EAST POST ROAD GARAGE SITE

WESTCHESTER COUNTY

WHITE PLAINS, NEW YORK

Remedial Action Work Plan

NYSDEC BCP Number: C360273

Prepared for:

LC Post Road Garage LLC, LC Post Road Garage Holdings LLC, 34 EPR, LLC, East Post Road LLC

5 Renaissance Square

White Plains, New York 10601

34 EPR LLC and East Post Road LLC

41 East Post Road

White Plains, NY 10601

Prepared by:

SESI CONSULTING ENGINEERS

959 ROUTE 46 PARSIPPANY, NEW JERSEY 07050

973.808.9050

FEBRUARY 2026

REVISED MAY 2026

CERTIFICATION STATEMENT

I, Andrew Schweitzer, certify that I am currently a NYS registered professional engineer and that this Remedial Action Work Plan was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and Green Remediation (DER-31).

093718		
NYS Professional Engineer #	Date	Signature

Note: include PE stamp

REMEDIAL ACTION WORK PLAN

TABLE OF CONTENTS

Contents

CERTIFICATION STATEMENT ..... **ii**

REMEDIAL ACTION WORK PLAN ..... **iii**

TABLE OF CONTENTS ..... **iii**

LIST OF ACRONYMS ..... **i**

EXECUTIVE SUMMARY **2**

Site Description/Physical Setting/Site History 2

Summary of the Remedial Investigation 3

Summary of Soil of Contamination 3

Summary of Groundwater Contamination 5

Summary of Soil Vapor Contamination 6

Qualitative Human Health Exposure Assessment 6

Fish and Wildlife Assessment (FWIA) 7

Summary of the Remedy 8

REMEDIAL ACTION WORK PLAN **1**

1.0 INTRODUCTION **1**

1.1 Site Location and Description 2

1.2 Contemplated Redevelopment Plan 2

1.3 Description of Surrounding Property 3

2.0 DESCRIPTION OF REMEDIAL INVESTIGATION FINDINGS **3**

2.1 Summary of Remedial Investigations Performed 4

2.1.1 GPR Survey 4

2.1.2 Borings, Vapor Probes, and Wells 4

2.1.2 Remedial Investigation Samples Collected 5

2.1.3 Chemical Analytical Work Performed 5

2.1.4 Best Management Practices 6

2.2 Summary of Remedial Investigation Results 6

2.2.1 Soil Investigation Results 7
2.2.2 Groundwater Investigation Results 16
2.2.3 Soil Vapor Investigation Results 22
2.2.4 QA/QC Results 22
2.2.5 Date Usability Summary Report 23
2.2.6 Geophysical Investigation Results 23
2.3 Significant Threat 24
2.4 Site History 24
2.4.1 Past Uses and Ownership 24
2.4.2 Phase I and Phase II Reports 30
2.4.2.1 June 2021 Phase I ESA, prepared by Barton & Loguidice, D.P.C. 30
2.4.2.2 January 2026 Phase I Environmental Assessment Report prepared by SESI Consulting Engineers 31
2.4.2.3 March 2017 Subsurface Investigation Report, prepared by HydroEnvironmental Solutions, Inc. for 34 East Post Road (Former Marianina Gas Station) 38
2.3.2.4 2020 and 2022 Remedial Investigations, completed by Woodard & Curran for 34 East Post Road (Former Marianina Gas Station) and part of WPHA Excess Property 39
2.5 Geologic and Hydrogeologic Conditions 46
2.6 Contamination Conditions 48
2.6.1 Conceptual Model of Site Contamination 48
2.6.1.1 Potential Sources of Contamination 48
2.6.1.2 Types of Contaminants and Affected Media 48
2.6.1.3 Potential Contaminant Pathways 49
2.6.1.4 Actual/Potential Human and Environmental Receptors 49
2.6.2 Identification of Standards, Criteria and Guidance 50
2.6.3 Summary of Soil of Contamination 52
2.6.4 Summary of Groundwater Contamination 53
2.6.5 Summary of Soil Vapor Contamination 54
2.7 Environmental and Public Health Assessments 55
2.7.1 Qualitative Human Health Exposure Assessment 55
2.7.2 Fish & Wildlife Remedial Impact Analysis 56

2.8 Remedial Action Objectives....56
2.8.1 Groundwater....56
2.8.2 Soil....57
2.8.5 Soil Vapor....57
3.0 DESCRIPTION OF REMEDIAL ACTION PLAN....58
3.1 Evaluation of Remedial Alternatives....58
3.3 Summary of Selected Preferred Remedial Action....64
4.0 REMEDIAL ACTION PROGRAM....67
4.1 Governing Documents....67
4.1.2 Green and Sustainable Remediation and Climate Resiliency....67
4.1.2 Site Specific Health & Safety Plan (HASP)....68
4.1.3 Quality Assurance Project Plan (QAPP)....68
4.1.5 Soil/Materials Management Plan (SoMP)....68
4.1.6 Storm-Water Pollution Prevention Plan (SWPPP)....69
4.1.7 Community Air Monitoring Plan (CAMP)....69
4.1.8 Contractors Site Operations Plan (SOP)....69
4.1.9 Citizen Participation Plan....69
4.2 General Remedial Construction Information....70
4.2.1 Project Organization....70
4.2.2 Remedial Engineer....70
4.2.3 Remedial Action Construction Schedule....71
4.2.4 Work Hours....72
4.2.5 Site Security....72
4.2.6 Traffic Control....72
4.2.7 Contingency Plan....72
4.2.8 Worker Training and Monitoring....72
4.2.9 Agency Approvals....72
4.2.11 Pre-Construction Meeting with NYSDEC....73
4.2.12 Emergency Contact Information....73
4.2.13 Remedial Action Costs....74
4.3 Site Preparation....74
4.3.1 Mobilization....74

