0.01	0.027	J	0.013	36		0.076	0.087		0.00013	ND		0.00024	ND		0.00014
Methyl Acetate	79-20-9	1800	9700	10000	ND		0.0017	0.15	J	0.079	ND		0.00093	ND		0.0014	1.1		0.091	0.94		0.12	ND		0.66	ND		0.0011	ND		0.0021	ND		0.0012
Methyl cyclohexane	108-87-2	NA	NA	NA	0.081		0.0011	0.64		0.05	ND		0.00059	0.003	J	0.00086	ND		0.058	0.25	J	0.073	120		0.42	0.12		0.00072	0.0056	J	0.0013	ND		0.00077
Methyl tert butyl ether	1634-04-4	0.28	2	9800	ND		0.00036	ND		0.017	ND		0.0002	ND		0.00029	ND		0.019	ND		0.024	ND		0.14	ND		0.00024	ND		0.00044	ND		0.00026
Methylene chloride	75-09-2	0.076	0.5	10000	ND		0.0041	ND		0.19	ND		0.0022	ND		0.0033	ND		0.22	ND		0.28	ND		1.6	ND		0.0027	ND		0.005	ND		0.0029
o-Xylene	95-47-6	990	1000	9100	0.019		0.00052	0.075	J	0.024	ND		0.00028	ND		0.00042	0.14		0.028	ND		0.035	0.47	J	0.2	0.0034		0.00035	ND		0.00064	ND		0.00037
p/m-Xylene	179601-23-1	990	1000	9100	0.012		0.001	0.27		0.047	ND		0.00055	ND		0.0008	0.72		0.054	0.27		0.068	1	J	0.39	0.0074		0.00067	ND		0.0012	ND		0.00072
Styrene	100-42-5	24	10	10000	ND		0.00035	ND		0.016	ND		0.00019	ND		0.00028	ND		0.019	ND		0.024	ND		0.14	ND		0.00023	ND		0.00043	ND		0.00025
Tetrachloroethene	127-18-4	0.43	0.5	3600	ND		0.00035	ND		0.016	ND		0.00019	ND		0.00028	ND		0.019	ND		0.024	ND		0.14	ND		0.00023	ND		0.00043	ND		0.00025
Toluene	108-88-3	44	100	10000	0.0036		0.00097	0.087		0.045	ND		0.00053	ND		0.00078	0.41		0.052	0.097	J	0.066	0.63	J	0.38	0.0017		0.00065	ND		0.0012	ND		0.00069
trans-1,2-Dichloroethene	156-60-5	2.3	10	10000	ND		0.00024	ND		0.011	ND		0.00013	ND		0.0002	ND		0.013	ND		0.017	ND		0.095	ND		0.00016	ND		0.0003	ND		0.00018
trans-1,3-Dichloropropene	10061-02-6	0.61	3.4	640	ND		0.00049	ND		0.023	ND		0.00027	ND		0.00039	ND		0.026	ND		0.033	ND		0.19	ND		0.00033	ND		0.0006	ND		0.00035
Trichloroethene	79-01-6	0.17	0.5	180	ND		0.00024	ND		0.011	ND		0.00013	ND		0.0002	ND		0.013	ND		0.017	ND		0.095	ND		0.00016	ND		0.0003	ND		0.00018
Trichlorofluoromethane	75-69-4	87	200	10000	ND		0.0012	ND		0.058	ND		0.00068	ND		0.00099	ND		0.066	ND		0.084	ND		0.48	ND		0.00083	ND		0.0015	ND		0.00089
Vinyl chloride	75-01-4	0.027	0.2	290	ND		0.0006	ND		0.028	ND		0.00033	ND		0.00048	ND		0.032	ND		0.041	ND		0.23	ND		0.0004	ND		0.00073	ND		0.00043
Xylenes, Total	1330-20-7	990	1000	9100	0.031		0.00052	0.34	J	0.024	ND		0.00028	ND		0.00042	0.86		0.028	0.27		0.035	1.5	J	0.2	0.011		0.00035	ND		0.00064	ND		0.00037
Target Compound List Volatile Organic Compounds (mg/kg) - EPA 5035 HIGH																																		
1,1,1-Trichloroethane	71-55-6	7.2	20	10000	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
1,1,2,2-Tetrachloroethane	79-34-5	0.13	0.43	44	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	10000	4400	10000	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
1,1,2-Trichloroethane	79-00-5	0.15	0.5	18	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
1,1-Dichloroethane	75-34-3	3.9	16	1600	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
1,1-Dichloroethene	75-35-4	0.19	0.7	10000	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
1,2,3-Trichlorobenzene	87-61-6	NA	NA	NA	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
1,2,4-Trichlorobenzene	120-82-1	27	7	190	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
1,2-Dibromo-3-chloropropane	96-12-8	0.0092	0.02	0.42	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
1,2-Dibromoethane	106-93-4	0.0012	0.005	4.2	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
1,2-Dichlorobenzene	95-50-1	59	60	10000	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
1,2-Dichloroethane	107-06-2	0.1	0.5	98	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
1,2-Dichloroethene, Total	540-59-0	NA	NA	NA	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
1,2-Dichloropropane	78-87-5	0.11	0.5	0.69	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
1,3-Dichlorobenzene	541-73-1	61	60	10000	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
1,3-Dichloropropene, Total	542-75-6	0.48	2.7	640	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
1,4-Dichlorobenzene	106-46-7	10	7.5	230	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
1,4-Dioxane	123-91-1	0.35	2.7	510	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
2-Butanone	78-93-3	76	400	10000	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
2-Hexanone	591-78-6	6.4	26	2700	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
4-Methyl-2-pentanone	108-10-1	120	780	10000	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Acetone	67-64-1	980	8800	10000	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Benzene	71-43-2	0.13	0.5	330	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Bromochloromethane	74-97-5	1.6	9	3600	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Bromodichloromethane	75-27-4	2.7	8	69	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Bromoform	75-25-2	3.5	8	2300	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Bromomethane	74-83-9	0.54	1	460	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Carbon disulfide	75-15-0	530	620	10000	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Carbon tetrachloride	56-23-5	0.26	0.5	430	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Chlorobenzene	108-90-7	6.1	10	4500	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Chloroethane	75-00-3	1900	8800	10000	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Chloroform	67-66-3	2	8	110	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Chloromethane	74-87-3	0.38	3	1400	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
cis-1,2-Dichloroethene	156-59-2	1.6	7	10000	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
cis-1,3-Dichloropropene	10061-01-5	0.61	3.4	640	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Cyclohexane	110-82-7	6900	5300	10000	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Dibromochloromethane	124-48-1	2.5	8	10000	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-

Table 3: Subsurface Soil Sampling Results - 2025
49th Street Terminal Site
1700 S 49th Street, Philadelphia, PA 19143

verdantas

Sample ID		PADEP SHS			DUP-03			MW-03B		
Lab Sample ID		Non-Residential			L2551270-05			L2551270-04		
Date Sampled		Soil to Groundwater Generic TDS≤2500	Soil to Groundwater 100X TDS≤2500	Subsurface Soil Direct Contact 2-15 feet	8/14/2025			8/14/2025		
Sample Depth					7.0 - 9.0 feet			5.0 - 7.0 feet		
	CAS Number				Result	Q	MDL	Result	Q	MDL
Target Compound List Volatile Organic Compounds (mg/kg) - EPA 5035										
1,1,1-Trichloroethane	71-55-6	7.2	20	10000	-		-	ND		0.00021
1,1,2,2-Tetrachloroethane	79-34-5	0.13	0.43	44	-		-	ND		0.00021
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	10000	4400	10000	-		-	ND		0.00088
1,1,2-Trichloroethane	79-00-5	0.15	0.5	18	-		-	ND		0.00034
1,1-Dichloroethane	75-34-3	3.9	16	1600	-		-	ND		0.00018
1,1-Dichloroethene	75-35-4	0.19	0.7	10000	-		-	ND		0.0003
1,2,3-Trichlorobenzene	87-61-6	NA	NA	NA	-		-	ND		0.00041
1,2,4-Trichlorobenzene	120-82-1	27	7	190	-		-	ND		0.00035
1,2-Dibromo-3-chloropropane	96-12-8	0.0092	0.02	0.42	-		-	ND		0.0013
1,2-Dibromoethane	106-93-4	0.0012	0.005	4.2	-		-	ND		0.00037
1,2-Dichlorobenzene	95-50-1	59	60	10000	-		-	ND		0.00018
1,2-Dichloroethane	107-06-2	0.1	0.5	98	-		-	ND		0.00033
1,2-Dichloroethene, Total	540-59-0	NA	NA	NA	-		-	ND		0.00017
1,2-Dichloropropane	78-87-5	0.11	0.5	0.69	-		-	ND		0.00016
1,3-Dichlorobenzene	541-73-1	61	60	10000	-		-	ND		0.00019
1,3-Dichloropropene, Total	542-75-6	0.48	2.7	640	-		-	ND		0.0002
1,4-Dichlorobenzene	106-46-7	10	7.5	230	-		-	ND		0.00022
1,4-Dioxane	123-91-1	0.35	2.7	510	-		-	ND		0.045
2-Butanone	78-93-3	76	400	10000	-		-	0.018		0.0028
2-Hexanone	591-78-6	6.4	26	2700	-		-	ND		0.0015
4-Methyl-2-pentanone	108-10-1	120	780	10000	-		-	ND		0.0016
Acetone	67-64-1	980	8800	10000	-		-	0.14		0.013
Benzene	71-43-2	0.13	0.5	330	-		-	0.0035		0.00021
Bromochloromethane	74-97-5	1.6	9	3600	-		-	ND		0.00026
Bromodichloromethane	75-27-4	2.7	8	69	-		-	ND		0.00014
Bromoform	75-25-2	3.5	8	2300	-		-	ND		0.00031
Bromomethane	74-83-9	0.54	1	460	-		-	ND		0.00074
Carbon disulfide	75-15-0	530	620	10000	-		-	ND		0.0058
Carbon tetrachloride	56-23-5	0.26	0.5	430	-		-	ND		0.00029
Chlorobenzene	108-90-7	6.1	10	4500	-		-	ND		0.00016
Chloroethane	75-00-3	1900	8800	10000	-		-	ND		0.00058
Chloroform	67-66-3	2	8	110	-		-	ND		0.00018
Chloromethane	74-87-3	0.38	3	1400	-		-	ND		0.0012
cis-1,2-Dichloroethene	156-59-2	1.6	7	10000	-		-	ND		0.00022
cis-1,3-Dichloropropene	10061-01-5	0.61	3.4	640	-		-	ND		0.0002
Cyclohexane	110-82-7	6900	5300	10000	-		-	0.016		0.00069
Dibromochloromethane	124-48-1	2.5	8	10000	-		-	ND		0.00018
Dichlorodifluoromethane	75-71-8	100	100	9100	-		-	ND		0.0012
Ethylbenzene	100-41-4	46	70	1000	-		-	ND		0.00018
Isopropylbenzene	98-82-8	2500	350	10000	-		-	3.9	E	0.00014
Methyl Acetate	79-20-9	1800	9700	10000	-		-	ND		0.0012
Methyl cyclohexane	108-87-2	NA	NA	NA	-		-	0.39	E	0.00077
Methyl tert butyl ether	1634-04-4	0.28	2	9800	-		-	ND		0.00026
Methylene chloride	75-09-2	0.076	0.5	10000	-		-	ND		0.0029
o-Xylene	95-47-6	990	1000	9100	-		-	0.025		0.00037
p/m-Xylene	179601-23-1	990	1000	9100	-		-	0.055		0.00071
Styrene	100-42-5	24	10	10000	-		-	ND		0.00025
Tetrachloroethene	127-18-4	0.43	0.5	3600	-		-	ND		0.00025
Toluene	108-88-3	44	100	10000	-		-	0.014		0.00069
trans-1,2-Dichloroethene	156-60-5	2.3	10	10000	-		-	ND		0.00017
trans-1,3-Dichloropropene	10061-02-6	0.61	3.4	640	-		-	ND		0.00035
Trichloroethene	79-01-6	0.17	0.5	180	-		-	ND		0.00017
Trichlorofluoromethane	75-69-4	87	200	10000	-		-	ND		0.00088
Vinyl chloride	75-01-4	0.027	0.2	290	-		-	ND		0.00043
Xylenes, Total	1330-20-7	990	1000	9100	-		-	0.08		0.00037
Target Compound List Volatile Organic Compounds (mg/kg) - EPA 5035 HIGH										
1,1,1-Trichloroethane	71-55-6	7.2	20	10000	ND		0.028	ND		0.023
1,1,2,2-Tetrachloroethane	79-34-5	0.13	0.43	44	ND		0.028	ND		0.022
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	10000	4400	10000	ND		0.12	ND		0.094
1,1,2-Trichloroethane	79-00-5	0.15	0.5	18	ND		0.045	ND		0.036
1,1-Dichloroethane	75-34-3	3.9	16	1600	ND		0.025	ND		0.02
1,1-Dichloroethene	75-35-4	0.19	0.7	10000	ND		0.04	ND		0.032
1,2,3-Trichlorobenzene	87-61-6	NA	NA	NA	ND		0.055	ND		0.044
1,2,4-Trichlorobenzene	120-82-1	27	7	190	ND		0.046	ND		0.037
1,2-Dibromo-3-chloropropane	96-12-8	0.0092	0.02	0.42	ND		0.17	ND		0.14
1,2-Dibromoethane	106-93-4	0.0012	0.005	4.2	ND		0.05	ND		0.04
1,2-Dichlorobenzene	95-50-1	59	60	10000	ND		0.024	ND		0.02
1,2-Dichloroethane	107-06-2	0.1	0.5	98	ND		0.044	ND		0.035
1,2-Dichloroethene, Total	540-59-0	NA	NA	NA	ND		0.023	ND		0.019
1,2-Dichloropropane	78-87-5	0.11	0.5	0.69	ND		0.021	ND		0.017
1,3-Dichlorobenzene	541-73-1	61	60	10000	ND		0.025	ND		0.02
1,3-Dichloropropene, Total	542-75-6	0.48	2.7	640	ND		0.027	ND		0.021
1,4-Dichlorobenzene	106-46-7	10	7.5	230	ND		0.029	ND		0.023
1,4-Dioxane	123-91-1	0.35	2.7	510	ND		6	ND		4.8
2-Butanone	78-93-3	76	400	10000	ND		0.38	0.41	J	0.3
2-Hexanone	591-78-6	6.4	26	2700	ND		0.2	ND		0.16
4-Methyl-2-pentanone	108-10-1	120	780	10000	ND		0.22	ND		0.17
Acetone	67-64-1	980	8800	10000	ND		0.82	ND		0.65
Benzene	71-43-2	0.13	0.5	330	ND		0.028	3		0.022
Bromochloromethane	74-97-5	1.6	9	3600	ND		0.035	ND		0.028
Bromodichloromethane	75-27-4	2.7	8	69	ND		0.018	ND		0.015
Bromoform	75-25-2	3.5	8	2300	ND		0.042	ND		0.033
Bromomethane	74-83-9	0.54	1	460	ND		0.099	ND		0.079
Carbon disulfide	75-15-0	530	620	10000	ND		0.77	ND		0.62
Carbon tetrachloride	56-23-5	0.26	0.5	430	ND		0.039	ND		0.031
Chlorobenzene	108-90-7	6.1	10	4500	ND		0.022	ND		0.017
Chloroethane	75-00-3	1900	8800	10000	ND		0.077	ND		0.061
Chloroform	67-66-3	2	8	110	ND		0.024	ND		0.019
Chloromethane	74-87-3	0.38	3	1400	ND		0.16	ND		0.13
cis-1,2-Dichloroethene	156-59-2	1.6	7	10000	ND		0.03	ND		0.024
cis-1,3-Dichloropropene	10061-01-5	0.61	3.4	640	ND		0.027	ND		0.021
Cyclohexane	110-82-7	6900	5300	10000	ND		0.092	0.22	J	0.074
Dibromochloromethane	124-48-1	2.5	8	10000	ND		0.024	ND		0.019

Table 3: Subsurface Soil Sampling Results - 2025
49th Street Terminal Site
1700 S 49th Street, Philadelphia, PA 19143