4.3.2 Monitoring Well / Vapor Probe Decommissioning 75
4.3.3 Erosion and Sedimentation Controls....75
4.3.4 Stabilized Construction Entrance(S) 75
4.3.5 Utility Marker and Easements Layout 75
4.3.6 Sheeting and Shoring 75
4.3.7 Equipment and Material Staging....76
4.3.8 Decontamination Area 76
4.3.9 Site Fencing 76
4.3.10 Demobilization....76
4.4 Reporting....77
4.4.1 Daily Reports 77
4.4.2 Monthly Reports....78
4.4.3 OTHER Reporting 78
4.4.4 Complaint Management Plan....79
4.4.5 Deviations from the Remedial Action Work Plan....79
5.0 REMEDIAL ACTION: MATERIAL REMOVAL FROM SITE....79
5.1 Soil Cleanup Objectives 80
5.2 Remedial Performance Evaluation (Post Excavation End-Point Sampling)....80
5.2.1 End-Point Sampling Frequency 80
5.2.2 Groundwater Sampling 81
5.2.3 Soil Vapor....81
5.2.2 Methodology....81
5.2.3 Reporting of Results 81
5.2.4 QA/QC....81
5.2.5 DUSR and EDDs 82
5.2.6 Reporting of End-Point Data in FER 82
5.3 Estimated Material Removal Quantities....82
5.4 Soil/Materials Management Plan 82
5.4.1 Soil Screening Methods....83
5.4.2 Stockpile Methods 83
5.4.3 Materials Excavation and Load Out 83
5.4.4 Materials Transport Off-Site....85

5.4.5 Materials Disposal Off-Site 86
5.4.6 Materials Reuse On-Site....88
5.4.7 Fluids Management 89
5.4.8 Backfill from Off-Site Sources 89
5.4.9 Stormwater Pollution Prevention....90
5.4.10 Contingency Plan 91
5.4.11 Community Air Monitoring Plan 93
5.4.12 Odor, Dust and Nuisance Control Plan 93
5.4.12.1 Odor Control Plan....93
5.4.12.2 Dust Control Plan 94
5.4.12.3 Other Nuisances....95
6.0 RESIDUAL CONTAMINATION....95
7.0 GROUNDWATER TREATMENT 95
7.1 Groundwater Monitoring System....96
7.2 Vapor Barrier 96
8.0 CRITERIA FOR COMPLETION OF REMEDIATION/TERMINATION OF REMEDIAL SYSTEMS....96
8.1 Groundwater Monitoring 96
9.0 INSTITUTIONAL CONTROLS 96
9.1 Environmental Easement 97
9.2 Site Management Plan 98
10.0 FINAL ENGINEERING REPORT 100
10.1 Certifications 101

TABLES

TABLE 4.1 KEY PROJECT PERSONNEL
TABLE 4.2 REMEDIAL ACTION CONSTRUCTION SCHEDULE
TABLE 4.3 AGENCY APPROVALS
TABLE 4.4 EMERGENCY AND CONTACT NUMBERS
TABLE 5.7 VOC EXCEEDANCES IN SOIL

TABLE 12.1 PROJECT SCHEDULE

FIGURES

FIGURE 5.1 SOIL EXCAVATION PLAN AND END-POINT SAMPLING PLAN
FIGURE 5.2 PROPOSED GROUNDWATER SAMPLING PLAN

APPENDICES

APPENDIX A REMEDIAL INVESTIGATION FIGURES
APPENDIX B METES AND BOUNDS SURVEY
APPENDIX C RIR TABLES
APPENDIX D BORING LOGS
APPENDIX E HEALTH AND SAFETY PLAN
APPENDIX F QUALITY ASSURANCE PROJECT PLAN
APPENDIX G COMMUNITY AIR MONITORING PLAN
APPENDIX H CITIZEN PARTICIPATION PLAN
APPENDIX I TYPICAL MONITORING WELL DIAGRAM

LIST OF ACRONYMS

Acronym	Definition
AWQSGV	Class GA Ambient Water Quality Standards and Guidance Values
ELAP	Environmental laboratory Accreditation Program
ESA	Environmental Site Assessment
MSL	Mean Sea Level
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PCB	Polychlorinated Biphenyls
PFAS	Per- and Polyfluoroalkyl Substances
PFOA	Perfluorooctanoic Acid
PFOS	Perfluorooctanesulfonic Acid
PGWSCO	Protection of Groundwater Soil Cleanup Objective
PID	Photoionization Detector
RRSCO	Restricted Residential Soil Cleanup Objective
RSCO	Residential Soil Cleanup Objective
SESI	SESI Consulting Engineers, DPC
SVOC	Semi-Volatile Organic Compound
TAL	Target Analyte List
TCL	Target Compound List

EXECUTIVE SUMMARY

SITE DESCRIPTION/PHYSICAL SETTING/SITE HISTORY

The Site is located in the County of Westchester, White Plains, New York and is identified as 130.27-2-5, 130.27-2-4, 130.27-2-2.1, a portion of 125.83-7-1.1, and the discontinued portion of Brookfield Street north of East Post Road on the White Plains Tax Map. Brookfield Street is a right-of-way with no tax ID. A United States Geological Survey (USGS) topographical quadrangle map (Figure 1.1) shows the Site location. The Site is situated on an approximately 2.342-acre area bounded by the WPHA Winbrook affordable residential apartment buildings to the north, East Post Road followed by White Plains Hospital to the south, Winchester Street followed by commercial buildings to the east, and mixed-use buildings with ground-level retail and upper-level residential apartments to the west (see RIR Figure 1.1 in **Appendix A**). The 2.342-acre property is fully described in the **Appendix B** – Survey Map. A global positioning system coordinate for the starting point is included.

The Site is located in a generally commercial and residential urban downtown area. No surface water bodies are present on or adjacent to the Site; the closest water body is the Bronx River, located approximately 2,000 feet to the northwest. No wetland vegetation or hydric soils were observed, and mapping confirms the Site is not located on or adjacent to state or federal wetlands. As summarized in this report, the White Plains Hospital is located to the south across East Post Road. No other sensitive receptors were identified within the vicinity of the Site.

The Site was formerly occupied by residential properties in the early 1900s. By at least 1930, 26 East Post Road (Former Getty Gas Station) had been developed as a gasoline service station. By the 1950s, 34 East Post Road (Former Marianina Gas Station) was also developed as a gasoline service station, Former 42 East Post Road (Former Medical Supply Building) was improved with the present-day storefront structure, Former 60 East Post Road (Former Firestone Auto Repair Site) was developed as an auto repair facility with the existing building; and the WPHA Excess Property was developed with the present-day parking lot.

SUMMARY OF THE REMEDIAL INVESTIGATION

SESI completed the RI between July 7 and September 22, 2025, in accordance with NYSDEC DER-10 and NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (October 2006 and subsequent updates).

The RI included the following activities:

- A ground-penetrating radar (GPR) survey to identify subsurface utilities, anomalies indicative of underground storage tanks (USTs), and to pre-clear proposed drilling locations;
- Drilling of 87 soil borings and collection of 226 soil samples;
- Installation of 18 temporary monitoring wells and collection of 18 groundwater samples; and
- Installation of seven (7) soil vapor points and collection of seven (7) soil vapor samples

A sample collection summary is included in **RIR Tables 4.1A-C**. **RIR Figures 4.1, 4.2, and 4.3** present the sample locations for soil, groundwater, and soil vapor, respectively. Each component of the RI is summarized in the sections below.

SUMMARY OF SOIL OF CONTAMINATION

For purposes of evaluating the remedial alternatives associated with the proposed Site remediation and redevelopment, the analytical results of the soil samples were compared to the 6 NYCRR Section 375-6.8(a-b) CUSCOs, RRUSCOs, UUSCOs, and PGWSCOs, using the December 31, 2025 updated SCOs.

VOCs

Several VOCs, including 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, acetone, benzene, ethylbenzene, naphthalene, n-butylbenzene, n-propylbenzene, toluene, and total xylenes, were detected at concentrations exceeding their respective CUSCOs, RRUSCOs, UUSCOs and/or PGWSCOs in one or more samples at depths up to 13.0 ft bgs. VOC impacted soils exceeding CUSCOs, RRUSCOs and PGWSCOs extend to 11.0 ft bgs in certain areas. VOC impacted soils exceeding UUSCOs extend to 13.5 ft bgs in certain areas.

SVOCs

Several PAHs, including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, naphthalene, and phenanthrene were detected at concentrations exceeding their respective CUSCOs, RRUSCOs, UUSCOs, and/or PGWSCOs in one or more samples at depths to 12.5 ft bgs. SVOC impacted soils exceeding CUSCOs, RRUSCOs and PGWSCOs extend to 11.0 ft bgs in certain areas. SVOC impacted soils exceeding NYSDEC UUSCOs extend to 12.5 ft bgs in certain areas.

Pesticides

Several pesticides, including 4,4'-DDD, 4,4'-DDE, 4,4'-DDT and Dieldrin, were detected at concentrations exceeding their respective UUSCOs in one or more samples at depths to 11.0 ft bgs.

Metals

Several metals, including arsenic, barium, copper lead, manganese, mercury, nickel and zinc, were detected at concentrations exceeding their respective CUSCOs, RRUSCOs, UUSCOs and/or PGWSCOs in one or more samples at depths to 18.5 ft bgs. Metal impacted soils exceeding the CUSCOs, RRUSCOs, and PGWSCOs extend to 10.0 ft bgs in certain areas. Metal impacted soils exceeding the UUSCOs extend to 18.5 ft bgs in certain areas.

PCBs

One (1) PCB, including Aroclor 1260, was detected at concentrations exceeding the UUSCOs in two (2) samples at depths to 3.0 ft bgs. Aroclor 1260 was detected at a maximum concentration of 0.151 mg/kg in sample SB-35 (0.5-1).

PFAS

PFAS compounds were detected at concentrations exceeding the NY guidance UUSCO for one (1) PFAS compound in soil, PFOS, per the NYSDEC Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances under NYSDEC's Part 375 Remedial Programs, April 2023 (PFAS Guidance).

RIR Tables 5.1 through 5.6 in **Appendix C** shows exceedances from Track 1 UUSCOs for all soil/fill at the Site. RIR Figure 4.1 in **Appendix A** is a spider map that shows the location and summarizes exceedances from Track 1 UUSCOs for all soil/fill.

SUMMARY OF GROUNDWATER CONTAMINATION

For purposes of evaluating the remedial alternatives associated with the proposed Site redevelopment, the constituent concentrations in groundwater were compared to the applicable NYSDEC TOGS Class GA AWQS.

VOCs

Several VOCs, including 1,2,4,5-tetramethylbenzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 2-butanone (MEK), acetone, benzene, ethylbenzene, isopropylbenzene, naphthalene, n-butylbenzene, n-propylbenzene, o-xylene, p/m-xylene and sec-butylbenzene, were detected at concentrations exceeding their respective NYSDEC TOGS Class GA AWQS in one or more samples.

SVOCs

Several SVOCs, including Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl)phthalate, Chrysene, Indeno(1,2,3-cd)pyrene and Naphthalene, were detected at concentrations exceeding their respective NYSDEC TOGS Class GA AWQS in one or more samples.

Pesticides

Pesticides were not detected at concentrations exceeding their respective NYSDEC TOGS Class GA AWQS in any sample.

Total Metals

Several metals, including total arsenic, barium, beryllium, cadmium, chromium, copper, iron, lead, magnesium, manganese, mercury, nickel, selenium, sodium, thallium and zinc, were detected at concentrations exceeding their respective NYSDEC TOGS Class GA AWQS in one or more samples.

PCBs

One (1) PCB, Aroclor 1260, was detected at concentrations exceeding its respective NYSDEC TOGS Class GA AWQS in sample TW-7 at 0.238 ug/l.

PFAS

PFAS species PFOA and PFOS were detected at concentrations exceeding their respective human health criteria of 6.7 ppt and 2.7 ppt, respectively, as provided in the PFAS Guidance for all of the groundwater samples.

A table that indicates exceedances of Class GA Ambient Water Quality Standards (AWQS) in monitoring wells prior to the remedy is shown in RIR Tables 5.13 through 5.18 in **Appendix C**. A spider map that indicates the location(s) of and summarizes exceedances of AWQS prior to the remedy is shown in RIR Figure 4.2 in **Appendix A**.

SUMMARY OF SOIL VAPOR CONTAMINATION

The soil vapor sample results were compared to the applicable NYS SV Guidance - Matrix A-F Soil Vap. Low (NYS SVI GUIDE 2/24) and NYS SV Guidance - Matrix A-F Soil Vap. High (NYS SVI GUIDE 2/24).

Several VOCs, including 2,2,4-trimethylpentane, benzene, cyclohexane, ethylbenzene, heptane, n-hexane, p/m-xylene and tetrachloroethene, were detected at concentrations exceeding the soil vapor screening criteria in Matrices A-F in one or more samples.

A table of soil vapor data collected prior to the remedy is shown in RIR Table 5.24 in **Appendix C**. A spider map that indicates the location(s) of and summarizes soil vapor data prior to the remedy is shown in RIR Figure 4.3 in **Appendix A**. However, as noted above, this will be an open-air garage with no enclosed spaces; therefore, a soil vapor evaluation will not be required.