verdantas

Sample ID		PADEP SHS			SB-01B			SB-02B			DUP-01			DUP-01			SB-03B			SB-06B			SB-07B			SB-08B			SB-09B			SB-10B		
Lab Sample ID		Non-Residential			L2550677-02			L2550677-04			L2550677-09			L2550677-09 R1			L2550677-06			L2550677-12			L2550922-02			L2550677-14			L2550677-16			L2550922-08		
Date Sampled					8/12/2025			8/12/2025			8/12/2025			8/12/2025			8/12/2025			8/12/2025			8/13/2025			8/12/2025			8/12/2025			8/13/2025		
Sample Depth		Soil to Groundwater Generic TDS≤2500	Soil to Groundwater 100X TDS≤2500	Subsurface Soil Direct Contact 2-15 feet	6.0 - 8.0 feet			3.0 - 6.5 feet			8.0 - 10.0 feet			8.0 - 10.0 feet			5.5 - 7.5 feet			3.0 - 6.0 feet			5.0 - 6.5 feet			5.0 - 6.5 feet			5.0 - 6.75 feet			6.0 - 8.0 feet		
	CAS Number				Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
Dichlorodifluoromethane	75-71-8	100	100	9100	-		-	-		-	-		-	-		-	ND		0.06	-		-	-		-	-		-	-		-	ND		0.25
Ethylbenzene	100-41-4	46	70	1000	-		-	-		-	-		-	-		-	ND		0.0093	-		-	-		-	-		-	-		-	0.1	J	0.038
Isopropylbenzene	98-82-8	2500	350	10000	-		-	-		-	-		-	-		-	0.22		0.0072	-		-	-		-	-		-	-		-	2		0.029
Methyl Acetate	79-20-9	1800	9700	10000	-		-	-		-	-		-	-		-	0.36		0.063	-		-	-		-	-		-	-		-	1.5		0.26
Methyl cyclohexane	108-87-2	NA	NA	NA	-		-	-		-	-		-	-		-	0.058	J	0.04	-		-	-		-	-		-	-		-	1.2		0.16
Methyl tert butyl ether	1634-04-4	0.28	2	9800	-		-	-		-	-		-	-		-	ND		0.013	-		-	-		-	-		-	-		-	ND		0.054
Methylene chloride	75-09-2	0.076	0.5	10000	-		-	-		-	-		-	-		-	ND		0.15	-		-	-		-	-		-	-		-	ND		0.62
o-Xylene	95-47-6	990	1000	9100	-		-	-		-	-		-	-		-	ND		0.019	-		-	-		-	-		-	-		-	0.1	J	0.079
p/m-Xylene	179601-23-1	990	1000	9100	-		-	-		-	-		-	-		-	ND		0.037	-		-	-		-	-		-	-		-	0.32	J	0.15
Styrene	100-42-5	24	10	10000	-		-	-		-	-		-	-		-	ND		0.013	-		-	-		-	-		-	-		-	ND		0.053
Tetrachloroethene	127-18-4	0.43	0.5	3600	-		-	-		-	-		-	-		-	ND		0.013	-		-	-		-	-		-	-		-	ND		0.053
Toluene	108-88-3	44	100	10000	-		-	-		-	-		-	-		-	ND		0.036	-		-	-		-	-		-	-		-	0.17	J	0.15
trans-1,2-Dichloroethene	156-60-5	2.3	10	10000	-		-	-		-	-		-	-		-	ND		0.009	-		-	-		-	-		-	-		-	ND		0.037
trans-1,3-Dichloropropene	10061-02-6	0.61	3.4	640	-		-	-		-	-		-	-		-	ND		0.018	-		-	-		-	-		-	-		-	ND		0.074
Trichloroethene	79-01-6	0.17	0.5	180	-		-	-		-	-		-	-		-	ND		0.009	-		-	-		-	-		-	-		-	ND		0.037
Trichlorofluoromethane	75-69-4	87	200	10000	-		-	-		-	-		-	-		-	ND		0.046	-		-	-		-	-		-	-		-	ND		0.19
Vinyl chloride	75-01-4	0.027	0.2	290	-		-	-		-	-		-	-		-	ND		0.022	-		-	-		-	-		-	-		-	ND		0.091
Xylenes, Total	1330-20-7	990	1000	9100	-		-	-		-	-		-	-		-	ND		0.019	-		-	-		-	-		-	-		-	0.42	J	0.079
Target Compound List Semi-Volatile Organic Compounds (mg/kg) - EPA 8270D																																		
1,2,4,5-Tetrachlorobenzene	95-94-3	13	2.9	190000	ND		0.018	ND		0.24	ND		0.027	-		-	ND		0.02	ND		0.13	ND		0.026	ND		0.023	ND		0.018	ND		0.28
1,4-Dioxane	123-91-1	0.35	2.7	510	ND		0.0081	ND		0.1	ND		0.012	-		-	ND		0.0085	ND		0.057	ND		0.011	ND		0.01	ND		0.0079	ND		0.12
2,3,4,6-Tetrachlorophenol	58-90-2	4500	290	190000	ND		0.036	ND		0.47	ND		0.052	-		-	ND		0.038	ND		0.25	ND		0.05	ND		0.045	ND		0.035	ND		0.55
2,4,5-Trichlorophenol	95-95-4	5900	970	190000	ND		0.034	ND		0.44	ND		0.049	-		-	ND		0.036	ND		0.24	ND		0.048	ND		0.042	ND		0.033	ND		0.52
2,4,6-Trichlorophenol	88-06-2	28	9.7	190000	ND		0.034	ND		0.44	ND		0.049	-		-	ND		0.035	ND		0.24	ND		0.047	ND		0.042	ND		0.033	ND		0.52
2,4-Dichlorophenol	120-83-2	1	2	190000	ND		0.028	ND		0.37	ND		0.042	-		-	ND		0.03	ND		0.2	ND		0.04	ND		0.036	ND		0.028	ND		0.44
2,4-Dimethylphenol	105-67-9	83	190	10000	ND		0.058	ND		0.77	ND		0.085	-		-	ND		0.062	ND		0.41	ND		0.082	ND		0.073	ND		0.057	ND		0.9
2,4-Dinitrophenol	51-28-5	2.1	19	190000	ND		0.082	ND		1.1	ND		0.12	-		-	ND		0.087	ND		0.58	ND		0.12	ND		0.1	ND		0.081	ND		1.3
2,4-Dinitrotoluene	121-14-2	0.21	0.88	190000	ND		0.035	ND		0.46	ND		0.052	-		-	ND		0.037	ND		0.25	ND		0.05	ND		0.044	ND		0.035	ND		0.54
2,6-Dinitrotoluene	606-20-2	0.053	0.18	190000	ND		0.03	ND		0.4	ND		0.044	-		-	ND		0.032	ND		0.22	ND		0.043	ND		0.038	ND		0.03	ND		0.47
2-Chloronaphthalene	91-58-7	17000	780	190000	ND		0.018	ND		0.23	ND		0.026	-		-	ND		0.018	ND		0.12	ND		0.025	ND		0.022	ND		0.017	ND		0.27
2-Chlorophenol	95-57-8	4.4	4	10000	ND		0.021	ND		0.27	ND		0.03	-		-	ND		0.022	ND		0.15	ND		0.029	ND		0.026	ND		0.02	ND		0.32
2-Methylnaphthalene	91-57-6	100	2.6	270	ND		0.021	ND		0.28	0.88		0.031	-		-	0.24		0.022	25		0.15	0.1	J	0.03	ND		0.027	0.29		0.021	ND		0.33
2-Methylphenol	95-48-7	81	490	190000	ND		0.027	ND		0.36	0.12	J	0.04	-		-	0.04	J	0.029	ND		0.19	ND		0.039	ND		0.034	ND		0.027	ND		0.42
2-Nitroaniline	88-74-4	0.0079	0.044	4.5	ND		0.034	ND		0.45	ND		0.05	-		-	ND		0.036	ND		0.24	ND		0.048	ND		0.043	ND		0.033	ND		0.52
2-Nitrophenol	88-75-5	16	78	190000	ND		0.066	ND		0.87	ND		0.097	-		-	ND		0.07	ND		0.47	ND		0.094	ND		0.083	ND		0.065	ND		1
3,3'-Dichlorobenzidine	91-94-1	33	0.6	190000	ND		0.047	ND		0.62	ND		0.069	-		-	ND		0.05	ND		0.33	ND		0.066	ND		0.059	ND		0.046	ND		0.72
3-Methylphenol/4-Methylphenol	108-39-4/106-44-5	11	49	10000	ND		0.028	ND		0.36	0.43		0.04	-		-	0.12	J	0.029	ND		0.2	ND		0.039	ND		0.035	ND		0.027	ND		0.42
3-Nitroaniline	99-09-2	NA	NA	NA	ND		0.033	ND		0.44	ND		0.049	-		-	ND		0.035	ND		0.24	ND		0.047	ND		0.042	ND		0.033	ND		0.51
4,6-Dinitro-o-cresol	534-52-1	NA	NA	NA	ND		0.085	ND		1.1	ND		0.12	-		-	ND		0.09	ND		0.6	ND		0.12	ND		0.11	ND		0.083	ND		1.3
4-Bromophenyl phenyl ether	101-55-3	NA	NA	NA	ND		0.027	ND		0.35	ND		0.039	-		-	ND		0.028	ND		0.19	ND		0.038	ND		0.034	ND		0.026	ND		0.41
4-Chloroaniline	106-47-8	1.8	1.4	190000	ND		0.032	ND		0.42	ND		0.047	-		-	ND		0.034	ND		0.23	ND		0.045	ND		0.04	ND		0.032	ND		0.49
4-Chlorophenyl phenyl ether	7005-72-3	NA	NA	NA	ND		0.019	ND		0.25	ND		0.028	-		-	ND		0.02	ND		0.13	ND		0.027	ND		0.024	ND		0.018	ND		0.29
4-Nitroaniline	100-01-6	2.1	14	190000	ND		0.073	ND		0.96	ND		0.11	-		-	ND		0.077	ND		0.52	ND		0.1	ND		0.092	ND		0.072	ND		1.1
4-Nitrophenol	100-02-7	4.1	6	190000	ND		0.072	ND		0.95	ND		0.1	-		-	ND		0.076	ND		0.51	ND		0.1	ND		0.09	ND		0.071	ND		1.1
Acenaphthene	83-32-9	4700	380	190000	0.15		0.018	2		0.24	1.4		0.027	-		-	0.7		0.019	2.2		0.13	0.092	J	0.026	ND		0.023	0.06	J	0.018	3.4		0.28
Acenaphthylene	208-96-8	6600	580	190000	ND		0.027	ND		0.36	2.2		0.04	-		-	0.66		0.029	ND		0.19	ND		0.038	ND		0.034	0.066	J	0.027	ND		0.42
Acetophenone	98-86-2	520	970	10000	ND		0.022	ND		0.29	ND		0.032	-		-	ND		0.023	ND		0.16	ND		0.031	ND		0.027	ND		0.022	ND		0.34
Anthracene	120-12-7	350	6.6	190000	0.081	J	0.034	0.94	J	0.45	6.8		0.05	-		-	1.7		0.036	1.6		0.24	0.11	J	0.049	ND		0.043	0.18		0.034	1.8		0.53
Atrazine	1912-24-9	0.13	0.3	190000	ND		0.062	ND		0.81	ND		0.09	-		-	ND		0.065	ND		0.44	ND		0.087	ND		0.078	ND		0.061	ND		0.95
Benzaldehyde	100-52-7	NA	NA	NA	ND		0.048	ND		0.63	ND		0.07	-		-	ND		0.05	ND		0.34	ND		0.067	ND		0.06	ND		0.047	ND		0.73
Benzo(a)anthracene	56-55-3	340	0.39	190000	0.07	J	0.02	ND		0.26	23	E	0.029	32		0.29	4.9		0.021	0.88		0.14	0.3		0.028	0.039	J	0.025	0.66		0.02	0.92	J	0.3
Benzo(a)pyrene	50-32-8	46	0.02	190000	0.072	J	0.043	ND		0.57	18	E	0.063	24		0.63	4.8		0.046	0.81	J	0.3	0.31		0.061	ND		0.054	0.7		0.042	0.68	J	0.66
Benzo(b)fluoranthene	205-99-2	170	0.12	190000	0.098	J	0.03	ND		0.39	24	E	0.043	28		0.43	5.6		0.031	1.1		0.21	0.38		0.042	0.044	J	0.037	0.83		0.029	0.9	J	0.46
Benzo(ghi)perylene	191-24-2	180	0.026	190000	0.049	J	0.021	ND		0.27	7.1		0.03	-		-	2		0.022	0.54	J	0.15	0.18	J	0.029	ND		0.026	0.46		0.02	0.4	J	0.32
Benzo(k)fluoranthene	207-08-9	610	0.055	190000	ND		0.028	ND		0.37	3.6		0.041	-		-	1.5		0.03	0.34	J	0.2	0.14	J	0.04	ND		0.036	0.22		0.028	ND		0.43
Biphenyl	92-52-4	1.5	0.35	40	ND		0.023	ND		0.3	0.14	J	0.034	-		-	ND		0.024	0.91	J	0.16	ND		0.032	ND		0.029	0.03	J	0.022	ND		0.35
Bis(2-chloroethoxy)methane	111-91-1	7.6	29	10000	ND		0.018	ND		0.23	ND		0.026	-		-	ND		0.019	ND		0.12	ND		0.025	ND		0.022	ND		0.017	ND		0.27
Bis(2-chloroethyl)ether	111-44-4	0.023	0.076	7.6	ND		0.013	ND		0.17	ND		0.019	-		-	ND		0.014	ND		0.093	ND		0.018	ND		0.016	ND		0.013	ND		0.2
Bis(2-chloroisopropyl)ether	108-60-1	8	30	250	ND		0.03	ND		0.4	ND		0.044	-		-	ND		0.032	ND		0.21	ND		0.043	ND		0.038	ND		0.03	ND		0.46
Bis(2-ethylhexyl)phthalate	117-81-7	130	0.6	10000	ND		0.061	ND		0.8	ND		0.089	-		-	ND		0.065	ND		0.43	ND		0.086	ND		0.077	ND		0.06	ND		0.94
Butyl benzyl phthalate	85-68-7	10000	140	10000	ND		0.044	ND		0.58	ND		0.065	-		-	ND		0.047	ND		0.32	ND		0.063	ND		0.056	ND		0.044	ND		0.68
Caprolactam	105-60-2	NA	NA	NA	ND		0.054	ND		0.71	ND		0.078	-		-	ND		0.057	ND		0.38	ND		0.076	ND		0.067	ND		0.053	ND		0.82
Carbazole	86-74-8	89	14	190000	ND		0.017	ND		0.22	0.29		0.025	-		-	ND		0.018	ND		0.12	ND		0.024	ND		0.022	0.062	J	0.017	ND		0.26
Chrysene	218-01-9	230	0.19	190000	0.069	J	0.018	ND		0.24	14	E	0.027	25		0.27	4.1		0.019	1.4		0.13	0.28		0.026	0.035	J	0.023	0.72		0.018	0.92	J	0.28
Di-n-butylphthalate	84-74-2	4000	970	10000	ND		0.034	ND		0.44	ND		0.049	-		-	ND		0.035	ND		0.24	ND		0.047	ND		0.042	ND		0.033	ND		0.52
Di-n-octylphthalate	117-84-0	10000	97	10000	ND		0.06	ND		0.79	ND		0.088	-		-	ND		0.064	ND		0.43	ND		0.085	ND		0.075	ND		0.059	ND		0.92
Dibenzo(a,h)anthracene	53-70-3	270	0.06	190000	ND		0.02	ND		0.27	2.4		0.03	-		-	0.74		0.022	0.16	J	0.14	0.041	J	0.029	ND		0.026	0.12		0.02	ND		0.31
Dibenzofuran	132-64-9	250	9.7	190000	0.09	J	0.017	ND		0.22	0.77		0.024	-		-	0.57		0.018	3.2		0.12	ND		0.024	ND		0.021	0.067	J	0.016	0.72	J	0.26
Diethyl phthalate	84-66-2	2400	7800	10000	ND		0.016	ND		0.22	ND		0.024	-		-	ND		0.017	ND		0.12	ND		0.023	ND		0.02	ND		0.016	ND		0.25
Dimethyl phthalate	131-11-3	NA	NA	NA	ND		0.037	ND		0.49	ND		0.054	-		-	ND		0.039	ND		0.26	ND		0.052	ND		0.047	ND		0.036	ND		0.57
Fluoranthene	206-44-0	3200	26	190000	0.15		0.02	0.73	J	0.27	18	E	0.03	44		0.3	6.5		0.021	1.8		0.14	0.44		0.029	0.05	J	0.025	0.95		0.02	2.4		0.31
Fluorene	86-73-7	3800	190	190000	0.26		0.017	3.6		0.22	2.1		0.025	-		-	1.4		0.018	5.2		0.12	0.12	J	0.024	ND		0.022	0.08	J	0.017	7.7		0.26
Hexachlorobenzene	118-74-1	0.96	0.1	190000	ND		0.02	ND		0.26	ND		0.029	-		-	ND		0.021	ND		0.14	ND		0.028	ND		0.025	ND		0.019	ND		0.3
Hexachlorobutadiene	87-68-3	42	3.5	10000	ND		0.026	ND		0.34	ND		0.038	-		-	ND		0.027	ND		0.18	ND		0.036	ND		0.032	ND		0.025	ND		0.4
Hexachlorocyclopentadiene	77-47-4	91	5	10000	ND		0.16	ND		2.1	ND		0.23	-		-	ND		0.17	ND		1.1	ND		0.23	ND		0.2	ND		0.16	ND		2.5
Hexachloroethane	67-72-1	0.56	0.1	270	ND		0.029	ND		0.38	ND		0.042	-		-	ND		0.03	ND		0.2	ND		0.04	ND		0.036	ND		0.028	ND		0.44
Indeno(1,2,3-cd)pyrene	193-39-5	18000	0.23	190000	0.051	J	0.025	ND		0.32	9.1		0.036	-		-	2.6		0.026	0.53	J	0.17	0.18	J	0.035	ND		0.031	0.45		0.024	0.4	J	0.38
Isophorone	78-59-1	1.9	10	10000	ND		0.023	ND		0.3	ND		0.034	-		-	ND		0.024	ND		0.16	ND		0.032	ND		0.029	ND		0.022	ND		0.35
n-Nitrosodi-n-propylamine	621-64-7	0.0018	0.013	1.3	ND		0.017	ND		0.22	ND		0.025	-		-	ND		0.018	ND		0.12	ND		0.024	ND		0.021	ND		0.017	ND		0.26
Naphthalene	91-20-3	25	10	77	0.12		0.022	1.2		0.28	3.4		0.031	-		-	1		0.023	12		0.15	0.056		0.03	ND		0.027	0.15		0.021	1.2		0.33
NDPA/DPA	86-30-6	15	9.6	990	ND		0.02	ND		0.26	ND		0.029	-		-	ND		0.021	ND		0.14	ND		0.028	ND		0.025	ND		0.02	ND		0.31
Nitrobenzene	98-95-3	0.27	0.63	63	ND		0.026	ND		0.34	ND		0.038	-		-	ND		0.028	ND		0.18	ND		0.037	ND		0.033	ND		0.026	ND		0.4
p-Chloro-m-cresol	59-50-7	2000	970	190000	ND		0.026	ND		0.35	ND		0.038	-		-	ND		0.028	ND		0.19	ND		0.037	ND		0.033	ND		0.026	ND		0.4
Pentachlorophenol	87-86-5	5	0.1	190000	ND		0.039	ND		0.51	ND		0.057	-		-	ND		0.041	ND		0.28	ND		0.055	ND		0.049	ND		0.038	ND		0.6
Phenanthrene	85-01-8	10000	110	190000	0.1	J	0.022	3.9		0.28	8.2		0.031	-		-	3.5		0.023	8		0.15	0.21		0.03	ND		0.027	0.6		0.021	0.78	J	0.33
Phenol	108-95-2	33	200	18000	ND		0.027	ND		0.35	0.36		0.039	-		-	0.11	J	0.028	ND		0.19	ND		0.038	ND		0.034	ND		0.026	ND		0.41
Pyrene	129-00-0	2200	13	190000	0.15		0.018	0.76	J	0.23	17	E	0.026	36		0.26	5.3		0.018	2		0.12	0.4		0.025	0.043	J	0.022	1.1		0.017	2.3		0.27

Table 3: Subsurface Soil Sampling Results - 2025
49th Street Terminal Site
1700 S 49th Street, Philadelphia, PA 19143