QUALITATIVE HUMAN HEALTH EXPOSURE ASSESSMENT

The exposure assessment in the RI discussed potential migration routes by which contaminants in the environment may be able to reach human receptors in accordance with NYSDEC DER-10 sections 3.14(c)17, 3.3(c)4 and Appendix 3B. This discussion is based on current and hypothetical future Site conditions.

An exposure assessment must evaluate five (5) elements that comprise an exposure pathway. A complete exposure pathway includes the following:

1. Contaminant source
2. Contaminant transport mechanism

3. Potential exposure point
4. Exposure route
5. Receptor population

Under current conditions, a complete exposure pathway exists for impacted soil and soil vapor if the Site is left unremediated.

Impacted soil is present in unpaved areas at shallow depths but is covered with grass on the Getty Gas Station Site. The exposure pathway for impacted soil to humans is through direct dermal contact with the contaminated soil or by incidental ingestion. This impacted soil area will be fenced in once the project commences and will be removed during future remediation activities associated with Site redevelopment.

Impacted soil vapor is present near existing vacant buildings. The exposure pathway for impacted soil vapor to humans under current conditions is through inhalation of the contaminated soil vapor that may intrude into the enclosed spaces of the existing buildings if they were occupied, but they are vacant. The sources of impacted soil vapor, including impacted soil and groundwater, will be removed during future remediation activities associated with Site redevelopment. Since this will be an open-air garage, a vapor intrusion evaluation will not be needed.

The commingled petroleum plumes originating from 26 East Post Road (Former Getty Gas Station) and 34 East Post Road (Former Marianina Gas Station) are moving in the northern direction onto the WPHA Excess Property that is part of the Site, but the plumes appear to dissipate right before the Site boundary. There are two active 20,000-gallon fuel tanks on the north-adjacent WPHA property that are over 70 years old with a history of tank failures. These USTs present an additional potential source of groundwater and soil vapor contamination in the northern part of the Site. SOE will be required to protect these tanks and also to prevent these tanks from impacting the Site once remediation occurs.

FISH AND WILDLIFE ASSESSMENT (FWIA)

The FWIA in the RIR concluded that the Site does not contain any ecologically sensitive resources or nearby fish or wildlife receptors and hence the Site contamination is not expected to have any impacts on any ecological resources. The closest bodies of water to the Site are the Bronx River, which is approximately 0.409 miles northwest from the Site and Bloomingdale Pond, which is approximately 0.620 miles east from the Site. The Site is not located in a flood zone.

SUMMARY OF THE REMEDY

1. A remedial program will be implemented to provide the details necessary for the construction, operation, optimization, maintenance, and monitoring of the remedial program. Green remediation principles and techniques will be implemented to the extent feasible in the design, implementation, and Site management of the remedy as per DER-31. The major green remediation components are as follows:

    - Considering the environmental impacts of treatment technologies and remedy stewardship over the long term;
    - Reducing direct and indirect greenhouse gases and other emissions;
    - Increasing energy efficiency and minimizing use of non-renewable energy;
    - Conserving and efficiently managing resources and materials;
    - Reducing waste, increasing recycling and increasing reuse of materials which would otherwise be considered a waste;
    - Maximizing habitat value and creating habitat when possible;
    - Fostering green and healthy communities and working landscapes which balance ecological, economic and social goals;
    - Integrating the remedy with the end use where possible and encouraging green and sustainable re-development; and
    - Additionally, to incorporate green remediation principles and techniques to the extent feasible in the future development at this site, any future on-site buildings shall be constructed, at a minimum, to meet the 2020 Energy Conservation Construction Code of New York (or most recent edition) to improve energy efficiency as an element of construction.

    As part of the remedial program, to evaluate the remedy with respect to green and sustainable remediation principles, an environmental footprint analysis will be completed. The environmental footprint analysis will be completed using an accepted environmental footprint analysis calculator such as SEFA (Spreadsheets for Environmental Footprint Analysis, USEPA), SiteWise^{TM} (available in the Sustainable Remediation Forum [SURF] library) or similar Department accepted tool. Water consumption, greenhouse gas emissions, renewable and non-renewable energy use, waste reduction and material use will be estimated, and goals for the project related to these green and sustainable remediation metrics, as well as for minimizing community impacts, protecting habitats and natural and cultural resources, and promoting

environmental justice, will be incorporated into the remedial program, as appropriate. The project will include detailed requirements to achieve the green and sustainable remediation goals. Further, progress with respect to green and sustainable remediation metrics will be tracked during implementation of the remedial action and reported in the Final Engineering Report (FER), including a comparison to the goals established during the remedial program.

Additionally, the remedial program will include a climate change vulnerability assessment, to evaluate the impact of climate change on the project site and the proposed remedy. Potential vulnerabilities associated with extreme weather events (e.g., hurricanes, lightning, heat stress and drought), flooding, and sea level rise will be identified, and the remedial program will incorporate measures to minimize the impact of climate change on potential identified vulnerabilities.

2. Demolition of all remaining on-Site structures and removal of hydraulic lifts at Former 60 East Post Road (Former Firestone Auto Repair Site).
3. Installation of SOE to perform the preferred Track 1 remedial action and which will be designed to prevent off-Site migration emanating from the Site and onto the Site from any other potential sources, including the Brookfield Commons Phase 3 Site (BCP Site No. C360246) and the WPHA two active 20,000-gallon USTs.
4. Excavation of soil/fill exceeding Track 1 UUSCOs.
5. Screening for indications of contamination (by visual means, odor, and monitoring with PID) of all excavated soil during any intrusive Site work.
6. Collection and analysis of end-point samples to evaluate the performance of the remedy with respect to attainment of Track 1 UUSCOs.
7. Appropriate off-Site disposal of all material removed from the Site in accordance with all Federal, State and local rules and regulations for handling, transport, and disposal.
8. To the extent required, import of materials to be used for backfill in compliance with: (1) chemical limits and other specifications included in NYCRR Sections 375-6.7(d) and 375-6.8 (b) and DER-10, (2) all Federal, State and local rules and regulations for handling and transport of material.
9. Dewatering and treatment of contaminated groundwater.

10. In-Situ treatment of residual contaminated groundwater with petroleum hydrocarbon amendments (i.e., PetroFix, or equivalent) mixed into the saturated zone at the bottom of remedial excavation.

11. Replacement of monitoring well network and sampling of groundwater to determine the residual contaminant levels following completion of dewatering operations and placement of petroleum hydrocarbon amendments.

12. In-situ treatment of residual contaminated groundwater with injections unless post-construction sampling concludes that the AWQSGVs or asymptotic levels are met by dewatering and petroleum hydrocarbon amendments.

13. Installation of waterproofing and a vapor barrier under the proposed building's foundation as a green remediation measure as part of the construction project.

14. Site security and traffic control/management.

15. Implementation of erosion and sediment control measures.

16. Recording of an Environmental Easement only to the extent unconditional Track 1 remedy is not accomplished by the time of Certificate of Completion issuance.

17. To the extent required if unconditional Track 1 is not achieved, publication of a Site Management Plan for long term management of residual contamination as required by the Environmental Easement, including plans for: (1) Institutional and Engineering Controls, (2) monitoring, (3) operation and maintenance and (4) reporting.

18. All responsibilities associated with the Remedial Action, including permitting requirements and pretreatment requirements, will be addressed in accordance with all applicable Federal, State and local rules and regulations.

Remedial activities will be performed at the Site in accordance with this NYSDEC-approved RAWP, the previously approved January 2025 RAWP for the Spill Area, and the NYSDEC-issued Decision Document. All deviations from the RAWP and/or Decision Document will be promptly reported to NYSDEC for approval and fully explained in the FER.

REMEDIAL ACTION WORK PLAN

1.0 INTRODUCTION

The Applicants - LC Post Road Garage LLC, LC Post Road Garage Holdings LLC, 34 EPR LLC, and East Post Road LLC - have submitted an application to enter into a Brownfield Cleanup Agreement (BCA) with the New York State Department of Environmental Conservation (NYSDEC), to investigate and remediate a 2.342-acre property located at 26 East Post Road, 34 East Post Road, 42 East Post Road, a portion of the parking lot in the southern part of the White Plains Housing Authority (WPHA) facility at 223-225 Dr. Martin Luther King Jr. Blvd., and a discontinued portion of Brookfield Street north of East Post Road in White Plains, Westchester County, New York (collectively, the "Site" or "BCP Site"). BCA Applicant 34 EPR LLC is a Participant, but will be selling the 34 East Post Road Parcel that it currently owns and is subject to a Consent Order to Applicant East Post Road LLC, a newly formed New York LLC, which will also be acquiring all of the other parcels that make up the BCP Site in the Brownfield Cleanup Program. Applicant LC Post Road Garage LLC, is the Ground Lease Vendee, and LC Post Road Garage Holdings LLC, is the future owner of the garage. The proposed redevelopment will consist of a commercial 9-story parking structure with one level below grade, with a proposed total of 1,975 parking spaces. The parking structure will be directly across East Post Road from the White Plains Hospital, and it is intended to serve the Hospital and WPHA residents, some of whose parking spaces will be temporarily displaced during the project, but whose parking spaces will be part of the new garage. Refer to the Brownfield Cleanup Program (BCP) application for additional details.

This Remedial Action Work Plan (RAWP) summarizes the nature and extent of contamination as determined from data gathered during the Remedial Investigation (RI) performed between July 7 and September 22, 2025. It provides an evaluation of a Track 1 cleanup and other Remedial Action alternatives, their associated costs, and the recommended and preferred remedy. The remedy described in this document is consistent with the procedures defined in DER-10, DER-31, and complies with all applicable standards, criteria and guidance. The remedy described in this document also complies with all applicable Federal, State, and local laws, regulations, and requirements. The NYSDEC and New York State Department of Health (NYSDOH) have not yet determined that this Site does or does not pose a significant threat to human health and the environment. The RI for this Site did not identify fish and wildlife resources.

A formal Remedial Design document will not be prepared because the standard soil excavation and dewatering/in-situ treatment groundwater remedy does not require a separate design work plan from the remedy proposed in this RAWP. With respect to soil vapor, since the bottom of the eastern approximately 2/3 of the proposed parking structure will be below the water table, and the project will involve an open-air garage, design of a mechanical sub-slab depressurization system is not anticipated, nor will a post-construction soil vapor intrusion evaluation be necessary.

1.1 Site Location and Description

The Site is located in the County of Westchester, White Plains, New York and is identified as 130.27-2-5, 130.27-2-4, 130.27-2-2.1, a portion of 125.83-7-1.1, and the discontinued portion of Brookfield Street north of East Post Road on the White Plains Tax Map. Brookfield Street is a right-of-way with no tax ID. A United States Geological Survey (USGS) topographical quadrangle map (Figure 1.1) shows the Site location. The Site is situated on an approximately 2.342-acre area bounded by the WPHA Winbrook affordable residential apartment buildings to the north, East Post Road followed by White Plains Hospital to the south, Winchester Street followed by commercial buildings to the east, and mixed-use buildings with ground-level retail and upper-level residential apartments to the west (see RIR Figure 1.1 in **Appendix A**). The 2.342-acre property is fully described in the **Appendix B** – Survey Map. A global positioning system coordinate for the starting point is included.

1.2 Contemplated Redevelopment Plan

The Remedial Action to be performed under the RAWP is intended to make the Site protective of human health and the environment consistent with the contemplated end use. The proposed redevelopment plan and end use is described here to provide the basis for this assessment. However, the Remedial Action contemplated under this RAWP may be implemented independent of the proposed redevelopment plan.

The proposed redevelopment will consist of a 9-story parking structure with one level below grade, with a total of 1,975 proposed parking spaces. The parking structure will be directly across East Post Road from the White Plains Hospital, and it is intended to serve the Hospital and WPHA residents. Since the garage will be affiliated with the Hospital, it contends that the remediation must strive to achieve a Track 1 remediation to the extent feasible.

1.3 Description of Surrounding Property

The Site is located in a generally commercial and residential urban downtown area. The Site is bound to the north by the rest of the WPHA property (residential), to the south by East Post Road followed by White Plains Hospital, and to the east by Winchester Street followed by commercial properties, and to the west by commercial ground floor properties with upper floor apartments. No surface water bodies are present on or adjacent to the Subject Property; the closest is the Bronx River, located approximately 2,000 feet to the northwest. No wetland vegetation or hydric soils were observed, and mapping confirms the Site is not located on or adjacent to state or federal wetlands. As summarized in this report, the White Plains Hospital is located to the south across East Post Road. No other sensitive receptors were identified within the vicinity of the Site.

2.0 DESCRIPTION OF REMEDIAL INVESTIGATION FINDINGS

SESI completed the RI between July 7 and September 22, 2025, in accordance with NYSDEC DER-10 and NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (October 2006 and subsequent updates).