verdantas

Sample ID		PADEP SHS			SB-11B			SB-12B			SB-13B			DUP-02			SB-14B			SB-15B			SB-16B			MW-01B			MW-02B			MW-02B		
Lab Sample ID		Non-Residential			L2550922-11			L2550922-13			L2550922-16			L2550922-17			L2550922-19			L2550922-21			L2550922-23			L2550922-05			L2551270-02			L2551270-02 R1		
Date Sampled					8/13/2025			8/13/2025			8/13/2025			8/13/2025			8/13/2025			8/13/2025			8/13/2025			8/13/2025			8/14/2025			8/14/2025		
Sample Depth		Soil to Groundwater Generic TDS≤2500	Soil to Groundwater 100X TDS≤2500	Subsurface Soil Direct Contact 2-15 feet	5.5 - 7.0 feet			5.0 - 6.5 feet			7.0 - 8.5 feet			5.0 - 7.0 feet			6.0 - 8.0 feet			6.0 - 7.0 feet			6.0 - 8.0 feet			5.0 - 6.5 feet			5.0 - 7.0 feet			5.0 - 7.0 feet		
	CAS Number				Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
Dichlorodifluoromethane	75-71-8	100	100	9100	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Ethylbenzene	100-41-4	46	70	1000	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Isopropylbenzene	98-82-8	2500	350	10000	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Methyl Acetate	79-20-9	1800	9700	10000	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Methyl cyclohexane	108-87-2	NA	NA	NA	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Methyl tert butyl ether	1634-04-4	0.28	2	9800	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Methylene chloride	75-09-2	0.076	0.5	10000	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
o-Xylene	95-47-6	990	1000	9100	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
p/m-Xylene	179601-23-1	990	1000	9100	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Styrene	100-42-5	24	10	10000	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Tetrachloroethene	127-18-4	0.43	0.5	3600	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Toluene	108-88-3	44	100	10000	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
trans-1,2-Dichloroethene	156-60-5	2.3	10	10000	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
trans-1,3-Dichloropropene	10061-02-6	0.61	3.4	640	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Trichloroethene	79-01-6	0.17	0.5	180	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Trichlorofluoromethane	75-69-4	87	200	10000	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Vinyl chloride	75-01-4	0.027	0.2	290	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Xylenes, Total	1330-20-7	990	1000	9100	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-
Target Compound List Semi-Volatile Organic Compounds (mg/kg) - EPA 8270D																																		
1,2,4,5-Tetrachlorobenzene	95-94-3	13	2.9	190000	ND		0.023	ND		0.11	ND		0.02	ND		0.021	ND		0.022	ND		0.076	ND		0.4	ND		0.11	ND		0.019	-		-
1,4-Dioxane	123-91-1	0.35	2.7	510	ND		0.01	ND		0.049	ND		0.0088	ND		0.009	ND		0.0098	ND		0.033	ND		0.18	ND		0.048	ND		0.0083	-		-
2,3,4,6-Tetrachlorophenol	58-90-2	4500	290	190000	ND		0.044	ND		0.22	ND		0.039	ND		0.04	ND		0.044	ND		0.15	ND		0.78	ND		0.21	ND		0.037	-		-
2,4,5-Trichlorophenol	95-95-4	5900	970	190000	ND		0.042	ND		0.21	ND		0.037	ND		0.038	ND		0.041	ND		0.14	ND		0.74	ND		0.2	ND		0.035	-		-
2,4,6-Trichlorophenol	88-06-2	28	9.7	190000	ND		0.042	ND		0.2	ND		0.036	ND		0.038	ND		0.041	ND		0.14	ND		0.73	ND		0.2	ND		0.034	-		-
2,4-Dichlorophenol	120-83-2	1	2	190000	ND		0.035	ND		0.17	ND		0.031	ND		0.032	ND		0.035	ND		0.12	ND		0.62	ND		0.17	ND		0.029	-		-
2,4-Dimethylphenol	105-67-9	83	190	10000	ND		0.072	ND		0.35	ND		0.063	ND		0.066	ND		0.071	ND		0.24	ND		1.3	ND		0.35	ND		0.06	-		-
2,4-Dinitrophenol	51-28-5	2.1	19	190000	ND		0.1	ND		0.5	ND		0.089	ND		0.092	ND		0.1	ND		0.34	ND		1.8	ND		0.49	ND		0.085	-		-
2,4-Dinitrotoluene	121-14-2	0.21	0.88	190000	ND		0.044	ND		0.22	ND		0.038	ND		0.04	ND		0.043	ND		0.14	ND		0.77	ND		0.21	ND		0.036	-		-
2,6-Dinitrotoluene	606-20-2	0.053	0.18	190000	ND		0.038	ND		0.18	ND		0.033	ND		0.034	ND		0.037	ND		0.12	ND		0.66	ND		0.18	ND		0.031	-		-
2-Chloronaphthalene	91-58-7	17000	780	190000	ND		0.022	ND		0.11	ND		0.019	ND		0.02	ND		0.021	ND		0.072	ND		0.38	ND		0.1	ND		0.018	-		-
2-Chlorophenol	95-57-8	4.4	4	10000	ND		0.026	ND		0.13	ND		0.023	ND		0.023	ND		0.026	ND		0.086	ND		0.46	ND		0.12	ND		0.022	-		-
2-Methylnaphthalene	91-57-6	100	2.6	270	ND		0.026	1.7		0.13	ND		0.023	0.97		0.024	0.58		0.026	1.2		0.088	1.1	J	0.47	ND		0.13	0.26		0.022	-		-
2-Methylphenol	95-48-7	81	490	190000	ND		0.034	ND		0.17	ND		0.03	ND		0.031	ND		0.033	ND		0.11	ND		0.6	ND		0.16	ND		0.028	-		-
2-Nitroaniline	88-74-4	0.0079	0.044	4.5	ND		0.042	ND		0.21	ND		0.037	ND		0.038	ND		0.042	ND		0.14	ND		0.74	ND		0.2	ND		0.035	-		-
2-Nitrophenol	88-75-5	16	78	190000	ND		0.083	ND		0.4	ND		0.072	ND		0.075	ND		0.081	ND		0.27	ND		1.4	ND		0.4	ND		0.068	-		-
3,3'-Dichlorobenzidine	91-94-1	33	0.6	190000	ND		0.058	ND		0.29	ND		0.051	ND		0.053	ND		0.057	ND		0.19	ND		1	ND		0.28	ND		0.048	-		-
3-Methylphenol/4-Methylphenol	108-39-4/106-44-5	11	49	10000	ND		0.034	ND		0.17	ND		0.03	ND		0.031	0.36		0.034	1.3		0.11	ND		0.6	ND		0.16	ND		0.028	-		-
3-Nitroaniline	99-09-2	NA	NA	NA	ND		0.041	ND		0.2	ND		0.036	ND		0.037	ND		0.041	ND		0.14	ND		0.73	ND		0.2	ND		0.034	-		-
4,6-Dinitro-o-cresol	534-52-1	NA	NA	NA	ND		0.1	ND		0.52	ND		0.092	ND		0.095	ND		0.1	ND		0.35	ND		1.8	ND		0.5	ND		0.087	-		-
4-Bromophenyl phenyl ether	101-55-3	NA	NA	NA	ND		0.034	ND		0.16	ND		0.029	ND		0.03	ND		0.033	ND		0.11	ND		0.59	ND		0.16	ND		0.028	-		-
4-Chloroaniline	106-47-8	1.8	1.4	190000	ND		0.04	ND		0.2	ND		0.035	ND		0.036	ND		0.039	ND		0.13	ND		0.7	ND		0.19	ND		0.033	-		-
4-Chlorophenyl phenyl ether	7005-72-3	NA	NA	NA	ND		0.024	ND		0.12	ND		0.02	ND		0.021	ND		0.023	ND		0.078	ND		0.41	ND		0.11	ND		0.019	-		-
4-Nitroaniline	100-01-6	2.1	14	190000	ND		0.091	ND		0.44	ND		0.079	ND		0.082	ND		0.089	ND		0.3	ND		1.6	ND		0.44	ND		0.075	-		-
4-Nitrophenol	100-02-7	4.1	6	190000	ND		0.09	ND		0.44	ND		0.078	ND		0.081	ND		0.088	ND		0.3	ND		1.6	ND		0.43	ND		0.074	-		-
Acenaphthene	83-32-9	4700	380	190000	0.25		0.023	1.4		0.11	0.022	J	0.02	0.027	J	0.02	0.17		0.022	0.72		0.075	3.4		0.4	0.44	J	0.11	ND		0.019	-		-
Acenaphthylene	208-96-8	6600	580	190000	ND		0.034	ND		0.17	ND		0.03	0.1	J	0.031	0.35		0.033	3.1		0.11	2.1	J	0.6	ND		0.16	0.045	J	0.028	-		-
Acetophenone	98-86-2	520	970	10000	ND		0.027	ND		0.13	ND		0.024	ND		0.024	ND		0.027	0.12	J	0.09	ND		0.48	ND		0.13	ND		0.022	-		-
Anthracene	120-12-7	350	6.6	190000	0.16		0.043	1.1		0.21	ND		0.037	0.13		0.039	0.48		0.042	2.4		0.14	7.4		0.75	0.45	J	0.2	0.054	J	0.035	-		-
Atrazine	1912-24-9	0.13	0.3	190000	ND		0.077	ND		0.38	ND		0.067	ND		0.069	ND		0.076	ND		0.25	ND		1.4	ND		0.37	ND		0.064	-		-
Benzaldehyde	100-52-7	NA	NA	NA	ND		0.059	ND		0.29	ND		0.052	ND		0.054	ND		0.058	ND		0.2	ND		1	ND		0.28	0.2	J	0.049	-		-
Benzo(a)anthracene	56-55-3	340	0.39	190000	0.075	J	0.025	0.54	J	0.12	ND		0.022	0.35		0.022	2.3		0.024	12		0.082	7.7		0.44	0.54	J	0.12	0.1	J	0.02	-		-
Benzo(a)pyrene	50-32-8	46	0.02	190000	ND		0.054	0.45	J	0.26	ND		0.047	0.4		0.048	2		0.053	12		0.18	7.4		0.94	0.36	J	0.26	0.099	J	0.044	-		-
Benzo(b)fluoranthene	205-99-2	170	0.12	190000	0.072	J	0.037	0.58	J	0.18	ND		0.032	0.58		0.033	2.5		0.036	13		0.12	7.6		0.65	0.42	J	0.18	0.16		0.031	-		-
Benzo(ghi)perylene	191-24-2	180	0.026	190000	0.029	J	0.026	0.37	J	0.13	ND		0.022	0.34		0.023	0.99		0.025	6.6		0.086	5.2		0.45	0.15	J	0.12	0.18		0.021	-		-
Benzo(k)fluoranthene	207-08-9	610	0.055	190000	ND		0.035	0.19	J	0.17	ND		0.031	0.15		0.032	0.79		0.034	4.8		0.12	2.6		0.62	ND		0.17	0.037	J	0.029	-		-
Biphenyl	92-52-4	1.5	0.35	40	ND		0.028	ND		0.14	ND		0.025	0.12	J	0.026	0.13	J	0.028	0.31	J	0.095	ND		0.5	ND		0.14	ND		0.024	-		-
Bis(2-chloroethoxy)methane	111-91-1	7.6	29	10000	ND		0.022	ND		0.11	ND		0.019	ND		0.02	ND		0.022	ND		0.073	ND		0.39	ND		0.1	ND		0.018	-		-
Bis(2-chloroethyl)ether	111-44-4	0.023	0.076	7.6	ND		0.016	ND		0.08	ND		0.014	ND		0.015	ND		0.016	ND		0.054	ND		0.29	ND		0.078	ND		0.013	-		-
Bis(2-chloroisopropyl)ether	108-60-1	8	30	250	ND		0.038	ND		0.18	ND		0.033	ND		0.034	ND		0.037	ND		0.12	ND		0.66	ND		0.18	ND		0.031	-		-
Bis(2-ethylhexyl)phthalate	117-81-7	130	0.6	10000	ND		0.076	ND		0.37	ND		0.066	ND		0.069	ND		0.075	ND		0.25	ND		1.3	ND		0.36	ND		0.063	-		-
Butyl benzyl phthalate	85-68-7	10000	140	10000	ND		0.055	ND		0.27	ND		0.048	ND		0.05	ND		0.054	ND		0.18	ND		0.97	ND		0.26	ND		0.046	-		-
Caprolactam	105-60-2	NA	NA	NA	ND		0.067	ND		0.33	ND		0.058	ND		0.06	ND		0.066	ND		0.22	ND		1.2	ND		0.32	ND		0.055	-		-
Carbazole	86-74-8	89	14	190000	ND		0.021	ND		0.1	ND		0.019	0.048	J	0.019	0.084	J	0.021	0.27	J	0.071	1.5	J	0.38	ND		0.1	ND		0.018	-		-
Chrysene	218-01-9	230	0.19	190000	0.07	J	0.023	0.58	J	0.11	ND		0.02	0.39		0.021	2		0.022	12		0.076	6.8		0.4	0.4	J	0.11	0.12		0.019	-		-
Di-n-butylphthalate	84-74-2	4000	970	10000	ND		0.042	ND		0.2	ND		0.036	ND		0.038	ND		0.041	ND		0.14	ND		0.73	ND		0.2	ND		0.034	-		-
Di-n-octylphthalate	117-84-0	10000	97	10000	ND		0.075	ND		0.36	ND		0.065	ND		0.067	ND		0.073	ND		0.25	ND		1.3	ND		0.36	ND		0.062	-		-
Dibenzo(a,h)anthracene	53-70-3	270	0.06	190000	ND		0.025	ND		0.12	ND		0.022	0.079	J	0.023	0.3		0.025	1.7		0.084	1	J	0.45	ND		0.12	0.021	J	0.021	-		-
Dibenzofuran	132-64-9	250	9.7	190000	ND		0.021	ND		0.1	ND		0.018	0.12	J	0.019	0.23		0.02	0.73		0.069	4.4		0.36	ND		0.1	0.15	J	0.017	-		-
Diethyl phthalate	84-66-2	2400	7800	10000	ND		0.02	ND		0.1	ND		0.018	ND		0.018	ND		0.02	ND		0.067	ND		0.36	ND		0.098	ND		0.017	-		-
Dimethyl phthalate	131-11-3	NA	NA	NA	ND		0.046	ND		0.22	ND		0.04	ND		0.042	ND		0.045	ND		0.15	ND		0.81	ND		0.22	ND		0.038	-		-
Fluoranthene	206-44-0	3200	26	190000	0.19		0.025	1.4		0.12	ND		0.022	0.56		0.023	2.6		0.025	18		0.084	18		0.44	1		0.12	0.19		0.021	-		-
Fluorene	86-73-7	3800	190	190000	0.43		0.021	2.7		0.1	0.04	J	0.019	0.051	J	0.019	0.22		0.021	1.2		0.071	7.4		0.38	0.82	J	0.1	0.039	J	0.018	-		-
Hexachlorobenzene	118-74-1	0.96	0.1	190000	ND		0.025	ND		0.12	ND		0.022	ND		0.022	ND		0.024	ND		0.082	ND		0.43	ND		0.12	ND		0.02	-		-
Hexachlorobutadiene	87-68-3	42	3.5	10000	ND		0.032	ND		0.16	ND		0.028	ND		0.029	ND		0.032	ND		0.11	ND		0.57	ND		0.15	ND		0.027	-		-
Hexachlorocyclopentadiene	77-47-4	91	5	10000	ND		0.2	ND		0.97	ND		0.17	ND		0.18	ND		0.2	ND		0.66	ND		3.5	ND		0.95	ND		0.16	-		-
Hexachloroethane	67-72-1	0.56	0.1	270	ND		0.036	ND		0.17	ND		0.031	ND		0.032	ND		0.035	ND		0.12	ND		0.62	ND		0.17	ND		0.029	-		-
Indeno(1,2,3-cd)pyrene	193-39-5	18000	0.23	190000	ND		0.031	0.33	J	0.15	ND		0.027	0.32		0.028	1.1		0.03	7		0.1	4.8		0.54	0.16	J	0.15	0.14		0.025	-		-
Isophorone	78-59-1	1.9	10	10000	ND		0.028	ND		0.14	ND		0.025	ND		0.026	ND		0.028	ND		0.094	ND		0.5	ND		0.14	ND		0.024	-		-
n-Nitrosodi-n-propylamine	621-64-7	0.0018	0.013	1.3	ND		0.021	ND		0.1	ND		0.018	ND		0.019	ND		0.021	ND		0.07	ND		0.37	ND		0.1	ND		0.017	-		-
Naphthalene	91-20-3	25	10	77	0.029	J	0.027	1.3		0.13	ND		0.023	0.54		0.024	2.2		0.026	3.8		0.089	3.8		0.47	0.22		0.13	0.18		0.022	-		-
NDPA/DPA	86-30-6	15	9.6	990	ND		0.025	ND		0.12	ND		0.022	ND		0.022	ND		0.024	ND		0.083	ND		0.44	ND		0.12	ND		0.021	-		-
Nitrobenzene	98-95-3	0.27	0.63	63	ND		0.032	ND		0.16	ND		0.028	ND		0.029	ND		0.032	ND		0.11	ND		0.57	ND		0.16	ND		0.027	-		-
p-Chloro-m-cresol	59-50-7	2000	970	190000	ND		0.033	ND		0.16	ND		0.029	ND		0.03	ND		0.032	ND		0.11	ND		0.58	ND		0.16	ND		0.027	-		-
Pentachlorophenol	87-86-5	5	0.1	190000	ND		0.048	ND		0.24	ND		0.042	ND		0.044	ND		0.047	ND		0.16	ND		0.85	ND		0.23	ND		0.04	-		-
Phenanthrene	85-01-8	10000	110	190000	ND		0.027	0.85		0.13	ND		0.023	0.44		0.024	1		0.026	2.1		0.088	23		0.47	1.5		0.13	0.25		0.022	-		-
Phenol	108-95-2	33	200	18000	ND		0.033	ND		0.16	ND		0.029	ND		0.03	0.053	J	0.032	0.25	J	0.11	ND		0.58	ND		0.16	ND		0.027	-		-
Pyrene	129-00-0	2200	13	190000	0.17		0.022	1.6		0.11	ND		0.019	0.49		0.02	2.2		0.021	16		0.072	16		0.38	0.87		0.1	0.15		0.018	-		-

Table 3: Subsurface Soil Sampling Results - 2025
49th Street Terminal Site
1700 S 49th Street, Philadelphia, PA 19143

verdantas

Sample ID		PADEP SHS			DUP-03			MW-03B		
Lab Sample ID		Non-Residential			L2551270-05			L2551270-04		
Date Sampled					8/14/2025			8/14/2025		
Sample Depth		Soil to Groundwater Generic TDS≤2500	Soil to Groundwater 100X TDS≤2500	Subsurface Soil Direct Contact 2-15 feet	7.0 - 9.0 feet			5.0 - 7.0 feet		
	CAS Number				Result	Q	MDL	Result	Q	MDL
Dichlorodifluoromethane	75-71-8	100	100	9100	ND		0.16	ND		0.12
Ethylbenzene	100-41-4	46	70	1000	ND		0.024	1.6		0.019
Isopropylbenzene	98-82-8	2500	350	10000	ND		0.018	0.74		0.015
Methyl Acetate	79-20-9	1800	9700	10000	0.45	J	0.16	0.63		0.13
Methyl cyclohexane	108-87-2	NA	NA	NA	0.39	J	0.1	1		0.082
Methyl tert butyl ether	1634-04-4	0.28	2	9800	ND		0.034	ND		0.027
Methylene chloride	75-09-2	0.076	0.5	10000	ND		0.39	ND		0.31
o-Xylene	95-47-6	990	1000	9100	ND		0.049	0.36		0.04
p/m-Xylene	179601-23-1	990	1000	9100	ND		0.095	4.2		0.076
Styrene	100-42-5	24	10	10000	ND		0.033	ND		0.027
Tetrachloroethene	127-18-4	0.43	0.5	3600	ND		0.033	ND		0.027
Toluene	108-88-3	44	100	10000	0.21		0.092	0.89		0.074
trans-1,2-Dichloroethene	156-60-5	2.3	10	10000	ND		0.023	ND		0.019
trans-1,3-Dichloropropene	10061-02-6	0.61	3.4	640	ND		0.046	ND		0.037
Trichloroethene	79-01-6	0.17	0.5	180	ND		0.023	ND		0.019
Trichlorofluoromethane	75-69-4	87	200	10000	ND		0.12	ND		0.094
Vinyl chloride	75-01-4	0.027	0.2	290	ND		0.057	ND		0.045
Xylenes, Total	1330-20-7	990	1000	9100	ND		0.049	4.6		0.04
Target Compound List Semi-Volatile Organic Compounds (mg/kg) - EPA 8270D										
1,2,4,5-Tetrachlorobenzene	95-94-3	13	2.9	190000	ND		0.034	ND		0.019
1,4-Dioxane	123-91-1	0.35	2.7	510	ND		0.015	ND		0.0081
2,3,4,6-Tetrachlorophenol	58-90-2	4500	290	190000	ND		0.066	ND		0.036
2,4,5-Trichlorophenol	95-95-4	5900	970	190000	ND		0.062	ND		0.034
2,4,6-Trichlorophenol	88-06-2	28	9.7	190000	ND		0.062	ND		0.034
2,4-Dichlorophenol	120-83-2	1	2	190000	ND		0.052	ND		0.029
2,4-Dimethylphenol	105-67-9	83	190	10000	ND		0.11	ND		0.059
2,4-Dinitrophenol	51-28-5	2.1	19	190000	ND		0.15	ND		0.083
2,4-Dinitrotoluene	121-14-2	0.21	0.88	190000	ND		0.065	ND		0.036
2,6-Dinitrotoluene	606-20-2	0.053	0.18	190000	ND		0.056	ND		0.031
2-Chloronaphthalene	91-58-7	17000	780	190000	ND		0.032	ND		0.018
2-Chlorophenol	95-57-8	4.4	4	10000	ND		0.038	ND		0.021
2-Methylnaphthalene	91-57-6	100	2.6	270	0.18	J	0.039	0.2	J	0.022
2-Methylphenol	95-48-7	81	490	190000	ND		0.05	ND		0.028
2-Nitroaniline	88-74-4	0.0079	0.044	4.5	ND		0.062	ND		0.034
2-Nitrophenol	88-75-5	16	78	190000	ND		0.12	ND		0.067
3,3'-Dichlorobenzidine	91-94-1	33	0.6	190000	ND		0.086	ND		0.048
3-Methylphenol/4-Methylphenol	108-39-4/106-44-5	11	49	10000	0.71		0.051	ND		0.028
3-Nitroaniline	99-09-2	NA	NA	NA	ND		0.061	ND		0.034
4,6-Dinitro-o-cresol	534-52-1	NA	NA	NA	ND		0.16	ND		0.086
4-Bromophenyl phenyl ether	101-55-3	NA	NA	NA	ND		0.05	ND		0.027
4-Chloroaniline	106-47-8	1.8	1.4	190000	ND		0.059	ND		0.032
4-Chlorophenyl phenyl ether	7005-72-3	NA	NA	NA	ND		0.035	ND		0.019
4-Nitroaniline	100-01-6	2.1	14	190000	ND		0.13	ND		0.074
4-Nitrophenol	100-02-7	4.1	6	190000	ND		0.13	ND		0.073
Acenaphthene	83-32-9	4700	380	190000	0.2	J	0.034	0.25		0.018
Acenaphthylene	208-96-8	6600	580	190000	0.071	J	0.05	ND		0.028
Acetophenone	98-86-2	520	970	10000	ND		0.04	ND		0.022
Anthracene	120-12-7	350	6.6	190000	0.24		0.063	0.17		0.035
Atrazine	1912-24-9	0.13	0.3	190000	ND		0.11	ND		0.062
Benzaldehyde	100-52-7	NA	NA	NA	ND		0.088	ND		0.048
Benzo(a)anthracene	56-55-3	340	0.39	190000	0.6		0.036	0.11		0.02
Benzo(a)pyrene	50-32-8	46	0.02	190000	0.47		0.079	0.089	J	0.044
Benzo(b)fluoranthene	205-99-2	170	0.12	190000	0.52		0.055	0.11		0.03
Benzo(ghi)perylene	191-24-2	180	0.026	190000	0.23	J	0.038	0.059	J	0.021
Benzo(k)fluoranthene	207-08-9	610	0.055	190000	0.19		0.052	0.044	J	0.028
Biphenyl	92-52-4	1.5	0.35	40	ND		0.042	ND		0.023
Bis(2-chloroethoxy)methane	111-91-1	7.6	29	10000	ND		0.032	ND		0.018
Bis(2-chloroethyl)ether	111-44-4	0.023	0.076	7.6	ND		0.024	ND		0.013
Bis(2-chloroisopropyl)ether	108-60-1	8	30	250	ND		0.055	ND		0.03
Bis(2-ethylhexyl)phthalate	117-81-7	130	0.6	10000	ND		0.11	ND		0.062
Butyl benzyl phthalate	85-68-7	10000	140	10000	ND		0.082	ND		0.045
Caprolactam	105-60-2	NA	NA	NA	ND		0.099	ND		0.054
Carbazole	86-74-8	89	14	190000	0.038	J	0.032	ND		0.017
Chrysene	218-01-9	230	0.19	190000	0.48		0.034	0.089	J	0.018
Di-n-butylphthalate	84-74-2	4000	970	10000	ND		0.062	ND		0.034
Di-n-octylphthalate	117-84-0	10000	97	10000	ND		0.11	ND		0.061
Dibenzo(a,h)anthracene	53-70-3	270	0.06	190000	0.074	J	0.038	ND		0.021
Dibenzofuran	132-64-9	250	9.7	190000	0.081	J	0.031	ND		0.017
Diethyl phthalate	84-66-2	2400	7800	10000	ND		0.03	ND		0.016
Dimethyl phthalate	131-11-3	NA	NA	NA	ND		0.068	ND		0.038
Fluoranthene	206-44-0	3200	26	190000	0.91		0.037	0.29		0.02
Fluorene	86-73-7	3800	190	190000	0.13	J	0.032	0.32		0.017
Hexachlorobenzene	118-74-1	0.96	0.1	190000	ND		0.036	ND		0.02
Hexachlorobutadiene	87-68-3	42	3.5	10000	ND		0.048	ND		0.026
Hexachlorocyclopentadiene	77-47-4	91	5	10000	ND		0.29	ND		0.16
Hexachloroethane	67-72-1	0.56	0.1	270	ND		0.052	ND		0.029
Indeno(1,2,3-cd)pyrene	193-39-5	18000	0.23	190000	0.2	J	0.045	0.065	J	0.025
Isophorone	78-59-1	1.9	10	10000	ND		0.042	ND		0.023
n-Nitrosodi-n-propylamine	621-64-7	0.0018	0.013	1.3	ND		0.031	ND		0.017
Naphthalene	91-20-3	25	10	77	0.6		0.04	0.34		0.022
NDPA/DPA	86-30-6	15	9.6	990	ND		0.037	ND		0.02
Nitrobenzene	98-95-3	0.27	0.63	63	ND		0.048	ND		0.026
p-Chloro-m-cresol	59-50-7	2000	970	190000	ND		0.048	ND		0.027
Pentachlorophenol	87-86-5	5	0.1	190000	ND		0.071	ND		0.039
Phenanthrene	85-01-8	10000	110	190000	0.63		0.039	0.26		0.022
Phenol	108-95-2	33	200	18000	0.05	J	0.049	ND		0.027
Pyrene	129-00-0	2200	13	190000	0.76		0.032	0.26		0.018