The RI included the following activities:

- A ground-penetrating radar (GPR) survey to identify subsurface utilities, anomalies indicative of underground storage tanks (USTs), and to pre-clear proposed drilling locations;
- Drilling of 87 soil borings and collection of 226 soil samples;
- Installation of 18 temporary monitoring wells and collection of 18 groundwater samples; and
- Installation of seven (7) soil vapor points and collection of seven (7) soil vapor samples

A sample collection summary is included in **RIR Tables 4.1A-C**. **RIR Figures 4.1, 4.2, and 4.3** present the sample locations for soil, groundwater, and soil vapor, respectively. Each component of the RI is summarized in the sections below.

2.1 Summary of Remedial Investigations Performed

2.1.1 GPR SURVEY

GPR surveys were completed prior to each drilling event to pre-clear proposed drilling locations. AARCO pre-cleared all soil boring locations prior to advancement during the field mobilizations summarized above. In addition, Coastal completed a scan across accessible areas of the site to identify utilities and subsurface anomalies indicative of USTs or other underground structures. One anomaly was found in the WPHA Excess Property. Another previously unknown UST containing 990 gallons of petroleum was also discovered on the 34 East Post Road Site and this petroleum was pumped out of the tank in preparation for Site remediation.

2.1.2 BORINGS, VAPOR PROBES, AND WELLS

Soil Borings

A total of 226 soil samples were collected from 87 soil borings. The borings were advanced by a licensed driller utilizing direct-push methods via a Geoprobe. Borings were advanced to maximum depths of approximately 3 to 20 ft bgs. Soil samples were collected utilizing a macro-core sampler. Where possible, samples for laboratory chemical analyses were collected from each 5 foot interval based on field screening, which includes visual and olfactory observations and screening with photo-ionization detector (PID). The boring logs are provided in **Appendix D**.

Monitoring Wells

A total of 18 groundwater samples were collected from 18 temporary monitoring wells. Each temporary well was constructed with a 1-inch-diameter PVC casing and a screen up to 10 ft installed to the bottom of the borings.

Temporary wells were sampled after purging three well volumes.

Soil Vapor

Seven (7) soil vapor samples were collected from seven (7) temporary soil vapor probes. As depicted on Figure 3.1, sample SV-1 was collected inside the building at Former 42 East Post Road (Former Medical Supply Building) and SV-2 was collected inside the building at Former 60 East Post Road (Former Firestone Auto Repair Site), while remaining samples were collected outside beneath the concrete or asphalt. Each soil vapor probe was installed with an adequate

surface seal to prevent outdoor air infiltration during sampling. Soil vapor probes were installed in paved areas using a direct push Geoprobe® or a hand drill to drill through the surficial asphalt or concrete, as noted in **Table 4.1**. Porous, inert backfill packer sand was used to create a sampling column. The implants were fitted with inert Teflon® tubing to the surface. Soil vapor probes were sealed above the sampling zone with a bentonite slurry.

Prior to sampling, the soil vapor points were purged three (3) times the volume of the sample probe and tube. Flow rates for both purging and collecting were maintained below 0.2 liters per minute to minimize outdoor air infiltration during sampling.

Helium tests were conducted prior to sampling to confirm the integrity of the enclosure and ensure there were no leaks.

Soil vapor samples were collected using 6.0-liter Summa canisters with an 80 ml/min collection rate or 2.7-liter Summa canisters with a 200 ml/min collection rate. All sampling was performed in accordance with the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (October 2006, with updates).

2.1.2 REMEDIAL INVESTIGATION SAMPLES COLLECTED

The RI consisted of advancing 87 soil borings and collection of 226 soil samples, eighteen (18) groundwater samples collected from 18 temporary monitoring wells, and seven (7) sub-slab vapor samples collected from seven (7) temporary vapor points.

2.1.3 CHEMICAL ANALYTICAL WORK PERFORMED

Soil samples were analyzed for the full TCL+30/TAL suite including VOCs (USEPA Method 8260), SVOCs (USEPA Method 8270), PCBs (USEPA Method 8082A), pesticides (USEPA Methods 8081B), and metals (USEPA Methods 6010/7471). A total of 168 samples were also analyzed for PFAS (USEPA Method 1633A) and 1,4 dioxane.

When groundwater recharge was sufficient, groundwater samples were analyzed for the full TCL+30/TAL suite including VOCs (USEPA Method 8260), SVOCs (USEPA Method 8270), PCBs (USEPA Method 8082A), pesticides (USEPA Methods 8081B), and metals (USEPA Methods 6010/7471). Groundwater samples were also analyzed for PFAS (USEPA Method 1633A) and 1,4 dioxane (USEPA Method 8270 SIM). The analyses completed for each sample is summarized in **Table 4.1B**.

Soil vapor samples were analyzed for VOCs by USEPA Method TO-15.

Field Blanks were collected each day sampling was conducted, and trip blanks accompanied all groundwater samples analyzed for VOCs.

A summary of samples collected, and their analysis, is presented on **RIR Tables 1.4A, 4.1B, and 4.1C** in **Appendix C**.

2.1.4 BEST MANAGEMENT PRACTICES

Best management practices (BMPs) implemented at the Site to reduce the environmental footprint of the RI include:

- Use minimally invasive drilling techniques such as direct-push or sonic technology whenever feasible to reduce drilling duration, avoid or minimize use of water, and prevent or reduce generation of cuttings and associated disposal of investigation derived waste.
- Deploy machinery that is suitably sized to increase efficiencies considerably.
- Use machines with repowered or newer engines that are more fuel efficient.
- Implement an engine idle reduction plan to avoid fuel consumption when machinery is not actively engaged.
- Perform routine, on-time maintenance such as oil changes to assure fuel efficiency.
- Select service providers, product suppliers and analytical laboratories from the local area and consolidate the service and delivery schedules.
- Portable vapor/gas detection systems using photoionization or flame ionization for screening purposes.
- Choose groundwater monitoring equipment made of noncorrosive material.
- Compress the number of days needed for a given round of sampling.

2.2 Summary of Remedial Investigation Results

For purposes of evaluating the remedial alternatives associated with the proposed Site redevelopment, the analytical results of the soil samples were compared to the Commercial Use Soil Cleanup Objectives (CUSCOs), Restricted Residential Use Soil Cleanup Objectives (RRUSCOs), Unrestricted Use SCOs (UUSCOs), and Protection of Groundwater Soil Cleanup Objective (PGWSCOs), using the December 31, 2025 updated SCOs. A summary of soil results compared to CUSCOs, RRUSCOs, UUSCOs, and PGWSCOs is presented in the attached **Tables 5.1 through 5.6**. Soil exceedances are presented on **Tables 5.7-5.12** embedded below and on **Figure 4.1**.

The constituent concentrations in groundwater were compared to the applicable NYSDEC Technical and Operations Guidance Series (TOGS) Class GA Ambient Water Quality Standards and Guidance Values (AWQSGVs). A summary of groundwater results compared to AWQSGVs is presented in the attached **Tables 5.13 through 5.18.** Groundwater exceedances are presented on **Tables 5.19-5.23** embedded below and on **Figure 4.2** in the RIR.

The soil vapor data was compared to the NYSDOH Decision Matrices A through F. A summary of soil vapor results compared to the NYSDOH Decision Matrices is presented in the attached **Table 5.24**. Soil Vapor exceedances are presented on **Table 5.25** embedded below and on **Figure 4.3**.

2.2.1 SOIL INVESTIGATION RESULTS

Soil sample analytical results were compared to the CUSCOs, RRUSCOs, UUSCOs, and PGWSCOs, as presented in the attached **Tables 5.1 through 5.6.**

Impacted soils exceeding the CUSCO, RRUSCO, and/or PGWSCOs extend to 11.0 ft bgs in certain areas. Impacted soils exceeding the UUSCOs extend to 18.5 ft bgs in certain areas.

VOCs

As shown in **Table 5.7** below and **Figure 4.1**, the VOCs listed below were detected at concentrations exceeding their respective CUSCOs, RRUSCOs, UUSCOs, and/or PGWSCOs in one or more samples at depths to 13.5 ft bgs. Impacts were generally identified to be present |Site-wide with most notable petroleum concentrations identified in and around the former gas stations as well as to the north (downgradient) of the gas stations.

VOC impacts:

- 1,2,4-Trimethylbenzene was detected above SCOs in 18 samples, with a maximum concentration of 340 mg/kg in sample SB-24 (10.5-11)
- 1,3,5-Trimethylbenzene was detected above SCOs in 9 samples, with a maximum concentration of 120 mg/kg in sample SB-34 (10.5-11)
- Acetone was detected above SCOs in 12 samples, with a maximum concentration of 0.28 mg/kg in sample SB-2 (7.5-8.0)
- Benzene was detected above SCOs in three (3) samples, with a maximum concentration of 0.73 mg/kg in sample SB-1 (2.0-2.5)
- Ethylbenzene was detected above SCOs in eight (8) samples, with a maximum concentration of 78 mg/kg in sample SB-34 (10.5-11)

- Naphthalene was detected above SCOs in five (5) samples, with a maximum concentration of 40 mg/kg in sample SB-34 (10.5-11)
- N-Butylbenzene was detected above SCOs in one (1) sample, with a maximum concentration of 37 mg/kg in sample SB-34 (10.5-11)
- N-Propylbenzene was detected above SCOs in nine (9) samples, with a maximum concentration of 110 mg/kg in sample SB-34 (10.5-11)
- Toluene was detected above SCOs in two (2) samples, with a maximum concentration of 2.7 mg/kg in sample SB-1 (2.0-2.5)
- Total xylenes were detected above SCOs in 15 samples, with a maximum concentration of 110 mg/kg in sample SB-28 (8-8.5)

VOC exceedances compared to NYSDEC CUSCOs, RRUSCOs, UUSCOs, and PGWSCOs are presented in **Table 5.7** below.

TABLE 5.7 VOC EXCEEDANCES IN SOIL (mg/kg)

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-1 (2.0-2.5)		SB-2 (7.5-8.0)		SB-3 (7.5-8.0)		SB-3 (7.5-8.0)		SB-3 (10.0-10.5)	
LAB SAMPLE ID:							L2543726-10		L2543726-09		L2543856-02		L2543856-02 R1		L2542207-03	
SAMPLE DATE:							7/11/2025		7/11/2025		7/14/2025		7/14/2025		7/7/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
VOCs (SW846 8260D)																
1,2,4-Trimethylbenzene	95-63-6	mg/kg	5.9	100	500	5.9	1.1		3.9		93		90	E	14	
1,3,5-Trimethylbenzene	108-67-8	mg/kg	3.1	100	500	3.1	0.28		1.1		34		-		3.7	
Acetone	67-64-1	mg/kg	0.03	100	500	0.03	0.62	U	0.28	J	2	U	-		0.58	U
Benzene	71-43-2	mg/kg	0.06	3.7	20	0.06	0.73		0.026	U	0.1	U	-		0.029	U
Ethylbenzene	100-41-4	mg/kg	1	76	390	1	0.91		0.58		2.1		-		0.99	
Naphthalene	91-20-3	mg/kg	12	100	500	12	0.6		0.73		5.2		-		1.9	
n-Butylbenzene	104-51-8	mg/kg	18	100	500	18	0.12		0.26		8.2		-		1.3	
n-Propylbenzene	103-65-1	mg/kg	5	100	500	5	0.25		0.61		29		-		2.9	
Toluene	108-88-3	mg/kg	0.7	100	500	0.7	2.7		0.051	U	0.2	U	-		0.058	U
Xylene (total)	1330-20-7	mg/kg	0.26	100	500	1.2	4.6		2		3	J	-		1.8	J

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-5 (12.5-13.0)		SB-6 (10.5-11.0)		SB-6 (10.5-11.0)		SB-13 (5.0-5.5)		SB-23 (1-1.5)	
LAB SAMPLE ID:							L2542207-05		L2542207-06		L2542207-06 R1		L2542974-01		L2547611-04	
SAMPLE DATE:							7/7/2025		7/7/2025		7/7/2025		7/9/2025		7/29/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
VOCs (SW846 8260D)																
1,2,4-Trimethylbenzene	95-63-6	mg/kg	5.9	100	500	5.9	0.00099	J	41		60	E	0.0023	U	0.0023	U
1,3,5-Trimethylbenzene	108-67-8	mg/kg	3.1	100	500	3.1	0.00027	J	16		-		0.0023	U	0.0023	U
Acetone	67-64-1	mg/kg	0.03	100	500	0.03	0.054		0.62	U	-		0.06		0.061	
Benzene	71-43-2	mg/kg	0.06	3.7	20	0.06	0.00047	U	0.016	J	-		0.0014		0.00057	U
Ethylbenzene	100-41-4	mg/kg	1	76	390	1	0.00094	U	13		-		0.0011	U	0.0011	U
Naphthalene	91-20-3	mg/kg	12	100	500	12	0.0023	J	9.2		-		0.0046	U	0.0046	U
n-Butylbenzene	104-51-8	mg/kg	18	100	500	18	0.016		4.1		-		0.0011	U	0.0011	U
n-Propylbenzene	103-65-1	mg/kg	5	100	500	5	0.002		9.6		-		0.0011	U	0.0011	U
Toluene	108-88-3	mg/kg	0.7	100	500	0.7	0.00094	U	0.26		-		0.0011	U	0.0011	U
Xylene (total)	1330-20-7	mg/kg	0.26	100	500	1.2	0.00094	U	52		-		0.0011	U	0.0011	U