Table 3: Subsurface Soil Sampling Results - 2025
49th Street Terminal Site
1700 S 49th Street, Philadelphia, PA 19143

verdantas

Sample ID		PADEP SHS			SB-01B			SB-02B			DUP-01			DUP-01			SB-03B			SB-06B			SB-07B			SB-08B			SB-09B			SB-10B		
Lab Sample ID		Non-Residential			L2550677-02			L2550677-04			L2550677-09			L2550677-09 R1			L2550677-06			L2550677-12			L2550922-02			L2550677-14			L2550677-16			L2550922-08		
Date Sampled					8/12/2025			8/12/2025			8/12/2025			8/12/2025			8/12/2025			8/12/2025			8/13/2025			8/12/2025			8/12/2025			8/13/2025		
Sample Depth		Soil to Groundwater Generic TDS≤2500	Soil to Groundwater 100X TDS≤2500	Subsurface Soil Direct Contact 2-15 feet	6.0 - 8.0 feet			3.0 - 6.5 feet			8.0 - 10.0 feet			8.0 - 10.0 feet			5.5 - 7.5 feet			3.0 - 6.0 feet			5.0 - 6.5 feet			5.0 - 6.5 feet			5.0 - 6.75 feet			6.0 - 8.0 feet		
	CAS Number				Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
Chlorinated Herbicides (mg/kg)																																		
2,4,5-T	93-76-5	**7**	**1.5**	**190000**	ND		0.00562	ND		0.00722	ND		0.00796	-		-	ND		0.0059	ND		0.00763	ND		0.00772	ND		0.00686	ND		0.00545	ND		0.00861
2,4,5-TP (Silvex)	93-72-1	**5**	**22**	**190000**	ND		0.00482	ND		0.0062	ND		0.00683	-		-	ND		0.00506	ND		0.00655	ND		0.00662	ND		0.00589	ND		0.00467	ND		0.00738
2,4-D	94-75-7	**7**	**1.8**	**190000**	ND		0.0114	ND		0.0147	ND		0.0162	-		-	ND		0.012	ND		0.0155	ND		0.0157	ND		0.0139	ND		0.0111	ND		0.0175
Pesticides (mg/kg) - EPA 8081																																		
4,4'-DDD	72-54-8	**120**	**1.1**	**190000**	ND		0.00058	ND		0.00078	ND		0.00086	-		-	ND		0.00062	ND		0.00084	ND		0.00083	ND		0.00074	ND		0.0006	ND		0.00093
4,4'-DDE	72-55-9	**170**	**0.8**	**190000**	ND		0.00037	ND		0.0005	ND		0.00055	-		-	ND		0.0004	ND		0.00054	ND		0.00054	ND		0.00048	ND		0.00039	ND		0.0006
4,4'-DDT	50-29-3	**330**	**0.55**	**190000**	ND		0.00132	ND		0.00177	ND		0.00194	-		-	ND		0.00141	ND		0.0019	ND		0.00188	ND		0.00168	0.00187	J	0.00136	0.00413	J	0.0021
Aldrin	309-00-2	**1.9**	**0.016**	**190000**	ND		0.00057	ND		0.00077	ND		0.00084	-		-	ND		0.00061	ND		0.00083	ND		0.00082	ND		0.00073	ND		0.00059	ND		0.00092
Alpha-BHC	319-84-6	**0.2**	**0.043**	**190000**	ND		0.00019	ND		0.00026	ND		0.00028	-		-	ND		0.0002	ND		0.00022	ND		0.00022	ND		0.00019	ND		0.00016	ND		0.00024
Beta-BHC	319-85-7	**0.88**	**0.15**	**190000**	ND		0.00062	ND		0.00083	ND		0.00091	-		-	ND		0.00066	ND		0.00089	ND		0.00088	ND		0.00079	ND		0.00064	ND		0.00099
Chlordane	57-74-9	**49**	**0.2**	**190000**	ND		0.00544	ND		0.00728	ND		0.00798	-		-	ND		0.00582	ND		0.00782	ND		0.00775	ND		0.00692	ND		0.00561	ND		0.00865
cis-Chlordane	5103-71-9	**NA**	**NA**	**NA**	ND		0.00057	ND		0.00076	ND		0.00084	-		-	ND		0.00061	ND		0.00082	ND		0.00081	ND		0.00072	ND		0.00059	ND		0.00091
Delta-BHC	319-86-8	**NA**	**NA**	**NA**	ND		0.00032	ND		0.00043	ND		0.00047	-		-	ND		0.00034	ND		0.00046	ND		0.00046	ND		0.00041	ND		0.00033	ND		0.00051
Dieldrin	60-57-1	**0.47**	**0.017**	**190000**	ND		0.00051	ND		0.00068	ND		0.00075	-		-	ND		0.00054	ND		0.00073	ND		0.00073	ND		0.00065	ND		0.00052	ND		0.00081
Endosulfan I	959-98-8	**260**	**50**	**190000**	ND		0.00038	ND		0.00051	ND		0.00056	-		-	ND		0.00041	ND		0.00055	ND		0.00055	ND		0.00049	ND		0.0004	ND		0.00061
Endosulfan II	33213-65-9	**260**	**45**	**190000**	ND		0.00054	ND		0.00073	ND		0.0008	-		-	ND		0.00058	ND		0.00078	ND		0.00078	ND		0.00069	ND		0.00056	ND		0.00087
Endosulfan sulfate	1031-07-8	**70**	**12**	**190000**	ND		0.00031	ND		0.00041	ND		0.00045	-		-	ND		0.00033	ND		0.00045	ND		0.00044	ND		0.00039	ND		0.00032	ND		0.00049
Endrin	72-20-8	**5.5**	**0.2**	**190000**	ND		0.00028	ND		0.00037	ND		0.00041	-		-	ND		0.0003	ND		0.0004	ND		0.0004	ND		0.00035	ND		0.00028	ND		0.00044
Endrin aldehyde	7421-93-4	**NA**	**NA**	**NA**	ND		0.00071	ND		0.00096	ND		0.00105	-		-	ND		0.00076	ND		0.00103	ND		0.00102	ND		0.00091	ND		0.00074	ND		0.00114
Endrin ketone	53494-70-5	**NA**	**NA**	**NA**	ND		0.00042	ND		0.00056	ND		0.00062	-		-	ND		0.00045	ND		0.0006	ND		0.0006	ND		0.00053	ND		0.00043	ND		0.00067
Heptachlor	76-44-8	**0.68**	**0.04**	**190000**	ND		0.00036	ND		0.00049	ND		0.00054	-		-	ND		0.00039	ND		0.00052	ND		0.00052	ND		0.00046	ND		0.00038	ND		0.00058
Heptachlor epoxide	1024-57-3	**1.1**	**0.02**	**190000**	ND		0.00092	ND		0.00124	ND		0.00136	-		-	ND		0.00098	ND		0.00133	ND		0.00132	ND		0.00118	ND		0.00095	ND		0.00147
Lindane	58-89-9	**0.072**	**0.02**	**190000**	ND		0.0003	ND		0.0004	ND		0.00044	-		-	ND		0.00032	ND		0.00044	ND		0.00043	ND		0.00038	ND		0.00031	ND		0.00048
Methoxychlor	72-43-5	**630**	**4**	**190000**	ND		0.00095	ND		0.00128	ND		0.0014	-		-	ND		0.00102	ND		0.00138	ND		0.00136	ND		0.00122	ND		0.00098	ND		0.00152
Toxaphene	8001-35-2	**1.2**	**0.3**	**190000**	ND		0.00861	ND		0.0115	ND		0.0126	-		-	ND		0.00922	ND		0.0124	ND		0.0123	ND		0.011	ND		0.00889	ND		0.0137
trans-Chlordane	5103-74-2	**NA**	**NA**	**NA**	ND		0.00054	ND		0.00072	ND		0.00079	-		-	ND		0.00057	ND		0.00077	ND		0.00077	ND		0.00069	ND		0.00055	ND		0.00086
Polychlorinated Biphenyls (mg/kg) - EPA 8082A																																		
Aroclor 1016	12674-11-2	**190**	**0.68**	**10000**	ND		0.00449	ND		0.00605	ND		0.00651	-		-	ND		0.00479	ND		0.00634	ND		0.00625	ND		0.00567	ND		0.00457	ND		0.00726
Aroclor 1221	11104-28-2	**0.68**	**0.14**	**27**	ND		0.00507	ND		0.00683	ND		0.00735	-		-	ND		0.0054	ND		0.00715	ND		0.00705	ND		0.0064	ND		0.00516	ND		0.00819
Aroclor 1232	11141-16-5	**0.54**	**0.14**	**10000**	ND		0.0107	ND		0.0144	ND		0.0155	-		-	ND		0.0114	ND		0.0151	ND		0.0149	ND		0.0135	ND		0.0109	ND		0.0173
Aroclor 1242	53469-21-9	**17**	**0.14**	**10000**	ND		0.00682	ND		0.00919	ND		0.00988	-		-	ND		0.00727	ND		0.00962	ND		0.00948	ND		0.00861	ND		0.00694	ND		0.011
Aroclor 1248	12672-29-6	**67**	**0.14**	**10000**	ND		0.00759	ND		0.0102	ND		0.011	-		-	ND		0.00809	ND		0.0107	ND		0.0106	ND		0.00958	ND		0.00772	ND		0.0122
Aroclor 1254	11097-69-1	**380**	**0.19**	**10000**	ND		0.00553	ND		0.00746	ND		0.00802	-		-	ND		0.0059	ND		0.00781	ND		0.0077	ND		0.00699	ND		0.00563	ND		0.00894
Aroclor 1260	11096-82-5	**630**	**0.14**	**190000**	0.0105	J	0.00935	ND		0.0126	ND		0.0136	-		-	ND		0.00996	0.0333	J	0.0132	ND		0.013	ND		0.0118	0.0372	JP	0.00952	ND		0.0151
Aroclor 1262	37324-23-5	**NA**	**NA**	**NA**	ND		0.00642	ND		0.00866	ND		0.00931	-		-	ND		0.00685	ND		0.00906	ND		0.00893	ND		0.00811	ND		0.00654	ND		0.0104
Aroclor 1268	11100-14-4	**NA**	**NA**	**NA**	ND		0.00524	ND		0.00706	ND		0.0076	-		-	ND		0.00559	ND		0.00739	ND		0.00729	ND		0.00662	0.0107	J	0.00534	ND		0.00847
PCBs, Total	1336-36-3	**NA**	**NA**	**NA**	0.0105	J	0.00449	ND		0.00605	ND		0.00651	-		-	ND		0.00479	0.0333	J	0.00634	ND		0.00625	ND		0.00567	0.0479	J	0.00457	ND		0.00726
Target Analyte List Metals (mg/kg) - EPA 6010B/7471B																																		
Aluminum, Total	7429-90-5	**190000**	**NA**	**190000**	7800		2.76	4050		3.64	4330		3.97	-		-	5960		2.98	7940		3.84	2340		3.89	10300		3.42	5170		2.69	6430		8.52
Antimony, Total	7440-36-0	**27**	**0.6**	**190000**	ND		3.26	ND		4.32	ND		4.7	-		-	ND		3.54	ND		4.55	ND		4.61	ND		4.06	20.6		3.18	ND		10.1
Arsenic, Total	7440-38-2	**29**	**1**	**190000**	2.18		0.366	16.4		0.484	2.55		0.528	-		-	2.07		0.397	14.6		0.511	3.98		0.517	7.64		0.455	13.1		0.357	32.3		1.13
Barium, Total	7440-39-3	**8200**	**200**	**190000**	48.2		0.09	897		0.119	39		0.129	-		-	45.6		0.097	167		0.125	113		0.127	142		0.112	189		0.088	993		0.278
Beryllium, Total	7440-41-7	**320**	**0.4**	**190000**	0.377	J	0.047	0.377	J	0.062	0.278	J	0.067	-		-	0.397	J	0.051	1.06		0.065	0.246	J	0.066	0.727		0.058	0.403	J	0.046	0.52	J	0.144
Cadmium, Total	7440-43-9	**38**	**0.5**	**190000**	0.08	J	0.047	0.618	J	0.062	0.123	J	0.067	-		-	0.075	J	0.051	0.46	J	0.065	0.396	J	0.066	0.376	J	0.058	1.47		0.046	7.61		0.144
Calcium, Total	7440-70-2	**NA**	**NA**	**NA**	1540		4.81	4410		6.36	1440		6.93	-		-	1610		5.21	10200		6.71	4120		6.79	15000		5.98	11300		4.69	44900		14.9
Chromium, Total	7440-47-3	**NA**	**NA**	**NA**	17.8		0.719	73		0.951	14.1		1.04	-		-	18.4		0.779	9.01		1	6.02		1.02	31.4		0.894	52.2		0.701	74.4		2.22
Cobalt, Total	7440-48-4	**130**	**3**	**190000**	6.31		0.21	9.09		0.278	4.71		0.303	-		-	5.86		0.228	7.49		0.293	2.19	J	0.297	8.53		0.261	5.78		0.205	6.39		0.65
Copper, Total	7440-50-8	**43000**	**100**	**190000**	14.4		0.192	39.2		0.254	7.17		0.277	-		-	6.69		0.208	141		0.268	37.2		0.272	116		0.239	97.7		0.188	114		0.595
Iron, Total	7439-89-6	**NA**	**NA**	**190000**	11500		0.89	6860		1.18	10100		1.28	-		-	10300		0.964	11800		1.24	9810		1.26	20300		1.11	22800		0.868	33900		2.75
Lead, Total	7439-92-1	**450**	**0.5**	**190000**	57.3		0.202	912		0.267	15.3		0.291	-		-	8.99		0.218	182		0.281	581		0.285	187		0.251	2010		0.197	4700		0.624
Magnesium, Total	7439-95-4	**NA**	**NA**	**NA**	2280		1.38	1060		1.83	1900		1.99	-		-	2420		1.5	399		1.93	352		1.95	3790		1.72	2040		1.35	2540		4.27
Manganese, Total	7439-96-5	**2000**	**30**	**190000**	86.9		0.454	93.5		0.601	281		0.655	-		-	112		0.492	84.4		0.634	135		0.642	512		0.565	180		0.443	508		1.4
Mercury, Total	7439-97-6	**10**	**0.2**	**190000**	0.162		0.053	0.184		0.072	ND		0.081	-		-	ND		0.05	0.391		0.073	0.242		0.065	0.436		0.062	6.53		1.27	4.76		0.152
Nickel, Total	7440-02-0	**650**	**10**	**190000**	9.7		0.685	14.3		0.906	9.19		0.987	-		-	11.3		0.742	16.3		0.956	5.15		0.967	19		0.852	15.6		0.668	13.2		2.12
Potassium, Total	7440-09-7	**NA**	**NA**	**NA**	1620		43	587		56.8	684		61.9	-		-	751		46.6	459		60	316		60.7	1880		53.4	714		41.9	894		133
Selenium, Total	7782-49-2	**26**	**5**	**190000**	ND		0.279	4.25		0.369	ND		0.402	-		-	ND		0.302	2.27	J	0.389	0.706	J	0.394	0.66	J	0.347	0.814	J	0.272	14.7		0.863
Silver, Total	7440-22-4	**84**	**10**	**190000**	ND		0.253	0.929		0.334	ND		0.364	-		-	ND		0.274	ND		0.352	ND		0.357	0.356	J	0.314	2.28		0.246	5.22		0.781
Sodium, Total	7440-23-5	**NA**	**NA**	**NA**	ND		89.9	144	J	119	ND		129	-		-	ND		97.3	152	J	125	ND		127	325		112	113	J	87.6	ND		278
Thallium, Total	7440-28-0	**14**	**0.2**	**190000**	ND		0.765	ND		1.01	ND		1.1	-		-	ND		0.828	ND		1.07	ND		1.08	ND		0.951	ND		0.746	ND		2.36
Vanadium, Total	7440-62-2	**680**	**0.68**	**190000**	25		0.128	33.4		0.169	12.7		0.184	-		-	15.2		0.139	23.1		0.178	12.3		0.181	25.8		0.159	34.9		0.125	17.7		0.396
Zinc, Total	7440-66-6	**12000**	**200**	**190000**	46.1		0.514	710		0.68	36.8		0.74	-		-	30.4		0.556	331		0.717	317		0.725	164		0.639	304		0.501	3210		1.59
General Chemistry																																		
Chromium, Hexavalent	18540-29-9	**190**	**10**	**140000**	ND		0.174	ND		0.227	ND		0.184	-		-	ND		0.249	ND		0.241	-		-	ND		0.216	ND		0.17	ND		0.216
Solids, Total	NONE	**NA**	**NA**	**NA**	91.7		NA	70.6		NA	64.2		NA	-		-	86.9		NA	65.9		NA	66.3		NA	74		NA	93.9		NA	59.4		NA

Notes:
MSC - MEDIUM -SPECIFIC CONCENTRATIONS FOR ORGANIC REGULATED SUBSTANCES IN SOIL
PADEP SHS - Pennsylvania Department of Environmental Protection Statewide Health Standards
Results compared to the PADEP SHS Non-residential Direct Contact, Generic, and 100X GW
Soil-to-Groundwater (TDS≤2500 mg/L) MSCs, criteria last updated November 20, 2021.
The higher of the Generic and 100X GW Soil-to-Groundwater MSC values was used as the Soil-to-Groundwater limit.
The lower of the Generic/100X GW Soil-to-Groundwater and Direct Contact MSC values was used as the soil limit.
- Indicates the selected PADEP SHS Non-Residential MSC limit.
ND - Not Detected
MDL - Method Detection Limit
Q - Qualifier
J - Result is less than the reporting limit but greater than or equal to the MDL and indicates an approximate value.
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
mg/kg - milligrams per kilogram
NA - Not Applicable
- The concentration exceeds the selected PADEP SHS Non-Residential MSC limit and RFCL.
- The analyte MDL exceeds the SHS or RFCL, however the result is reported as ND.

Table 3: Subsurface Soil Sampling Results - 2025
49th Street Terminal Site
1700 S 49th Street, Philadelphia, PA 19143

verdantas

Sample ID		PADEP SHS			SB-11B			SB-12B			SB-13B			DUP-02			SB-14B			SB-15B			SB-16B			MW-01B			MW-02B			MW-02B		
Lab Sample ID		Non-Residential			L2550922-11			L2550922-13			L2550922-16			L2550922-17			L2550922-19			L2550922-21			L2550922-23			L2550922-05			L2551270-02			L2551270-02 R1		
Date Sampled		Soil to Groundwater Generic TDS≤2500	Soil to Groundwater 100X TDS≤2500	Subsurface Soil Direct Contact 2-15 feet	8/13/2025			8/13/2025			8/13/2025			8/13/2025			8/13/2025			8/13/2025			8/13/2025			8/13/2025			8/14/2025			8/14/2025		
Sample Depth					5.5 - 7.0 feet			5.0 - 6.5 feet			7.0 - 8.5 feet			5.0 - 7.0 feet			6.0 - 8.0 feet			6.0 - 7.0 feet			6.0 - 8.0 feet			5.0 - 6.5 feet			5.0 - 7.0 feet			5.0 - 7.0 feet		
	CAS Number				Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
Chlorinated Herbicides (mg/kg)																																		
2,4,5-T	93-76-5	**7**	**1.5**	**190000**	ND		0.00687	ND		0.00669	ND		0.00588	ND		0.00614	ND		0.00662	ND		0.00749	ND		0.00784	ND		0.00666	ND		0.00565	-		-
2,4,5-TP (Silvex)	93-72-1	**5**	**22**	**190000**	ND		0.0059	ND		0.00574	ND		0.00504	ND		0.00526	ND		0.00568	ND		0.00643	ND		0.00673	ND		0.00572	ND		0.00485	-		-
2,4-D	94-75-7	**7**	**1.8**	**190000**	ND		0.014	ND		0.0136	ND		0.0119	ND		0.0125	ND		0.0134	ND		0.0152	ND		0.0159	ND		0.0135	ND		0.0115	-		-
Pesticides (mg/kg) - EPA 8081																																		
4,4'-DDD	72-54-8	**120**	**1.1**	**190000**	ND		0.00072	ND		0.00072	ND		0.00064	ND		0.00065	ND		0.00072	ND		0.00081	ND		0.00084	ND		0.00071	ND		0.00062	-		-
4,4'-DDE	72-55-9	**170**	**0.8**	**190000**	ND		0.00047	ND		0.00046	ND		0.00041	ND		0.00042	ND		0.00047	ND		0.00052	ND		0.00055	ND		0.00046	ND		0.0004	-		-
4,4'-DDT	50-29-3	**330**	**0.55**	**190000**	ND		0.00163	ND		0.00163	ND		0.00145	ND		0.00148	ND		0.00164	ND		0.00184	ND		0.00191	ND		0.00161	ND		0.0014	-		-
Aldrin	309-00-2	**1.9**	**0.016**	**190000**	ND		0.00071	ND		0.00071	ND		0.00063	ND		0.00064	ND		0.00071	ND		0.0008	ND		0.00083	ND		0.0007	ND		0.00061	-		-
Alpha-BHC	319-84-6	**0.2**	**0.043**	**190000**	ND		0.00019	ND		0.00019	ND		0.00017	ND		0.00017	ND		0.00019	ND		0.00021	ND		0.00022	ND		0.00019	ND		0.00016	-		-
Beta-BHC	319-85-7	**0.88**	**0.15**	**190000**	ND		0.00077	ND		0.00077	ND		0.00068	ND		0.00069	ND		0.00077	ND		0.00086	ND		0.0009	ND		0.00076	ND		0.00066	-		-
Chlordane	57-74-9	**49**	**0.2**	**190000**	ND		0.00672	ND		0.00672	ND		0.00598	ND		0.0061	ND		0.00673	ND		0.00757	ND		0.00788	ND		0.00665	ND		0.00578	-		-
cis-Chlordane	5103-71-9	**NA**	**NA**	**NA**	ND		0.0007	ND		0.0007	ND		0.00062	ND		0.00064	ND		0.0007	ND		0.00079	ND		0.00082	ND		0.0007	ND		0.0006	-		-
Delta-BHC	319-86-8	**NA**	**NA**	**NA**	ND		0.0004	ND		0.0004	ND		0.00035	ND		0.00036	ND		0.0004	ND		0.00045	ND		0.00047	ND		0.00039	ND		0.00034	-		-
Dieldrin	60-57-1	**0.47**	**0.017**	**190000**	ND		0.00063	ND		0.00063	ND		0.00056	ND		0.00057	ND		0.00063	ND		0.00071	ND		0.00074	ND		0.00062	ND		0.00054	-		-
Endosulfan I	959-98-8	**260**	**50**	**190000**	ND		0.00048	ND		0.00048	ND		0.00042	ND		0.00043	ND		0.00048	ND		0.00054	ND		0.00056	ND		0.00047	ND		0.00041	-		-
Endosulfan II	33213-65-9	**260**	**45**	**190000**	ND		0.00067	ND		0.00067	ND		0.0006	ND		0.00061	ND		0.00067	ND		0.00076	ND		0.00079	ND		0.00067	ND		0.00058	-		-
Endosulfan sulfate	1031-07-8	**70**	**12**	**190000**	ND		0.00038	ND		0.00038	ND		0.00034	ND		0.00035	ND		0.00038	ND		0.00043	ND		0.00045	ND		0.00038	ND		0.00033	-		-
Endrin	72-20-8	**5.5**	**0.2**	**190000**	ND		0.00034	ND		0.00034	ND		0.0003	ND		0.00031	ND		0.00034	ND		0.00039	ND		0.0004	ND		0.00034	ND		0.00029	-		-
Endrin aldehyde	7421-93-4	**NA**	**NA**	**NA**	ND		0.00088	ND		0.00088	ND		0.00078	ND		0.0008	ND		0.00089	ND		0.001	ND		0.00104	ND		0.00087	ND		0.00076	-		-
Endrin ketone	53494-70-5	**NA**	**NA**	**NA**	ND		0.00052	ND		0.00052	ND		0.00046	ND		0.00047	ND		0.00052	ND		0.00058	ND		0.00061	ND		0.00051	ND		0.00044	-		-
Heptachlor	76-44-8	**0.68**	**0.04**	**190000**	ND		0.00045	ND		0.00045	ND		0.0004	ND		0.00041	ND		0.00045	ND		0.00051	ND		0.00053	ND		0.00045	ND		0.00039	-		-
Heptachlor epoxide	1024-57-3	**1.1**	**0.02**	**190000**	ND		0.00114	ND		0.00114	ND		0.00102	ND		0.00104	ND		0.00114	ND		0.00128	ND		0.00134	ND		0.00113	ND		0.00098	-		-
Lindane	58-89-9	**0.072**	**0.02**	**190000**	ND		0.00037	ND		0.00037	ND		0.00033	ND		0.00034	ND		0.00037	ND		0.00042	ND		0.00044	ND		0.00037	ND		0.00032	-		-
Methoxychlor	72-43-5	**630**	**4**	**190000**	ND		0.00118	ND		0.00118	ND		0.00105	ND		0.00107	ND		0.00119	ND		0.00133	ND		0.00139	ND		0.00117	ND		0.00102	-		-
Toxaphene	8001-35-2	**1.2**	**0.3**	**190000**	ND		0.0106	ND		0.0106	ND		0.00947	ND		0.00966	ND		0.0107	ND		0.012	ND		0.0125	ND		0.0105	ND		0.00916	-		-
trans-Chlordane	5103-74-2	**NA**	**NA**	**NA**	ND		0.00067	ND		0.00067	ND		0.00059	ND		0.0006	ND		0.00067	ND		0.00075	ND		0.00078	ND		0.00066	ND		0.00057	-		-
Polychlorinated Biphenyls (mg/kg) - EPA 8082A																																		
Aroclor 1016	12674-11-2	**190**	**0.68**	**10000**	ND		0.00567	ND		0.00555	ND		0.00495	ND		0.00505	ND		0.00571	ND		0.0064	ND		0.00666	ND		0.0053	ND		0.00484	-		-
Aroclor 1221	11104-28-2	**0.68**	**0.14**	**27**	ND		0.00639	ND		0.00626	ND		0.00559	ND		0.0057	ND		0.00645	ND		0.00722	ND		0.00752	ND		0.00598	ND		0.00547	-		-
Aroclor 1232	11141-16-5	**0.54**	**0.14**	**10000**	ND		0.0135	ND		0.0132	ND		0.0118	ND		0.012	ND		0.0136	ND		0.0153	ND		0.0159	ND		0.0126	ND		0.0116	-		-
Aroclor 1242	53469-21-9	**17**	**0.14**	**10000**	ND		0.0086	ND		0.00843	ND		0.00752	ND		0.00767	ND		0.00867	ND		0.00972	ND		0.0101	ND		0.00805	ND		0.00736	-		-
Aroclor 1248	12672-29-6	**67**	**0.14**	**10000**	ND		0.00957	ND		0.00938	ND		0.00837	ND		0.00853	ND		0.00965	ND		0.0108	ND		0.0112	ND		0.00896	ND		0.00818	-		-
Aroclor 1254	11097-69-1	**380**	**0.19**	**10000**	ND		0.00698	ND		0.00684	ND		0.0061	ND		0.00622	ND		0.00704	ND		0.00789	ND		0.00821	ND		0.00653	ND		0.00597	-		-
Aroclor 1260	11096-82-5	**630**	**0.14**	**190000**	ND		0.0118	ND		0.0116	ND		0.0103	ND		0.0105	ND		0.0119	ND		0.0133	ND		0.0139	ND		0.011	ND		0.0101	-		-
Aroclor 1262	37324-23-5	**NA**	**NA**	**NA**	ND		0.0081	ND		0.00794	ND		0.00708	ND		0.00722	ND		0.00817	ND		0.00916	ND		0.00953	ND		0.00758	ND		0.00693	-		-
Aroclor 1268	11100-14-4	**NA**	**NA**	**NA**	ND		0.00661	ND		0.00648	ND		0.00578	ND		0.00589	ND		0.00666	ND		0.00747	ND		0.00777	ND		0.00618	ND		0.00565	-		-
PCBs, Total	1336-36-3	**NA**	**NA**	**NA**	ND		0.00567	ND		0.00555	ND		0.00495	ND		0.00505	ND		0.00571	ND		0.0064	ND		0.00666	ND		0.0053	ND		0.00484	-		-
Target Analyte List Metals (mg/kg) - EPA 6010B/7471B																																		
Aluminum, Total	7429-90-5	**190000**	**NA**	**190000**	2290		3.3	6580		3.4	7930		2.82	10000		14.9	4690		3.35	12200		18.5	1400		3.89	2860		3.27	3640		2.79	-		-
Antimony, Total	7440-36-0	**27**	**0.6**	**190000**	ND		3.91	ND		4.02	ND		3.34	ND		17.6	ND		3.97	ND		21.9	ND		4.6	ND		3.87	ND		3.3	-		-
Arsenic, Total	7440-38-2	**29**	**1**	**190000**	0.772	J	0.438	15.2		0.452	3.39		0.375	5.41		1.98	22.7		0.446	57.5		2.46	6.77		0.517	2.41		0.434	13.2		0.371	-		-
Barium, Total	7440-39-3	**8200**	**200**	**190000**	6.24		0.108	509		0.111	135		0.092	111		0.485	272		0.109	616		0.603	63.4		0.127	25.8		0.106	103		0.091	-		-
Beryllium, Total	7440-41-7	**320**	**0.4**	**190000**	0.234	J	0.056	0.555		0.058	0.55		0.048	1.04	J	0.252	0.338	J	0.057	0.884	J	0.313	0.146	J	0.066	0.206	J	0.055	0.293	J	0.047	-		-
Cadmium, Total	7440-43-9	**38**	**0.5**	**190000**	ND		0.056	1.52		0.058	0.116	J	0.048	0.389	J	0.252	1.11		0.057	8.74		0.313	0.136	J	0.066	0.063	J	0.055	0.398	J	0.047	-		-
Calcium, Total	7440-70-2	**NA**	**NA**	**NA**	2470		5.75	6310		5.93	41400		4.92	2980		26	4980		5.85	15600		32.3	1240		6.78	1130		5.7	6070		4.86	-		-
Chromium, Total	7440-47-3	**NA**	**NA**	**NA**	1.67		0.86	23.3		0.886	16.4		0.736	26.2		3.88	19.6		0.875	35.9		4.82	2.73		1.01	16.1		0.853	7.58		0.728	-		-
Cobalt, Total	7440-48-4	**130**	**3**	**190000**	1.9	J	0.252	6.78		0.259	8.82		0.215	16.4		1.14	4.27		0.256	33.7		1.41	1.49	J	0.297	4.75		0.249	2.83		0.213	-		-
Copper, Total	7440-50-8	**43000**	**100**	**190000**	12.5		0.23	161		0.237	15.2		0.197	42.7		1.04	143		0.234	1590		1.29	20.6		0.272	5.21		0.228	41.7		0.195	-		-
Iron, Total	7439-89-6	**NA**	**NA**	**190000**	5300		1.06	16900		1.1	12200		0.912	17600		4.81	16400		1.08	93900		5.97	4190		1.26	8980		1.06	4870		0.901	-		-
Lead, Total	7439-92-1	**450**	**0.5**	**190000**	3.1	J	0.242	601		0.249	47.6		0.207	91.8		1.09	818		0.246	6810		1.35	1070		0.285	10.2		0.239	2090		0.204	-		-
Magnesium, Total	7439-95-4	**NA**	**NA**	**NA**	1230		1.65	2570		1.7	2080		1.42	2840		7.46	592		1.68	1180		9.27	148		1.95	1130		1.64	801		1.4	-		-
Manganese, Total	7439-96-5	**2000**	**30**	**190000**	156		0.544	181		0.56	392		0.466	393		2.45	145		0.553	854		3.05	23.1		0.641	193		0.539	273		0.46	-		-
Mercury, Total	7439-97-6	**10**	**0.2**	**190000**	0.164		0.057	3.02		0.063	ND		0.054	0.229		0.058	0.293		0.057	1.21		0.074	0.143		0.078	ND		0.061	0.709		0.054	-		-
Nickel, Total	7440-02-0	**650**	**10**	**190000**	2.6		0.82	18		0.845	12.5		0.702	23.6		3.7	10.4		0.834	95.6		4.6	3.49		0.966	6.31		0.812	9.71		0.693	-		-
Potassium, Total	7440-09-7	**NA**	**NA**	**NA**	1580		51.4	758		53	787		44	1010	J	232	671		52.3	1370	J	288	263	J	60.6	454		51	248		43.5	-		-
Selenium, Total	7782-49-2	**26**	**5**	**190000**	ND		0.334	2.01	J	0.344	0.521	J	0.286	ND		1.51	4.55		0.339	51.8		1.87	1.52	J	0.394	ND		0.331	11.1		0.282	-		-
Silver, Total	7440-22-4	**84**	**10**	**190000**	ND		0.302	0.668		0.312	ND		0.259	ND		1.36	0.648		0.307	1.75	J	1.7	ND		0.356	ND		0.3	0.273	J	0.256	-		-
Sodium, Total	7440-23-5	**NA**	**NA**	**NA**	ND		108	184	J	111	424		92.1	ND		485	270		109	ND		603	ND		127	ND		106	ND		91	-		-
Thallium, Total	7440-28-0	**14**	**0.2**	**190000**	ND		0.915	ND		0.943	ND		0.783	ND		4.13	ND		0.931	ND		5.13	ND		1.08	ND		0.907	ND		0.774	-		-
Vanadium, Total	7440-62-2	**680**	**0.68**	**190000**	1.64		0.153	31.7		0.158	16.6		0.131	23.8		0.692	20.4		0.156	52.5		0.859	9.69		0.181	7.56		0.152	19.7		0.13	-		-
Zinc, Total	7440-66-6	**12000**	**200**	**190000**	54.6		0.615	661		0.633	53.1		0.526	112		2.78	482		0.625	10400		3.45	84.1		0.725	22.1		0.609	581		0.52	-		-
General Chemistry																																		
Chromium, Hexavalent	18540-29-9	**190**	**10**	**140000**	-		-	ND		0.184	ND		0.208	ND		0.233	ND		0.248	-		-	ND		0.207	-		-	-		-	ND		0.314
Solids, Total	NONE	**NA**	**NA**	**NA**	74.2		NA	75.8		NA	86.7		NA	83.4		NA	76.8		NA	68.6		NA	64.5		NA	77.4		NA	90.9		NA	-		-

Notes:
MSC - MEDIUM -SPECIFIC CONCENTRATIONS FOR ORGANIC REGULATED SUBSTANCES IN SOIL
PADEP SHS - Pennsylvania Department of Environmental Protection Statewide Health Standards
Results compared to the PADEP SHS Non-residential Direct Contact, Generic, and 100X GW
Soil-to-Groundwater (TDS≤2500 mg/L) MSCs, criteria last updated November 20, 2021.
The higher of the Generic and 100X GW Soil-to-Groundwater MSC values was used as the Soil-to-Groundwater limit.
The lower of the Generic/100X GW Soil-to-Groundwater and Direct Contact MSC values was used as the soil limit.
- Indicates the selected PADEP SHS Non-Residential MSC limit.
ND - Not Detected
MDL - Method Detection Limit
Q - Qualifier
J - Result is less than the reporting limit but greater than or equal to the MDL and indicates an approximate value.
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
mg/kg - milligrams per kilogram
NA - Not Applicable
- The concentration exceeds the selected PADEP SHS Non-Residential MSC limit and RFCL.
- The analyte MDL exceeds the SHS or RFCL, however the result is reported as ND.

Table 3: Subsurface Soil Sampling Results - 2025
49th Street Terminal Site
1700 S 49th Street, Philadelphia, PA 19143

verdantas

Sample ID		PADEP SHS			DUP-03			MW-03B		
Lab Sample ID		Non-Residential			L2551270-05			L2551270-04		
Date Sampled					8/14/2025			8/14/2025		
Sample Depth		Soil to Groundwater Generic TDS≤2500	Soil to Groundwater 100X TDS≤2500	Subsurface Soil Direct Contact 2-15 feet	7.0 - 9.0 feet			5.0 - 7.0 feet		
	CAS Number				Result	Q	MDL	Result	Q	MDL
Chlorinated Herbicides (mg/kg)										
2,4,5-T	93-76-5	**7**	**1.5**	**190000**	ND		0.0099	ND		0.00559
2,4,5-TP (Silvex)	93-72-1	**5**	**22**	**190000**	ND		0.00849	ND		0.0048
2,4-D	94-75-7	**7**	**1.8**	**190000**	ND		0.0201	ND		0.0114
Pesticides (mg/kg) - EPA 8081										
4,4'-DDD	72-54-8	**120**	**1.1**	**190000**	ND		0.00109	ND		0.00059
4,4'-DDE	72-55-9	**170**	**0.8**	**190000**	ND		0.00071	ND		0.00038
4,4'-DDT	50-29-3	**330**	**0.55**	**190000**	ND		0.00247	ND		0.00135
Aldrin	309-00-2	**1.9**	**0.016**	**190000**	ND		0.00108	ND		0.00059
Alpha-BHC	319-84-6	**0.2**	**0.043**	**190000**	ND		0.00029	ND		0.00016
Beta-BHC	319-85-7	**0.88**	**0.15**	**190000**	ND		0.00116	ND		0.00063
Chlordane	57-74-9	**49**	**0.2**	**190000**	ND		0.0102	ND		0.00556
cis-Chlordane	5103-71-9	**NA**	**NA**	**NA**	ND		0.00107	ND		0.00058
Delta-BHC	319-86-8	**NA**	**NA**	**NA**	ND		0.0006	ND		0.00033
Dieldrin	60-57-1	**0.47**	**0.017**	**190000**	ND		0.00095	ND		0.00052
Endosulfan I	959-98-8	**260**	**50**	**190000**	ND		0.00072	ND		0.00039
Endosulfan II	33213-65-9	**260**	**45**	**190000**	ND		0.00102	ND		0.00056
Endosulfan sulfate	1031-07-8	**70**	**12**	**190000**	ND		0.00058	ND		0.00032
Endrin	72-20-8	**5.5**	**0.2**	**190000**	ND		0.00052	0.00048	JIP	0.00028
Endrin aldehyde	7421-93-4	**NA**	**NA**	**NA**	ND		0.00134	ND		0.00073
Endrin ketone	53494-70-5	**NA**	**NA**	**NA**	ND		0.00079	ND		0.00043
Heptachlor	76-44-8	**0.68**	**0.04**	**190000**	ND		0.00068	ND		0.00037
Heptachlor epoxide	1024-57-3	**1.1**	**0.02**	**190000**	ND		0.00173	ND		0.00094
Lindane	58-89-9	**0.072**	**0.02**	**190000**	ND		0.00057	ND		0.00031
Methoxychlor	72-43-5	**630**	**4**	**190000**	ND		0.00179	ND		0.00098
Toxaphene	8001-35-2	**1.2**	**0.3**	**190000**	ND		0.0161	ND		0.00882
trans-Chlordane	5103-74-2	**NA**	**NA**	**NA**	ND		0.00101	ND		0.00055
Polychlorinated Biphenyls (mg/kg) - EPA 8082A										
Aroclor 1016	12674-11-2	**190**	**0.68**	**10000**	ND		0.0083	ND		0.00459
Aroclor 1221	11104-28-2	**0.68**	**0.14**	**27**	ND		0.00936	ND		0.00518
Aroclor 1232	11141-16-5	**0.54**	**0.14**	**10000**	ND		0.0198	ND		0.011
Aroclor 1242	53469-21-9	**17**	**0.14**	**10000**	ND		0.0126	ND		0.00697
Aroclor 1248	12672-29-6	**67**	**0.14**	**10000**	ND		0.014	ND		0.00776
Aroclor 1254	11097-69-1	**380**	**0.19**	**10000**	ND		0.0102	ND		0.00566
Aroclor 1260	11096-82-5	**630**	**0.14**	**190000**	ND		0.0173	ND		0.00956
Aroclor 1262	37324-23-5	**NA**	**NA**	**NA**	ND		0.0119	ND		0.00657
Aroclor 1268	11100-14-4	**NA**	**NA**	**NA**	ND		0.00968	ND		0.00536
PCBs, Total	1336-36-3	**NA**	**NA**	**NA**	ND		0.0083	ND		0.00459
Target Analyte List Metals (mg/kg) - EPA 6010B/7471B										
Aluminum, Total	7429-90-5	**190000**	**NA**	**190000**	12800		4.95	3030		2.76
Antimony, Total	7440-36-0	**27**	**0.6**	**190000**	ND		5.86	ND		3.27
Arsenic, Total	7440-38-2	**29**	**1**	**190000**	6.38		0.658	11.1		0.366
Barium, Total	7440-39-3	**8200**	**200**	**190000**	121		0.161	206		0.09
Beryllium, Total	7440-41-7	**320**	**0.4**	**190000**	1.43		0.084	0.282	J	0.047
Cadmium, Total	7440-43-9	**38**	**0.5**	**190000**	0.595	J	0.084	0.39	J	0.047
Calcium, Total	7440-70-2	**NA**	**NA**	**NA**	4570		8.64	4240		4.81
Chromium, Total	7440-47-3	**NA**	**NA**	**NA**	34.4		1.29	7.3		0.719
Cobalt, Total	7440-48-4	**130**	**3**	**190000**	25.5		0.378	8.03		0.21
Copper, Total	7440-50-8	**43000**	**100**	**190000**	63.7		0.346	92.5		0.192
Iron, Total	7439-89-6	**NA**	**NA**	**190000**	21300		1.6	11400		0.891
Lead, Total	7439-92-1	**450**	**0.5**	**190000**	165		0.362	285		0.202
Magnesium, Total	7439-95-4	**NA**	**NA**	**NA**	4400		2.48	330		1.38
Manganese, Total	7439-96-5	**2000**	**30**	**190000**	612		0.816	77.4		0.455
Mercury, Total	7439-97-6	**10**	**0.2**	**190000**	0.464		0.095	0.445		0.047
Nickel, Total	7440-02-0	**650**	**10**	**190000**	34.4		1.23	29.8		0.686
Potassium, Total	7440-09-7	**NA**	**NA**	**NA**	1840		77.2	390		43
Selenium, Total	7782-49-2	**26**	**5**	**190000**	0.628	J	0.501	1.37	J	0.279
Silver, Total	7440-22-4	**84**	**10**	**190000**	ND		0.454	ND		0.253
Sodium, Total	7440-23-5	**NA**	**NA**	**NA**	ND		161	176		89.9
Thallium, Total	7440-28-0	**14**	**0.2**	**190000**	ND		1.37	ND		0.765
Vanadium, Total	7440-62-2	**680**	**0.68**	**190000**	28.8		0.23	15.6		0.128
Zinc, Total	7440-66-6	**12000**	**200**	**190000**	183		0.923	364		0.514
General Chemistry										
Chromium, Hexavalent	18540-29-9	**190**	**10**	**140000**				ND		0.175
Solids, Total	NONE	**NA**	**NA**	**NA**	50.9		NA	91.3		NA

Notes:
MSC - MEDIUM -SPECIFIC CONCENTRATIONS FOR ORGANIC REGULATED SUBSTANCES IN SOIL
PADEP SHS - Pennsylvania Department of Environmental Protection Statewide Health Standards
Results compared to the PADEP SHS Non-residential Direct Contact, Generic, and 100X GW
Soil-to-Groundwater (TDS≤2500 mg/L) MSCs, criteria last updated November 20, 2021.
The higher of the Generic and 100X GW Soil-to-Groundwater MSC values was used as the Soil-to-Groundwater limit.
The lower of the Generic/100X GW Soil-to-Groundwater and Direct Contact MSC values was used as the soil limit.
- Indicates the selected PADEP SHS Non-Residential MSC limit.
ND - Not Detected
MDL - Method Detection Limit
Q - Qualifier
J - Result is less than the reporting limit but greater than or equal to the MDL and indicates an approximate value.
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
mg/kg - milligrams per kilogram
NA - Not Applicable
- The concentration exceeds the selected PADEP SHS Non-Residential MSC limit and RFCL.
- The analyte MDL exceeds the SHS or RFCL, however the result is reported as ND.

Table 4 - Groundwater Gauging Data - 2025
49th Street Terminal Site
1700 S 49th Street, Philadelphia, PA 19143

Date	Location	TOCE	TOSE	BOSE	DTP	DTW	SWC	PT	PE	GWE	CGWE	GWAS
8/18/2025	**MW-01**	14.399	7.063	-2.937	-	9.05	8.28	0.00	-	5.35	-	No
9/3/2025	**MW-01**	14.399	7.063	-2.937	-	9.45	7.88	0.00	-	4.95	-	No
10/2/2025	**MW-01**	14.399	7.063	-2.937	-	9.76	7.57	0.00	-	4.64	-	No
8/18/2025	**MW-02**	13.37	5.244	0.244	-	10.06	2.97	0.00	-	3.31	-	No
9/3/2025	**MW-02**	13.37	5.244	0.244	-	10.13	2.90	0.00	-	3.24	-	No
10/2/2025	**MW-02**	13.37	5.244	0.244	-	9.72	3.31	0.00	-	3.65	-	No
8/18/2025	**MW-03**	12.861	5.886	-4.114	-	9.01	7.87	0.00	-	3.85	-	No
9/3/2025	**MW-03**	12.861	5.886	-4.114	-	9.30	7.58	0.00	-	3.56	-	No
10/2/2025	**MW-03**	12.861	5.886	-4.114	-	8.61	8.27	0.00	-	4.25	-	No

NOTES:

All elevations are measured relative to mean sea level (msl).

TOCE	Top of casing elevation (feet msl)	GWE	Groundwater elevation (feet msl) (TOC - DTW)
TOSE	Top of screen elevation (feet msl)	CGWE	Corrected groundwater elevation (feet msl), where
BOSE	Bottom of screen elevation (feet msl)		CGWE = GWE + (PT x (SGP))
DTP	Depth to product from TOC (feet)		SGP = Specific gravity of product (estimated at 0.84)
DTW	Depth to water from TOC (feet)	GWAS	Indicates whether corrected groundwater is at or above the
PT	Apparent product thickness (feet) (DTW - DTP)		elevation of the top of well screen (i.e., yes).
PE	Product elevation (feet msl) (TOC - DTP)	SWC	Standing water column in well (feet)
NG	Not gauged	NS	Not surveyed

Table 5 - Groundwater Sampling Water Quality Parameters
49th Street Terminal Site
1700 S 49th Street, Philadelphia, PA 19143

Date Sampled	Well ID	pH [1]	Specific Conductivity (uS/cm) [2]	REDOX Potential (ORP) (mv) [3]	Dissolved Oxygen (mg/L) [4]	Turbidity (NTU) [5]	Temperature (Degrees Celsius)
Overburden							
9/3/2025	MW-01	6.63	1.100	-131	0.00	1.9	19.07
	MW-02	6.6	1.370	-47	0.00	1.3	20.80
	MW-03	7.52	1.270	-134	5.11	87.0	25.02
10/2/2025	MW-01	6.68	1.260	-149	0.00	2.6	17.69
	MW-02	6.66	1.350	-85	0.00	3.2	18.71
	MW-03	7.04	1.420	-98.0	7.74	55.7	18.81

Notes:

1. Results are in standard pH units

2. uS/cm = microsiemens per centimeter

3. mV = millivolts

4. mg/L = milligrams per liter

5. NTU = nephelometric turbidity unit

Table 6: Groundwater Sampling Results - September 2025
49th Street Terminal Site
1700 S 49th Street, Philadelphia, PA 19143

SAMPLE ID:		PADEP SHS - Non-Residential Used Aquifer Groundwater MSCs	MW-01			MW-01			MW-02			MW-02			DUP-01			DUP-01			MW-03			MW-03		
LAB ID:			L2555497-01			L2555497-01 R1			L2555497-03			L2555497-03 R1			L2555497-04			L2555497-04 R1			L2555497-05			L2555497-05 R1		
COLLECTION DATE:			9/3/2025			9/3/2025			9/3/2025			9/3/2025			9/3/2025			9/3/2025			9/3/2025			9/3/2025		
ANALYTE	CAS		Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Target Compound List Volatile Organic Compounds (VOCs) (ug/L)																										
1,1,1-Trichloroethane	71-55-6	**200**	ND		0.16	-		-	ND		0.16	-		-	ND		0.16	-		-	ND		0.16	-		-
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	**44000**	ND		0.15	-		-	ND		0.15	-		-	ND		0.15	-		-	ND		0.15	-		-
1,1,2-Trichloroethane	79-00-5	**5**	ND		0.14	-		-	ND		0.14	-		-	ND		0.14	-		-	ND		0.14	-		-
1,1-Dichloroethane	75-34-3	**160**	ND		0.21	-		-	ND		0.21	-		-	ND		0.21	-		-	ND		0.21	-		-
1,1-Dichloroethene	75-35-4	**7**	ND		0.17	-		-	ND		0.17	-		-	ND		0.17	-		-	ND		0.17	-		-
1,2,3-Trichlorobenzene	87-61-6	**NA**	ND		0.23	-		-	ND		0.23	-		-	ND		0.23	-		-	ND		0.23	-		-
1,2,4-Trichlorobenzene	120-82-1	**70**	ND		0.22	-		-	ND		0.22	-		-	ND		0.22	-		-	ND		0.22	-		-
1,2-Dibromo-3-chloropropane	96-12-8	**0.2**	ND		0.35	-		-	ND		0.35	-		-	ND		0.35	-		-	ND		0.35	-		-
1,2-Dibromoethane	106-93-4	**0.05**	ND		0.19	-		-	ND		0.19	-		-	ND		0.19	-		-	ND		0.19	-		-
1,2-Dichlorobenzene	95-50-1	**600**	ND		0.18	-		-	ND		0.18	-		-	ND		0.18	-		-	ND		0.18	-		-
1,2-Dichloroethane	107-06-2	**5**	ND		0.13	-		-	ND		0.13	-		-	ND		0.13	-		-	ND		0.13	-		-
1,2-Dichloroethene, Total	540-59-0	**NA**	ND		0.16	-		-	ND		0.16	-		-	ND		0.16	-		-	ND		0.16	-		-
1,2-Dichloropropane	78-87-5	**5**	ND		0.14	-		-	ND		0.14	-		-	ND		0.14	-		-	ND		0.14	-		-
1,3-Dichlorobenzene	541-73-1	**600**	ND		0.19	-		-	ND		0.19	-		-	ND		0.19	-		-	ND		0.19	-		-
1,3-Dichloropropene, Total	542-75-6	**27**	ND		0.14	-		-	ND		0.14	-		-	ND		0.14	-		-	ND		0.14	-		-
1,4-Dichlorobenzene	106-46-7	**75**	ND		0.19	-		-	ND		0.19	-		-	ND		0.19	-		-	ND		0.19	-		-
2-Butanone	78-93-3	**4000**	ND		1.9	-		-	ND		1.9	-		-	ND		1.9	-		-	5		1.9	-		-
2-Hexanone	591-78-6	**260**	ND		0.52	-		-	ND		0.52	-		-	ND		0.52	-		-	ND		0.52	-		-
4-Methyl-2-pentanone	108-10-1	**7800**	ND		0.42	-		-	ND		0.42	-		-	ND		0.42	-		-	ND		0.42	-		-
Acetone	67-64-1	**88000**	12		1.5	-		-	6.8		1.5	-		-	12		1.5	-		-	69		1.5	-		-
Benzene	71-43-2	**5**	0.19	J	0.16	-		-	ND		0.16	-		-	ND		0.16	-		-	3.8		0.16	-		-
Bromochloromethane	74-97-5	**90**	ND		0.15	-		-	ND		0.15	-		-	ND		0.15	-		-	ND		0.15	-		-
Bromodichloromethane	75-27-4	**80**	ND		0.19	-		-	ND		0.19	-		-	ND		0.19	-		-	ND		0.19	-		-
Bromoform	75-25-2	**80**	ND		0.25	-		-	ND		0.25	-		-	ND		0.25	-		-	ND		0.25	-		-
Bromomethane	74-83-9	**10**	ND		0.26	-		-	ND		0.26	-		-	ND		0.26	-		-	ND		0.26	-		-
Carbon disulfide	75-15-0	**6200**	ND		0.3	-		-	ND		0.3	-		-	ND		0.3	-		-	ND		0.3	-		-
Carbon tetrachloride	56-23-5	**5**	ND		0.13	-		-	ND		0.13	-		-	ND		0.13	-		-	ND		0.13	-		-
Chlorobenzene	108-90-7	**100**	ND		0.18	-		-	ND		0.18	-		-	ND		0.18	-		-	ND		0.18	-		-
Chloroethane	75-00-3	**88000**	ND		0.13	-		-	ND		0.13	-		-	ND		0.13	-		-	ND		0.13	-		-
Chloroform	67-66-3	**80**	ND		0.22	-		-	ND		0.22	-		-	ND		0.22	-		-	ND		0.22	-		-
Chloromethane	74-87-3	**30**	ND		0.2	-		-	ND		0.2	-		-	ND		0.2	-		-	ND		0.2	-		-
cis-1,2-Dichloroethene	156-59-2	**70**	ND		0.19	-		-	ND		0.19	-		-	ND		0.19	-		-	ND		0.19	-		-
cis-1,3-Dichloropropene	10061-01-5	**34**	ND		0.14	-		-	ND		0.14	-		-	ND		0.14	-		-	ND		0.14	-		-
Cyclohexane	110-82-7	**53000**	8.3	J	0.27	-		-	0.89	J	0.27	-		-	0.84	J	0.27	-		-	ND		0.27	-		-
Dibromochloromethane	124-48-1	**80**	ND		0.15	-		-	ND		0.15	-		-	ND		0.15	-		-	ND		0.15	-		-
Dichlorodifluoromethane	75-71-8	**1000**	ND		0.24	-		-	ND		0.24	-		-	ND		0.24	-		-	ND		0.24	-		-
Ethylbenzene	100-41-4	**700**	ND		0.17	-		-	ND		0.17	-		-	ND		0.17	-		-	0.29	J	0.17	-		-
Isopropylbenzene	98-82-8	**3500**	14		0.19	-		-	ND		0.19	-		-	ND		0.19	-		-	0.97		0.19	-		-
Methyl Acetate	79-20-9	**97000**	ND		0.23	-		-	ND		0.23	-		-	ND		0.23	-		-	ND		0.23	-		-
Methyl cyclohexane	108-87-2	**NA**	10		0.4	-		-	0.7	J	0.4	-		-	0.64	J	0.4	-		-	ND		0.4	-		-
Methyl tert butyl ether	1634-04-4	**20**	ND		0.17	-		-	ND		0.17	-		-	ND		0.17	-		-	ND		0.17	-		-
Methylene chloride	75-09-2	**5**	ND		0.68	-		-	ND		0.68	-		-	ND		0.68	-		-	ND		0.68	-		-
o-Xylene	95-47-6	**10000**	ND		0.39	-		-	ND		0.39	-		-	ND		0.39	-		-	ND		0.39	-		-
p/m-Xylene	179601-23-1	**10000**	0.4	J	0.33	-		-	ND		0.33	-		-	ND		0.33	-		-	0.55	J	0.33	-		-
Styrene	100-42-5	**100**	ND		0.36	-		-	ND		0.36	-		-	ND		0.36	-		-	ND		0.36	-		-
Tetrachloroethene	127-18-4	**5**	ND		0.18	-		-	ND		0.18	-		-	ND		0.18	-		-	ND		0.18	-		-
Toluene	108-88-3	**1000**	ND		0.2	-		-	ND		0.2	-		-	ND		0.2	-		-	0.3	J	0.2	-		-
Total VOCs		**NA**	44.89	-	-	-	-	-	8.39	-	-	-	-	-	13.48	-	-	-	-	-	79.91	-	-	-	-	-
trans-1,2-Dichloroethene	156-60-5	**100**	ND		0.16	-		-	ND		0.16	-		-	ND		0.16	-		-	ND		0.16	-		-
trans-1,3-Dichloropropene	10061-02-6	**34**	ND		0.16	-		-	ND		0.16	-		-	ND		0.16	-		-	ND		0.16	-		-
Trichloroethene	79-01-6	**5**	ND		0.18	-		-	ND		0.18	-		-	ND		0.18	-		-	ND		0.18	-		-
Trichlorofluoromethane	75-69-4	**2000**	ND		0.16	-		-	ND		0.16	-		-	ND		0.16	-		-	ND		0.16	-		-
Vinyl chloride	75-01-4	**2**	ND		0.07	-		-	ND		0.07	-		-	ND		0.07	-		-	ND		0.07	-		-
Xylenes, Total	1330-20-7	**10000**	0.4	J	0.33	-		-	ND		0.33	-		-	ND		0.33	-		-	0.55	J	0.33	-		-

Table 6: Groundwater Sampling Results - September 2025
49th Street Terminal Site
1700 S 49th Street, Philadelphia, PA 19143

SAMPLE ID:		PADEP SHS - Non-Residential Used Aquifer Groundwater MSCs	MW-01			MW-01			MW-02			MW-02			DUP-01			DUP-01			MW-03			MW-03		
LAB ID:			L2555497-01			L2555497-01 R1			L2555497-03			L2555497-03 R1			L2555497-04			L2555497-04 R1			L2555497-05			L2555497-05 R1		
COLLECTION DATE:			9/3/2025			9/3/2025			9/3/2025			9/3/2025			9/3/2025			9/3/2025			9/3/2025			9/3/2025		
ANALYTE	CAS		Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Target Compound List Volatile Organic Compounds (VOCs) (ug/L)- SIM																										
1,1,2,2-Tetrachloroethane	79-34-5	**4.3**	ND		0.006	-		-	ND		0.006	-		-	ND		0.006	-		-	ND		0.006	-		-
1,4-Dioxane	123-91-1	**27**	ND		1.1	-		-	ND		1.1	-		-	ND		1.1	-		-	ND		1.1	-		-
Total VOCs		**NA**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Target Compound List Semi-Volatile Organic Compounds (ug/L)																										
1,2,4,5-Tetrachlorobenzene	95-94-3	**29**	ND		0.24	ND		0.24	ND		0.24	ND		0.24	ND		0.24	ND		0.24	ND		0.24	ND		0.24
2,3,4,6-Tetrachlorophenol	58-90-2	**2900**	ND		2.2	ND		2.2	ND		2.2	ND		2.2	ND		2.2	ND		2.2	ND		2.2	ND		2.2
2,4,5-Trichlorophenol	95-95-4	**9700**	ND		2.1	ND		2.1	ND		2.1	ND		2.1	ND		2.1	ND		2.1	ND		2.1	ND		2.1
2,4,6-Trichlorophenol	88-06-2	**97**	ND		2.1	ND		2.1	ND		2.1	ND		2.1	ND		2.1	ND		2.1	ND		2.1	ND		2.1
2,4-Dichlorophenol	120-83-2	**20**	ND		1.7	ND		1.7	ND		1.7	ND		1.7	ND		1.7	ND		1.7	ND		1.7	ND		1.7
2,4-Dimethylphenol	105-67-9	**1900**	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
2,4-Dinitrophenol	51-28-5	**190**	ND		5.4	ND		5.4	ND		5.4	ND		5.4	ND		5.4	ND		5.4	ND		5.4	ND		5.4
2,4-Dinitrotoluene	121-14-2	**8.8**	ND		0.54	ND		0.54	ND		0.54	ND		0.54	ND		0.54	ND		0.54	ND		0.54	ND		0.54
2,6-Dinitrotoluene	606-20-2	**1.8**	ND		0.84	ND		0.84	ND		0.84	ND		0.84	ND		0.84	ND		0.84	ND		0.84	ND		0.84
2-Chloronaphthalene	91-58-7	**7800**	ND		0.35	ND		0.35	ND		0.35	ND		0.35	ND		0.35	ND		0.35	ND		0.35	ND		0.35
2-Chlorophenol	95-57-8	**40**	ND		0.65	ND		0.65	ND		0.65	ND		0.65	ND		0.65	ND		0.65	ND		0.65	ND		0.65
2-Methylnaphthalene	91-57-6	**26**	ND		0.37	ND		0.37	ND		0.37	ND		0.37	ND		0.37	ND		0.37	ND		0.37	ND		0.37
2-Methylphenol	95-48-7	**4900**	ND		2.3	ND		2.3	ND		2.3	ND		2.3	ND		2.3	ND		2.3	ND		2.3	ND		2.3
2-Nitroaniline	88-74-4	**0.44**	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
2-Nitrophenol	88-75-5	**780**	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2	ND		2
3,3'-Dichlorobenzidine	91-94-1	**6**	ND		1.8	ND		1.8	ND		1.8	ND		1.8	ND		1.8	ND		1.8	ND		1.8	ND		1.8
3-Methylphenol/4-Methylphenol	108-39-4/106-44-5	**490**	ND		1.4	ND		1.4	ND		1.4	ND		1.4	ND		1.4	ND		1.4	10		1.4	2.6	J	1.4
3-Nitroaniline	99-09-2	**NA**	ND		1.2	ND		1.2	ND		1.2	ND		1.2	ND		1.2	ND		1.2	ND		1.2	ND		1.2
4,6-Dinitro-o-cresol	534-52-1	**NA**	ND		2.3	ND		2.3	ND		2.3	ND		2.3	ND		2.3	ND		2.3	ND		2.3	ND		2.3
4-Bromophenyl phenyl ether	101-55-3	**NA**	ND		0.24	ND		0.24	ND		0.24	ND		0.24	ND		0.24	ND		0.24	ND		0.24	ND		0.24
4-Chloroaniline	106-47-8	**14**	ND		0.47	ND		0.47	ND		0.47	ND		0.47	ND		0.47	ND		0.47	ND		0.47	ND		0.47
4-Chlorophenyl phenyl ether	7005-72-3	**NA**	ND		0.39	ND		0.39	ND		0.39	ND		0.39	ND		0.39	ND		0.39	ND		0.39	ND		0.39
4-Nitroaniline	100-01-6	**140**	ND		1.4	ND		1.4	ND		1.4	ND		1.4	ND		1.4	ND		1.4	ND		1.4	ND		1.4
4-Nitrophenol	100-02-7	**60**	ND		1.4	ND		1.4	ND		1.4	ND		1.4	ND		1.4	ND		1.4	ND		1.4	ND		1.4
Acenaphthene	83-32-9	**3800**	9.1		0.4	6.3		0.4	ND		0.4	ND		0.4	ND		0.4	ND		0.4	1.9	J	0.4	0.84	J	0.4
Acenaphthylene	208-96-8	**5800**	ND		0.32	0.93	J	0.32	ND		0.32	ND		0.32	ND		0.32	ND		0.32	ND		0.32	ND		0.32
Acetophenone	98-86-2	**9700**	ND		0.92	ND		0.92	ND		0.92	ND		0.92	1.2	J	0.92	ND		0.92	ND		0.92	ND		0.92
Anthracene	120-12-7	**66**	2		0.47	1.1	J	0.47	ND		0.47	ND		0.47	ND		0.47	ND		0.47	ND		0.47	ND		0.47
Atrazine	1912-24-9	**3**	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
Benzaldehyde	100-52-7	**NA**	ND		1.1	ND		1.1	ND		1.1	ND		1.1	ND		1.1	ND		1.1	ND		1.1	ND		1.1
Biphenyl	92-52-4	**3.5**	ND		0.2	ND		0.2	ND		0.2	ND		0.2	ND		0.2	ND		0.2	ND		0.2	ND		0.2
Bis(2-chloroethoxy)methane	111-91-1	**290**	ND		0.84	ND		0.84	ND		0.84	ND		0.84	ND		0.84	ND		0.84	ND		0.84	ND		0.84
Bis(2-chloroisopropyl)ether	108-60-1	**300**	ND		0.4	ND		0.4	ND		0.4	ND		0.4	ND		0.4	ND		0.4	ND		0.4	ND		0.4
Bis(2-Ethylhexyl)phthalate	117-81-7	**6**	1.9	J	1.4	2	J	1.4	1.7	J	1.4	2.2	J	1.4	1.8	J	1.4	2	J	1.4	2.8	J	1.4	2.2	J	1.4
Butyl benzyl phthalate	85-68-7	**1400**	ND		2.6	ND		2.6	ND		2.6	ND		2.6	ND		2.6	ND		2.6	ND		2.6	ND		2.6
Caprolactam	105-60-2	**NA**	ND		1.2	ND		1.2	ND		1.2	ND		1.2	ND		1.2	ND		1.2	ND		1.2	ND		1.2
Carbazole	86-74-8	**140**	ND		0.31	ND		0.31	ND		0.31	ND		0.31	ND		0.31	ND		0.31	ND		0.31	ND		0.31
Chrysene	218-01-9	**1.9**	ND		0.22	ND		0.22	ND		0.22	ND		0.22	ND		0.22	ND		0.22	0.4	J	0.22	ND		0.22
Dibenzofuran	132-64-9	**97**	5.2		0.4	3.3		0.4	ND		0.4	ND		0.4	ND		0.4	ND		0.4	0.51	J	0.4	ND		0.4
Diethyl phthalate	84-66-2	**78000**	ND		0.76	ND		0.76	ND		0.76	ND		0.76	ND		0.76	ND		0.76	ND		0.76	ND		0.76
Dimethyl phthalate	131-11-3	**NA**	ND		0.92	ND		0.92	ND		0.92	ND		0.92	ND		0.92	ND		0.92	ND		0.92	ND		0.92
Di-n-butylphthalate	84-74-2	**9700**	11	B	0.96	6.8	B	0.96	9.3	B	0.96	10	B	0.96	8.9	B	0.96	5.9	B	0.96	20	B	0.96	4.3	JB	0.96
Di-n-octylphthalate	117-84-0	**970**	ND		2.3	ND		2.3	ND		2.3	ND		2.3	ND		2.3	ND		2.3	ND		2.3	ND		2.3
Fluoranthene	206-44-0	**260**	1.9	J	0.41	1.1	J	0.41	ND		0.41	ND		0.41	ND		0.41	ND		0.41	0.95	J	0.41	ND		0.41
Fluorene	86-73-7	**1900**	9.5		0.44	6.1		0.44	ND		0.44	ND		0.44	ND		0.44	ND		0.44	1	J	0.44	ND		0.44
Hexachlorobutadiene	87-68-3	**35**	ND		0.36	ND		0.36	ND		0.36	ND		0.36	ND		0.36	ND		0.36	ND		0.36	ND		0.36
Hexachlorocyclopentadiene	77-47-4	**50**	ND		1.2	ND		1.2	ND		1.2	ND		1.2	ND		1.2	ND		1.2	ND		1.2	ND		1.2
Isophorone	78-59-1	**100**	ND		0.86	ND		0.86	ND		0.86	ND		0.86	ND		0.86	ND		0.86	ND		0.86	ND		0.86
Naphthalene	91-20-3	**100**	ND		0.54	0.75	J	0.54	ND		0.54	ND		0.54	ND		0.54	ND		0.54	ND		0.54	ND		0.54
NDPA/DPA	86-30-6	**96**	ND		0.92	ND		0.92	ND		0.92	ND		0.92	ND		0.92	ND		0.92	ND		0.92	ND		0.92
Nitrobenzene	98-95-3	**6.3**	ND		0.2	ND		0.2	ND		0.2	ND		0.2	ND		0.2	ND		0.2	ND		0.2	ND		0.2
p-Chloro-m-cresol	59-50-7	**9700**	ND		0.61	ND		0.61	ND		0.61	ND		0.61	ND		0.61	ND		0.61	ND		0.61	ND		0.61
Phenanthrene	85-01-8	**1100**	5.2		0.42	2.6		0.42	ND		0.42	ND		0.42	ND		0.42	ND		0.42	ND		0.42	ND		0.42
Phenol	108-95-2	**2000**	ND		0.35	ND		0.35	ND		0.35	ND		0.35	ND		0.35	ND		0.35	ND		0.35	ND		0.35
Pyrene	129-00-0	**130**	1.1	J	0.41	0.71	J	0.41	ND		0.41	ND		0.41	ND		0.41	ND		0.41	0.82	J	0.41	ND		0.41
Total SVOCs		**NA**	46.9	-	-	31.69	-	-	11	-	-	12.2	-	-	11.9	-	-	7.9	-	-	38.38	-	-	9.94	-	-

Table 6: Groundwater Sampling Results - September 2025
49th Street Terminal Site
1700 S 49th Street, Philadelphia, PA 19143

SAMPLE ID:		PADEP SHS - Non-Residential Used Aquifer Groundwater MSCs	MW-01			MW-01			MW-02			MW-02			DUP-01			DUP-01			MW-03			MW-03		
LAB ID:			L2555497-01			L2555497-01 R1			L2555497-03			L2555497-03 R1			L2555497-04			L2555497-04 R1			L2555497-05			L2555497-05 R1		
COLLECTION DATE:			9/3/2025			9/3/2025			9/3/2025			9/3/2025			9/3/2025			9/3/2025			9/3/2025			9/3/2025		
ANALYTE	CAS		Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Target Compound List Semi-Volatile Organic Compounds (ug/L)- SIM																										
Benzo(a)anthracene	56-55-3	**3.9**	0.17		0.03	0.12		0.03	ND		0.03	-		-	ND		0.03	-		-	0.15		0.03	-		-
Benzo(a)pyrene	50-32-8	**0.2**	0.07	J	0.02	0.05	J	0.02	ND		0.02	-		-	ND		0.02	-		-	0.12		0.02	-		-
Benzo(b)fluoranthene	205-99-2	**1.2**	0.06		0.03	0.05	J	0.03	ND		0.03	-		-	ND		0.03	-		-	0.15		0.03	-		-
Benzo(ghi)perylene	191-24-2	**0.26**	ND		0.02	ND		0.02	ND		0.02	-		-	ND		0.02	-		-	0.08	J	0.02	-		-
Benzo(k)fluoranthene	207-08-9	**0.55**	ND		0.03	ND		0.03	ND		0.03	-		-	ND		0.03	-		-	0.05	J	0.03	-		-
Bis(2-chloroethyl)ether	111-44-4	**0.76**	ND		0.05	ND		0.05	ND		0.05	-		-	ND		0.05	-		-	ND		0.05	-		-
Dibenzo(a,h)anthracene	53-70-3	**0.6**	ND		0.02	ND		0.02	ND		0.02	-		-	ND		0.02	-		-	ND		0.02	-		-
Hexachlorobenzene	118-74-1	**1**	ND		0.01	ND		0.01	ND		0.01	-		-	ND		0.01	-		-	ND		0.01	-		-
Hexachloroethane	67-72-1	**1**	ND		0.02	ND		0.02	ND		0.02	-		-	ND		0.02	-		-	ND		0.02	-		-
Indeno(1,2,3-cd)pyrene	193-39-5	**2.3**	0.04	J	0.02	ND		0.02	ND		0.02	-		-	ND		0.02	-		-	0.08	J	0.02	-		-
n-Nitrosodi-n-propylamine	621-64-7	**NA**	ND		0.03	ND		0.03	ND		0.03	-		-	ND		0.03	-		-	ND		0.03	-		-
Pentachlorophenol	87-86-5	**1**	0.62	B	0.06	ND		0.06	ND		0.06	-		-	ND		0.06	-		-	ND		0.06	-		-
Total SVOCs		**NA**	0.96	-	-	0.22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.63	-	-	-	-	-
Chlorinated Herbicides (ug/L)																										
2,4-D	94-75-7	**70**	ND		0.498	-		-	ND		0.498	-		-	ND		0.498	-		-	ND		0.498	-		-
2,4,5-T	93-76-5	**70**	ND		0.531	-		-	ND		0.531	-		-	ND		0.531	-		-	ND		0.531	-		-
2,4,5-TP (Silvex)	93-72-1	**50**	ND		0.539	-		-	ND		0.539	-		-	ND		0.539	-		-	ND		0.539	-		-
Pesticides (ug/L)																										
4,4'-DDD	72-54-8	**11**	ND		0.01	-		-	ND		0.01	-		-	ND		0.01	-		-	ND		0.01	-		-
4,4'-DDE	72-55-9	**8**	ND		0.01	-		-	ND		0.01	-		-	ND		0.01	-		-	ND		0.01	-		-
4,4'-DDT	50-29-3	**5.5**	ND		0.024	-		-	ND		0.024	-		-	ND		0.024	-		-	ND		0.024	-		-
Aldrin	309-00-2	**0.16**	ND		0.005	-		-	ND		0.005	-		-	ND		0.005	-		-	ND		0.005	-		-
Alpha-BHC	319-84-6	**0.43**	ND		0.006	-		-	ND		0.006	-		-	ND		0.006	-		-	ND		0.006	-		-
Beta-BHC	319-85-7	**1.5**	ND		0.014	-		-	ND		0.014	-		-	ND		0.014	-		-	ND		0.014	-		-
Chlordane	57-74-9	**2**	ND		0.098	-		-	ND		0.098	-		-	ND		0.098	-		-	ND		0.098	-		-
cis-Chlordane	5103-71-9	**NA**	ND		0.007	-		-	ND		0.007	-		-	ND		0.007	-		-	ND		0.007	-		-
Delta-BHC	319-86-8	**NA**	ND		0.006	-		-	ND		0.006	-		-	ND		0.006	-		-	ND		0.006	-		-
Dieldrin	60-57-1	**0.17**	ND		0.004	-		-	ND		0.004	-		-	ND		0.004	-		-	ND		0.004	-		-
Endosulfan I	959-98-8	**500**	ND		0.005	-		-	ND		0.005	-		-	ND		0.005	-		-	ND		0.005	-		-
Endosulfan II	33213-65-9	**450**	ND		0.008	-		-	ND		0.008	-		-	ND		0.008	-		-	ND		0.008	-		-
Endosulfan sulfate	1031-07-8	**120**	ND		0.007	-		-	ND		0.007	-		-	ND		0.007	-		-	ND		0.007	-		-
Endrin	72-20-8	**2**	ND		0.008	-		-	ND		0.008	-		-	ND		0.008	-		-	ND		0.008	-		-
Endrin aldehyde	7421-93-4	**NA**	ND		0.018	-		-	ND		0.018	-		-	ND		0.018	-		-	ND		0.018	-		-
Endrin ketone	53494-70-5	**NA**	ND		0.014	-		-	ND		0.014	-		-	ND		0.014	-		-	ND		0.014	-		-
Heptachlor	76-44-8	**0.4**	ND		0.005	-		-	ND		0.005	-		-	ND		0.005	-		-	ND		0.005	-		-
Heptachlor epoxide	1024-57-3	**0.2**	ND		0.005	-		-	ND		0.005	-		-	ND		0.005	-		-	ND		0.005	-		-
Lindane	58-89-9	**0.2**	ND		0.005	-		-	ND		0.005	-		-	ND		0.005	-		-	ND		0.005	-		-
Methoxychlor	72-43-5	**40**	ND		0.014	-		-	ND		0.014	-		-	ND		0.014	-		-	ND		0.014	-		-
Toxaphene	8001-35-2	**3**	ND		0.15	-		-	ND		0.15	-		-	ND		0.15	-		-	ND		0.15	-		-
trans-Chlordane	5103-74-2	**NA**	ND		0.011	-		-	ND		0.011	-		-	ND		0.011	-		-	ND		0.011	-		-
Polychlorinated Biphenyls (ug/L)																										
Aroclor 1016	12674-11-2	**6.8**	ND		0.021	-		-	ND		0.021	-		-	ND		0.021	-		-	ND		0.021	-		-
Aroclor 1221	11104-28-2	**1.4**	ND		0.026	-		-	ND		0.026	-		-	ND		0.026	-		-	ND		0.026	-		-
Aroclor 1232	11141-16-5	**1.4**	ND		0.026	-		-	ND		0.026	-		-	ND		0.026	-		-	ND		0.026	-		-
Aroclor 1242	53469-21-9	**1.4**	ND		0.026	-		-	0.072	J	0.026	-		-	ND		0.026	-		-	ND		0.026	-		-
Aroclor 1248	12672-29-6	**1.4**	ND		0.026	-		-	ND		0.026	-		-	ND		0.026	-		-	ND		0.026	-		-
Aroclor 1254	11097-69-1	**1.9**	ND		0.026	-		-	ND		0.026	-		-	ND		0.026	-		-	ND		0.026	-		-
Aroclor 1260	11096-82-5	**1.4**	ND		0.026	-		-	ND		0.026	-		-	ND		0.026	-		-	ND		0.026	-		-
Aroclor 1262	37324-23-5	**NA**	ND		0.026	-		-	ND		0.026	-		-	ND		0.026	-		-	ND		0.026	-		-
Aroclor 1268	11100-14-4	**NA**	ND		0.026	-		-	ND		0.026	-		-	ND		0.026	-		-	ND		0.026	-		-
PCBs, Total	1336-36-3	**0.5**	ND		0.021	-		-	0.072	J	0.021	-		-	ND		0.021	-		-	ND		0.021	-		-

Table 6: Groundwater Sampling Results - September 2025
49th Street Terminal Site
1700 S 49th Street, Philadelphia, PA 19143

SAMPLE ID:		PADEP SHS - Non-Residential Used Aquifer Groundwater MSCs	MW-01			MW-01			MW-02			MW-02			DUP-01			DUP-01			MW-03			MW-03		
LAB ID:			L2555497-01			L2555497-01 R1			L2555497-03			L2555497-03 R1			L2555497-04			L2555497-04 R1			L2555497-05			L2555497-05 R1		
COLLECTION DATE:			9/3/2025			9/3/2025			9/3/2025			9/3/2025			9/3/2025			9/3/2025			9/3/2025			9/3/2025		
ANALYTE	CAS		Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Total Metals (ug/L)																										
Aluminum, Total	7429-90-5	**200**	8.47	J	3.27	-		-	5.93	J	3.27	-		-	6.63	J	3.27	-		-	49.8		3.27	-		-
Antimony, Total	7440-36-0	**6**	ND		0.429	-		-	ND		0.429	-		-	ND		0.429	-		-	ND		0.429	-		-
Arsenic, Total	7440-38-2	**10**	1.412		0.165	-		-	3.507		0.165	-		-	3.267		0.165	-		-	5.318		0.165	-		-
Barium, Total	7440-39-3	**2000**	304.8		0.173	-		-	235		0.173	-		-	226.8		0.173	-		-	516		0.173	-		-
Beryllium, Total	7440-41-7	**4**	ND		0.107	-		-	ND		0.107	-		-	ND		0.107	-		-	ND		0.107	-		-
Cadmium, Total	7440-43-9	**5**	ND		0.0599	-		-	ND		0.0599	-		-	ND		0.0599	-		-	ND		0.0599	-		-
Calcium, Total	7440-70-2	**NA**	208000		39.4	-		-	222000		39.4	-		-	218000		39.4	-		-	193000		39.4	-		-
Chromium, Total	7440-47-3	**100**	0.7374	J	0.178	-		-	0.4941	J	0.178	-		-	0.3097	J	0.178	-		-	0.6824	J	0.178	-		-
Cobalt, Total	7440-48-4	**29**	0.3876	J	0.163	-		-	3.068		0.163	-		-	2.897		0.163	-		-	1.202		0.163	-		-
Copper, Total	7440-50-8	**1000**	ND		0.384	-		-	0.5082	J	0.384	-		-	ND		0.384	-		-	0.5986	J	0.384	-		-
Iron, Total	7439-89-6	**300**	7830		19.1	-		-	14700		19.1	-		-	13600		19.1	-		-	27100		19.1	-		-
Lead, Total	7439-92-1	**5**	ND		0.343	-		-	ND		0.343	-		-	ND		0.343	-		-	2.714		0.343	-		-
Magnesium, Total	7439-95-4	**NA**	28600		24.2	-		-	34400		24.2	-		-	33400		24.2	-		-	24700		24.2	-		-
Manganese, Total	7439-96-5	**300**	1188		0.44	-		-	4219		0.44	-		-	4094		0.44	-		-	2650		0.44	-		-
Mercury, Total	7439-97-6	**2**	ND		0.0915	-		-	ND		0.0915	-		-	ND		0.0915	-		-	ND		0.0915	-		-
Nickel, Total	7440-02-0	**100**	ND		0.556	-		-	6.386		0.556	-		-	6.051		0.556	-		-	1.495	J	0.556	-		-
Potassium, Total	7440-09-7	**NA**	10100		30.9	-		-	8670		30.9	-		-	8250		30.9	-		-	17200		30.9	-		-
Selenium, Total	7782-49-2	**50**	ND		1.73	-		-	ND		1.73	-		-	ND		1.73	-		-	ND		1.73	-		-
Silver, Total	7440-22-4	**100**	ND		0.163	-		-	ND		0.163	-		-	ND		0.163	-		-	ND		0.163	-		-
Sodium, Total	7440-23-5	**NA**	19400		29.3	-		-	77600		29.3	-		-	75900		29.3	-		-	125000		293	-		-
Thallium, Total	7440-28-0	**2**	ND		0.143	-		-	ND		0.143	-		-	ND		0.143	-		-	ND		0.143	-		-
Vanadium, Total	7440-62-2	**490**	ND		1.57	-		-	ND		1.57	-		-	ND		1.57	-		-	ND		1.57	-		-
Zinc, Total	7440-66-6	**2000**	ND		3.41	-		-	239.8		3.41	-		-	230		3.41	-		-	ND		3.41	-		-
General Chemistry (ug/L)																										
Chromium, Hexavalent	18540-29-9	**NA**	ND		3	-		-	ND		3	-		-	ND		3	-		-	ND		3	-		-

Notes:
NA: Not Analyzed
ND: Not Detected
Q: Qualifier
MDL: Method Detection Limit
RL: Reporting Limit
MDL: Method Detection Limit
J: Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value
ug/L : micrograms per liter
SHS MSC - Statewide Health Standard Medium-Specific Concentration
Results are compared to the Pennsylvania Non-Residential Used Aquifer (TDS</=2500) Groundwater MSCs Criteria per SHS effective November 20, 2021; amended June 25, 2024.
Results for Iron were compared to the PADEP Secondary contaminant maximum level (SMCL) of 300 ug/L
- Indicates the concentration exceeds the SHS MSC.
- Indicates the analyte's MDL exceeds the SHS MSC value, however the concentration was reported as ND.

Table 7: Groundwater Sampling Results - October 2025
49th Street Terminal Site
1700 S 49th Street, Philadelphia, PA 19143

SAMPLE ID:		PADEP SHS - Non-Residential Used Aquifer Groundwater MSCs	MW-01			MW-02			DUP-01			MW-03		
LAB ID:			L2562397-01			L2562397-02			L2562397-03			L2562397-04		
COLLECTION DATE:			10/2/2025			10/2/2025			10/2/2025			10/2/2025		
ANALYTE	CAS		Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Target Compound List Volatile Organic Compounds (VOCs) (ug/L)														
1,1,1-Trichloroethane	71-55-6	**200**	ND		0.16	ND		0.16	ND		0.16	ND		0.16
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	**44000**	ND		0.15	ND		0.15	ND		0.15	ND		0.15
1,1,2-Trichloroethane	79-00-5	**5**	ND		0.14	ND		0.14	ND		0.14	ND		0.14
1,1-Dichloroethane	75-34-3	**160**	ND		0.21	ND		0.21	ND		0.21	ND		0.21
1,1-Dichloroethene	75-35-4	**7**	ND		0.17	ND		0.17	ND		0.17	ND		0.17
1,2,3-Trichlorobenzene	87-61-6	**NA**	ND		0.23	ND		0.23	ND		0.23	ND		0.23
1,2,4-Trichlorobenzene	120-82-1	**70**	ND		0.22	ND		0.22	ND		0.22	ND		0.22
1,2-Dibromo-3-chloropropane	96-12-8	**0.2**	ND		0.35	ND		0.35	ND		0.35	ND		0.35
1,2-Dibromoethane	106-93-4	**0.05**	ND		0.19	ND		0.19	ND		0.19	ND		0.19
1,2-Dichlorobenzene	95-50-1	**600**	ND		0.18	ND		0.18	ND		0.18	ND		0.18
1,2-Dichloroethane	107-06-2	**5**	ND		0.13	ND		0.13	ND		0.13	ND		0.13
1,2-Dichloroethene, Total	540-59-0	**NA**	ND		0.16	ND		0.16	ND		0.16	ND		0.16
1,2-Dichloropropane	78-87-5	**5**	ND		0.14	ND		0.14	ND		0.14	ND		0.14
1,3-Dichlorobenzene	541-73-1	**600**	ND		0.19	ND		0.19	ND		0.19	ND		0.19
1,3-Dichloropropene, Total	542-75-6	**27**	ND		0.14	ND		0.14	ND		0.14	ND		0.14
1,4-Dichlorobenzene	106-46-7	**75**	ND		0.19	ND		0.19	ND		0.19	ND		0.19
2-Butanone	78-93-3	**4000**	ND		1.9	ND		1.9	ND		1.9	ND		1.9
2-Hexanone	591-78-6	**260**	ND		0.52	ND		0.52	ND		0.52	ND		0.52
4-Methyl-2-pentanone	108-10-1	**7800**	ND		0.42	ND		0.42	ND		0.42	ND		0.42
Acetone	67-64-1	**88000**	7.3		1.5	4.6	J	1.5	5.3		1.5	12		1.5
Benzene	71-43-2	**5**	0.2	J	0.16	ND		0.16	ND		0.16	10		0.16
Bromochloromethane	74-97-5	**90**	ND		0.15	ND		0.15	ND		0.15	ND		0.15
Bromodichloromethane	75-27-4	**80**	ND		0.19	ND		0.19	ND		0.19	ND		0.19
Bromoform	75-25-2	**80**	ND		0.25	ND		0.25	ND		0.25	ND		0.25
Bromomethane	74-83-9	**10**	ND		0.26	ND		0.26	ND		0.26	ND		0.26
Carbon disulfide	75-15-0	**6200**	ND		0.3	ND		0.3	ND		0.3	ND		0.3
Carbon tetrachloride	56-23-5	**5**	ND		0.13	ND		0.13	ND		0.13	ND		0.13
Chlorobenzene	108-90-7	**100**	ND		0.18	ND		0.18	ND		0.18	ND		0.18
Chloroethane	75-00-3	**88000**	ND		0.13	ND		0.13	ND		0.13	ND		0.13
Chloroform	67-66-3	**80**	ND		0.22	ND		0.22	ND		0.22	ND		0.22
Chloromethane	74-87-3	**30**	ND		0.2	ND		0.2	ND		0.2	ND		0.2
cis-1,2-Dichloroethene	156-59-2	**70**	ND		0.19	ND		0.19	ND		0.19	ND		0.19
cis-1,3-Dichloropropene	10061-01-5	**34**	ND		0.14	ND		0.14	ND		0.14	ND		0.14
Cyclohexane	110-82-7	**53000**	6.1	J	0.27	0.6	J	0.27	0.58	J	0.27	0.59	J	0.27
Dibromochloromethane	124-48-1	**80**	ND		0.15	ND		0.15	ND		0.15	ND		0.15
Dichlorodifluoromethane	75-71-8	**1000**	ND		0.24	ND		0.24	ND		0.24	ND		0.24
Ethylbenzene	100-41-4	**700**	ND		0.17	ND		0.17	ND		0.17	1		0.17
Isopropylbenzene	98-82-8	**3500**	13		0.19	ND		0.19	ND		0.19	3.5		0.19
Methyl Acetate	79-20-9	**97000**	ND		0.23	ND		0.23	ND		0.23	ND		0.23
Methyl cyclohexane	108-87-2	**NA**	6.9	J	0.4	0.4	J	0.4	0.44	J	0.4	0.96	J	0.4
Methyl tert butyl ether	1634-04-4	**20**	ND		0.17	ND		0.17	ND		0.17	ND		0.17
Methylene chloride	75-09-2	**5**	ND		0.68	ND		0.68	ND		0.68	ND		0.68
o-Xylene	95-47-6	**10000**	0.46	J	0.39	ND		0.39	ND		0.39	0.5	J	0.39
p/m-Xylene	179601-23-1	**10000**	0.42	J	0.33	ND		0.33	ND		0.33	1.5		0.33
Styrene	100-42-5	**100**	ND		0.36	ND		0.36	ND		0.36	ND		0.36
Tetrachloroethene	127-18-4	**5**	ND		0.18	ND		0.18	ND		0.18	ND		0.18
Toluene	108-88-3	**1000**	0.2	J	0.2	ND		0.2	ND		0.2	1		0.2
Total VOCs		**NA**	34.58	-	-	5.6	-	-	6.32	-	-	31.26	-	-
trans-1,2-Dichloroethene	156-60-5	**100**	ND		0.16	ND		0.16	ND		0.16	ND		0.16
trans-1,3-Dichloropropene	10061-02-6	**34**	ND		0.16	ND		0.16	ND		0.16	ND		0.16
Trichloroethene	79-01-6	**5**	ND		0.18	ND		0.18	ND		0.18	0.21	J	0.18
Trichlorofluoromethane	75-69-4	**2000**	ND		0.16	ND		0.16	ND		0.16	ND		0.16
Vinyl chloride	75-01-4	**2**	ND		0.07	ND		0.07	ND		0.07	ND		0.07
Xylenes, Total	1330-20-7	**10000**	0.88	J	0.33	ND		0.33	ND		0.33	2	J	0.33

Table 7: Groundwater Sampling Results - October 2025
49th Street Terminal Site
1700 S 49th Street, Philadelphia, PA 19143

SAMPLE ID:		PADEP SHS - Non-Residential Used Aquifer Groundwater MSCs	MW-01			MW-02			DUP-01			MW-03		
LAB ID:			L2562397-01			L2562397-02			L2562397-03			L2562397-04		
COLLECTION DATE:			10/2/2025			10/2/2025			10/2/2025			10/2/2025		
ANALYTE	CAS		Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Target Compound List Volatile Organic Compounds (VOCs) (ug/L)- SIM														
1,1,2,2-Tetrachloroethane	79-34-5	**4.3**	ND		0.006	ND		0.006	ND		0.006	ND		0.006
1,4-Dioxane	123-91-1	**27**	ND		1.1	ND		1.1	ND		1.1	ND		1.1
Total VOCs		**NA**	-	-	-	-	-	-	-	-	-	-	-	-
Target Compound List Semi-Volatile Organic Compounds (ug/L)														
1,2,4,5-Tetrachlorobenzene	95-94-3	**29**	ND		0.24	ND		0.24	ND		0.24	ND		0.24
2,3,4,6-Tetrachlorophenol	58-90-2	**2900**	ND		2.2	ND		2.2	ND		2.2	ND		2.2
2,4,5-Trichlorophenol	95-95-4	**9700**	ND		2.1	ND		2.1	ND		2.1	ND		2.1
2,4,6-Trichlorophenol	88-06-2	**97**	ND		2.1	ND		2.1	ND		2.1	ND		2.1
2,4-Dichlorophenol	120-83-2	**20**	ND		1.7	ND		1.7	ND		1.7	ND		1.7
2,4-Dimethylphenol	105-67-9	**1900**	ND		2	ND		2	ND		2	ND		2
2,4-Dinitrophenol	51-28-5	**190**	ND		5.4	ND		5.4	ND		5.4	ND		5.4
2,4-Dinitrotoluene	121-14-2	**8.8**	ND		0.54	ND		0.54	ND		0.54	ND		0.54
2,6-Dinitrotoluene	606-20-2	**1.8**	ND		0.84	ND		0.84	ND		0.84	ND		0.84
2-Chloronaphthalene	91-58-7	**7800**	ND		0.35	ND		0.35	ND		0.35	ND		0.35
2-Chlorophenol	95-57-8	**40**	ND		0.65	ND		0.65	ND		0.65	ND		0.65
2-Methylnaphthalene	91-57-6	**26**	ND		0.37	ND		0.37	ND		0.37	0.76	J	0.37
2-Methylphenol	95-48-7	**4900**	ND		2.3	ND		2.3	ND		2.3	ND		2.3
2-Nitroaniline	88-74-4	**0.44**	ND		1	ND		1	ND		1	ND		1
2-Nitrophenol	88-75-5	**780**	ND		2	ND		2	ND		2	ND		2
3,3'-Dichlorobenzidine	91-94-1	**6**	ND		1.8	ND		1.8	ND		1.8	ND		1.8
3-Methylphenol/4-Methylphenol	108-39-4/106-44-5	**490**	ND		1.4	ND		1.4	ND		1.4	15		1.4
3-Nitroaniline	99-09-2	**NA**	ND		1.2	ND		1.2	ND		1.2	ND		1.2
4,6-Dinitro-o-cresol	534-52-1	**NA**	ND		2.3	ND		2.3	ND		2.3	ND		2.3
4-Bromophenyl phenyl ether	101-55-3	**NA**	ND		0.24	ND		0.24	ND		0.24	ND		0.24
4-Chloroaniline	106-47-8	**14**	ND		0.47	ND		0.47	ND		0.47	ND		0.47
4-Chlorophenyl phenyl ether	7005-72-3	**NA**	ND		0.39	ND		0.39	ND		0.39	ND		0.39
4-Nitroaniline	100-01-6	**140**	ND		1.4	ND		1.4	ND		1.4	ND		1.4
4-Nitrophenol	100-02-7	**60**	ND		1.4	ND		1.4	ND		1.4	ND		1.4
Acenaphthene	83-32-9	**3800**	8.5		0.4	0.88	J	0.4	0.8	J	0.4	3		0.4
Acenaphthylene	208-96-8	**5800**	ND		0.32	ND		0.32	ND		0.32	ND		0.32
Acetophenone	98-86-2	**9700**	ND		0.92	ND		0.92	ND		0.92	ND		0.92
Anthracene	120-12-7	**66**	1.4	J	0.47	ND		0.47	ND		0.47	ND		0.47
Atrazine	1912-24-9	**3**	ND		1	ND		1	ND		1	ND		1
Benzaldehyde	100-52-7	**NA**	ND		1.1	ND		1.1	ND		1.1	ND		1.1
Biphenyl	92-52-4	**3.5**	ND		0.2	ND		0.2	ND		0.2	ND		0.2
Bis(2-chloroethoxy)methane	111-91-1	**290**	ND		0.84	ND		0.84	ND		0.84	ND		0.84
Bis(2-chloroisopropyl)ether	108-60-1	**300**	ND		0.4	ND		0.4	ND		0.4	ND		0.4
Bis(2-Ethylhexyl)phthalate	117-81-7	**6**	ND		1.4	ND		1.4	ND		1.4	ND		1.4
Butyl benzyl phthalate	85-68-7	**1400**	ND		2.6	ND		2.6	ND		2.6	ND		2.6
Caprolactam	105-60-2	**NA**	ND		1.2	ND		1.2	ND		1.2	ND		1.2
Carbazole	86-74-8	**140**	ND		0.31	ND		0.31	ND		0.31	ND		0.31
Chrysene	218-01-9	**1.9**	ND		0.22	ND		0.22	ND		0.22	ND		0.22
Dibenzofuran	132-64-9	**97**	4.6		0.4	ND		0.4	ND		0.4	0.81	J	0.4
Diethyl phthalate	84-66-2	**78000**	ND		0.76	ND		0.76	ND		0.76	ND		0.76
Dimethyl phthalate	131-11-3	**NA**	ND		0.92	ND		0.92	ND		0.92	ND		0.92
Di-n-butylphthalate	84-74-2	**9700**	ND		0.96	ND		0.96	ND		0.96	ND		0.96
Di-n-octylphthalate	117-84-0	**970**	ND		2.3	ND		2.3	ND		2.3	ND		2.3
Fluoranthene	206-44-0	**260**	1.2	J	0.41	ND		0.41	ND		0.41	0.84	J	0.41
Fluorene	86-73-7	**1900**	9.1		0.44	ND		0.44	ND		0.44	2.1		0.44
Hexachlorobutadiene	87-68-3	**35**	ND		0.36	ND		0.36	ND		0.36	ND		0.36
Hexachlorocyclopentadiene	77-47-4	**50**	ND		1.2	ND		1.2	ND		1.2	ND		1.2
Isophorone	78-59-1	**100**	ND		0.86	ND		0.86	ND		0.86	ND		0.86
Naphthalene	91-20-3	**100**	ND		0.54	ND		0.54	ND		0.54	1.6	J	0.54
NDPA/DPA	86-30-6	**96**	ND		0.92	ND		0.92	ND		0.92	ND		0.92
Nitrobenzene	98-95-3	**6.3**	ND		0.2	ND		0.2	ND		0.2	ND		0.2
p-Chloro-m-cresol	59-50-7	**9700**	ND		0.61	ND		0.61	ND		0.61	ND		0.61
Phenanthrene	85-01-8	**1100**	4.1		0.42	ND		0.42	ND		0.42	1.4	J	0.42
Phenol	108-95-2	**2000**	ND		0.35	ND		0.35	ND		0.35	ND		0.35
Pyrene	129-00-0	**130**	0.71	J	0.41	ND		0.41	ND		0.41	0.7	J	0.41
Total SVOCs		**NA**	29.61	-	-	0.88	-	-	0.8	-	-	26.21	-	-

Table 7: Groundwater Sampling Results - October 2025
49th Street Terminal Site
1700 S 49th Street, Philadelphia, PA 19143

SAMPLE ID:		PADEP SHS - Non-Residential Used Aquifer Groundwater MSCs	MW-01			MW-02			DUP-01			MW-03		
LAB ID:			L2562397-01			L2562397-02			L2562397-03			L2562397-04		
COLLECTION DATE:			10/2/2025			10/2/2025			10/2/2025			10/2/2025		
ANALYTE	CAS		Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Target Compound List Semi-Volatile Organic Compounds (ug/L)- SIM														
Benzo(a)anthracene	56-55-3	**3.9**	ND		0.03	0.09		0.03	ND		0.03	ND		0.03
Benzo(a)pyrene	50-32-8	**0.2**	0.06	J	0.02	ND		0.02	ND		0.02	0.13		0.02
Benzo(b)fluoranthene	205-99-2	**1.2**	0.07		0.03	ND		0.03	ND		0.03	0.16		0.03
Benzo(ghi)perylene	191-24-2	**0.26**	ND		0.02	ND		0.02	ND		0.02	0.09	J	0.02
Benzo(k)fluoranthene	207-08-9	**0.55**	0.04	J	0.03	ND		0.03	ND		0.03	0.06	J	0.03
Bis(2-chloroethyl)ether	111-44-4	**0.76**	ND		0.05	ND		0.05	ND		0.05	ND		0.05
Dibenzo(a,h)anthracene	53-70-3	**0.6**	ND		0.02	ND		0.02	ND		0.02	0.03	J	0.02
Hexachlorobenzene	118-74-1	**1**	ND		0.01	ND		0.01	ND		0.01	ND		0.01
Hexachloroethane	67-72-1	**1**	ND		0.02	ND		0.02	ND		0.02	ND		0.02
Indeno(1,2,3-cd)pyrene	193-39-5	**2.3**	0.04	J	0.02	ND		0.02	ND		0.02	0.09	J	0.02
n-Nitrosodi-n-propylamine	621-64-7	**NA**	ND		0.03	ND		0.03	ND		0.03	ND		0.03
Pentachlorophenol	87-86-5	**1**	0.12		0.06	ND		0.06	ND		0.06	0.09	J	0.06
Total SVOCs		**NA**	0.33	-	-	0.09	-	-	-	-	-	0.65	-	-
Chlorinated Herbicides (ug/L)														
2,4-D	94-75-7	**70**	ND		0.498	ND		0.498	ND		0.498	ND		0.498
2,4,5-T	93-76-5	**70**	ND		0.531	ND		0.531	ND		0.531	ND		0.531
2,4,5-TP (Silvex)	93-72-1	**50**	ND		0.539	ND		0.539	ND		0.539	ND		0.539
Pesticides (ug/L)														
4,4'-DDD	72-54-8	**11**	ND		0.01	ND		0.01	ND		0.01	ND		0.01
4,4'-DDE	72-55-9	**8**	ND		0.01	ND		0.01	ND		0.01	ND		0.01
4,4'-DDT	50-29-3	**5.5**	ND		0.024	ND		0.024	ND		0.024	ND		0.024
Aldrin	309-00-2	**0.16**	ND		0.005	ND		0.005	ND		0.005	ND		0.005
Alpha-BHC	319-84-6	**0.43**	ND		0.006	ND		0.006	ND		0.006	ND		0.006
Beta-BHC	319-85-7	**1.5**	ND		0.014	ND		0.014	ND		0.014	ND		0.014
Chlordane	57-74-9	**2**	ND		0.098	ND		0.098	ND		0.098	ND		0.098
cis-Chlordane	5103-71-9	**NA**	ND		0.007	ND		0.007	ND		0.007	ND		0.007
Delta-BHC	319-86-8	**NA**	ND		0.006	ND		0.006	ND		0.006	ND		0.006
Dieldrin	60-57-1	**0.17**	ND		0.004	ND		0.004	ND		0.004	ND		0.004
Endosulfan I	959-98-8	**500**	ND		0.005	ND		0.005	ND		0.005	ND		0.005
Endosulfan II	33213-65-9	**450**	ND		0.008	ND		0.008	ND		0.008	ND		0.008
Endosulfan sulfate	1031-07-8	**120**	ND		0.007	ND		0.007	ND		0.007	ND		0.007
Endrin	72-20-8	**2**	ND		0.008	ND		0.008	ND		0.008	ND		0.008
Endrin aldehyde	7421-93-4	**NA**	ND		0.018	ND		0.018	ND		0.018	ND		0.018
Endrin ketone	53494-70-5	**NA**	ND		0.014	ND		0.014	ND		0.014	ND		0.014
Heptachlor	76-44-8	**0.4**	ND		0.005	ND		0.005	ND		0.005	ND		0.005
Heptachlor epoxide	1024-57-3	**0.2**	ND		0.005	ND		0.005	ND		0.005	ND		0.005
Lindane	58-89-9	**0.2**	ND		0.005	ND		0.005	ND		0.005	ND		0.005
Methoxychlor	72-43-5	**40**	ND		0.014	ND		0.014	ND		0.014	ND		0.014
Toxaphene	8001-35-2	**3**	ND		0.15	ND		0.15	ND		0.15	ND		0.15
trans-Chlordane	5103-74-2	**NA**	ND		0.011	ND		0.011	ND		0.011	ND		0.011
Polychlorinated Biphenyls (ug/L)														
Aroclor 1016	12674-11-2	**6.8**	ND		0.021	ND		0.021	ND		0.021	ND		0.021
Aroclor 1221	11104-28-2	**1.4**	ND		0.026	ND		0.026	ND		0.026	ND		0.026
Aroclor 1232	11141-16-5	**1.4**	ND		0.026	ND		0.026	ND		0.026	ND		0.026
Aroclor 1242	53469-21-9	**1.4**	ND		0.026	ND		0.026	ND		0.026	ND		0.026
Aroclor 1248	12672-29-6	**1.4**	ND		0.026	ND		0.026	ND		0.026	ND		0.026
Aroclor 1254	11097-69-1	**1.9**	ND		0.026	ND		0.026	ND		0.026	ND		0.026
Aroclor 1260	11096-82-5	**1.4**	ND		0.026	ND		0.026	ND		0.026	ND		0.026
Aroclor 1262	37324-23-5	**NA**	ND		0.026	ND		0.026	ND		0.026	ND		0.026
Aroclor 1268	11100-14-4	**NA**	ND		0.026	ND		0.026	ND		0.026	ND		0.026
PCBs, Total	1336-36-3	**0.5**	ND		0.021	ND		0.021	ND		0.021	ND		0.021

Table 7: Groundwater Sampling Results - October 2025
49th Street Terminal Site
1700 S 49th Street, Philadelphia, PA 19143

SAMPLE ID:		PADEP SHS - Non-Residential Used Aquifer Groundwater MSCs	MW-01			MW-02			DUP-01			MW-03		
LAB ID:			L2562397-01			L2562397-02			L2562397-03			L2562397-04		
COLLECTION DATE:			10/2/2025			10/2/2025			10/2/2025			10/2/2025		
ANALYTE	CAS		Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Total Metals (ug/L)														
Aluminum, Total	7429-90-5	**200**	8.14	J	3.27	8.6	J	3.27	7.7	J	3.27	707		3.27
Antimony, Total	7440-36-0	**6**	ND		0.429	ND		0.429	ND		0.429	1.083	J	0.429
Arsenic, Total	7440-38-2	**10**	1.944		0.165	2.171		0.165	2.265		0.165	5.477		0.165
Barium, Total	7440-39-3	**2000**	327.7		0.173	238.6		0.173	242.3		0.173	538		0.173
Beryllium, Total	7440-41-7	**4**	ND		0.107	ND		0.107	ND		0.107	ND		0.107
Cadmium, Total	7440-43-9	**5**	ND		0.0599	ND		0.0599	ND		0.0599	0.0858	J	0.0599
Calcium, Total	7440-70-2	**NA**	188000		39.4	189000		39.4	190000		39.4	153000		39.4
Chromium, Total	7440-47-3	**100**	1.032		0.178	0.6147	J	0.178	0.6333	J	0.178	3.412		0.178
Cobalt, Total	7440-48-4	**29**	0.5803		0.163	0.8195		0.163	0.8251		0.163	1.975		0.163
Copper, Total	7440-50-8	**1000**	ND		0.384	ND		0.384	0.4691	J	0.384	7.91		0.384
Iron, Total	7439-89-6	**300**	16400		19.1	13900		19.1	14200		19.1	21600		19.1
Lead, Total	7439-92-1	**5**	0.3848	J	0.343	ND		0.343	ND		0.343	50.15		0.343
Magnesium, Total	7439-95-4	**NA**	29000		24.2	30400		24.2	30400		24.2	22100		24.2
Manganese, Total	7439-96-5	**300**	1368		0.44	2974		0.44	2981		0.44	1733		0.44
Mercury, Total	7439-97-6	**2**	ND		0.0915	ND		0.0915	ND		0.0915	0.123	J	0.0915
Nickel, Total	7440-02-0	**100**	ND		0.556	1.872	J	0.556	2.062		0.556	2.768		0.556
Potassium, Total	7440-09-7	**NA**	11700		30.9	8330		30.9	8360		30.9	13800		30.9
Selenium, Total	7782-49-2	**50**	ND		1.73	ND		1.73	ND		1.73	ND		1.73
Silver, Total	7440-22-4	**100**	ND		0.163	ND		0.163	ND		0.163	ND		0.163
Sodium, Total	7440-23-5	**NA**	31000		29.3	44900		29.3	45100		29.3	111000		29.3
Thallium, Total	7440-28-0	**2**	ND		0.143	ND		0.143	ND		0.143	ND		0.143
Vanadium, Total	7440-62-2	**490**	ND		1.57	1.852	J	1.57	1.895	J	1.57	3.396	J	1.57
Zinc, Total	7440-66-6	**2000**	ND		3.41	40.37		3.41	41.05		3.41	31.49		3.41
General Chemistry (ug/L)														
Chromium, Hexavalent	18540-29-9	**NA**	ND		3	ND		3	ND		3	ND		3

Notes:
NA: Not Analyzed
ND: Not Detected
Q: Qualifier
MDL: Method Detection Limit
RL: Reporting Limit
MDL: Method Detection Limit
J: Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value
ug/L : micrograms per liter
SHS MSC - Statewide Health Standard Medium-Specific Concentration
Results are compared to the Pennsylvania Non-Residential Used Aquifer (TDS</=2500) Groundwater MSCs Criteria per SHS effective November 20, 2021; amended June 25, 2024.
Results for Iron were compared to the PADEP Secondary contaminant maximum level (SMCL) of 300 ug/L
- Indicates the concentration exceeds the SHS MSC.
- Indicates the analyte's MDL exceeds the SHS MSC value, however the concentration was reported as ND.