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-23 (5.5-6)		SB-24 (3.5-4)		SB-27 (3-3.5)		SB-27 (7-7.5)		SB-28 (8-8.5)	
LAB SAMPLE ID:							L2547611-03		L2547611-08		L2547764-12		L2547764-14		L2547764-10	
SAMPLE DATE:							7/29/2025		7/29/2025		7/30/2025		7/30/2025		7/30/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
VOCs (SW846 8260D)																
1,2,4-Trimethylbenzene	95-63-6	mg/kg	5.9	100	500	5.9	0.0027	U	0.0022	U	3.2		0.27		44	
1,3,5-Trimethylbenzene	108-67-8	mg/kg	3.1	100	500	3.1	0.0027	U	0.0022	U	1.5		0.091		13	
Acetone	67-64-1	mg/kg	0.03	100	500	0.03	0.27		0.05		0.65	U	0.029		1.1	U
Benzene	71-43-2	mg/kg	0.06	3.7	20	0.06	0.00035	J	0.00056	U	0.59		0.0049		0.053	U
Ethylbenzene	100-41-4	mg/kg	1	76	390	1	0.0013	U	0.0011	U	0.79		0.089		21	
Naphthalene	91-20-3	mg/kg	12	100	500	12	0.0054	U	0.0045	U	2.4		0.062		9.3	
n-Butylbenzene	104-51-8	mg/kg	18	100	500	18	0.0013	U	0.0011	U	0.47		0.018		2.1	
n-Propylbenzene	103-65-1	mg/kg	5	100	500	5	0.0013	U	0.0011	U	0.92		0.05		6.3	
Toluene	108-88-3	mg/kg	0.7	100	500	0.7	0.0013	U	0.0011	U	0.09		0.012		1.8	
Xylene (total)	1330-20-7	mg/kg	0.26	100	500	1.2	0.0013	U	0.0011	U	1.4	J	0.36		110	

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-28 (8-8.5)		SB-28 (10-10.5)		SB-30 (7.5-8)		SB-31 (9.5-10)		SB-31 (9.5-10)	
LAB SAMPLE ID:							L2547764-10 R1		L2547764-11		L2548308-08		L2548308-12		L2548308-12 R1	
SAMPLE DATE:							7/30/2025		7/30/2025		7/31/2025		7/31/2025		7/31/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
VOCs (SW846 8260D)																
1,2,4-Trimethylbenzene	95-63-6	mg/kg	5.9	100	500	5.9	38	E	0.031		0.69	E	110	E	130	
1,3,5-Trimethylbenzene	108-67-8	mg/kg	3.1	100	500	3.1	-		0.013		0.34	E	0.69	U	-	
Acetone	67-64-1	mg/kg	0.03	100	500	0.03	-		0.018		0.01	U	3.4	U	-	
Benzene	71-43-2	mg/kg	0.06	3.7	20	0.06	-		0.064		0.0002	J	0.17	U	-	
Ethylbenzene	100-41-4	mg/kg	1	76	390	1	-		0.016		0.078		0.18	J	-	
Naphthalene	91-20-3	mg/kg	12	100	500	12	-		0.031		0.16		3.4		-	
n-Butylbenzene	104-51-8	mg/kg	18	100	500	18	-		0.003		0.083		13		-	
n-Propylbenzene	103-65-1	mg/kg	5	100	500	5	-		0.015		0.19		34		-	
Toluene	108-88-3	mg/kg	0.7	100	500	0.7	-		0.01		0.001	U	0.34	U	-	
Xylene (total)	1330-20-7	mg/kg	0.26	100	500	1.2	-		0.12		0.36		0.34	U	-	

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-31 (10.5-11)		SB-33 (4-4.5)		SB-34 (2.5-3)		SB-34 (7-7.5)		SB-34 (7-7.5)	
LAB SAMPLE ID:							L2548308-11		L2548308-16		L2548308-04		L2548308-05		L2548308-05 R1	
SAMPLE DATE:							7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
VOCs (SW846 8260D)																
1,2,4-Trimethylbenzene	95-63-6	mg/kg	5.9	100	500	5.9	7.8		0.00064	J	0.0096		130	E	160	
1,3,5-Trimethylbenzene	108-67-8	mg/kg	3.1	100	500	3.1	0.11	U	0.00063	J	0.0025		38		-	
Acetone	67-64-1	mg/kg	0.03	100	500	0.03	0.56	U	0.11		0.1		3	U	-	
Benzene	71-43-2	mg/kg	0.06	3.7	20	0.06	0.028	U	0.0003	J	0.0086		0.15	U	-	
Ethylbenzene	100-41-4	mg/kg	1	76	390	1	0.022	J	0.00033	J	0.18		32		-	
Naphthalene	91-20-3	mg/kg	12	100	500	12	0.64		0.0046	U	0.16		14		-	
n-Butylbenzene	104-51-8	mg/kg	18	100	500	18	2.5		0.0025		0.044		8.4		-	
n-Propylbenzene	103-65-1	mg/kg	5	100	500	5	4		0.0016		0.062		27		-	
Toluene	108-88-3	mg/kg	0.7	100	500	0.7	0.056	U	0.0012	U	0.0017		0.3	U	-	
Xylene (total)	1330-20-7	mg/kg	0.26	100	500	1.2	0.056	U	0.0012	U	0.02		49		-	

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-34 (10.5-11)		SB-34 (10.5-11)		SB-36 (8-9)		SB-36 (8-9)		SB-70 (9-10)	
LAB SAMPLE ID:							L2548308-06		L2548308-06 R1		L2548397-01		L2548397-01 R1		L2551038-06	
SAMPLE DATE:							7/31/2025		7/31/2025		8/1/2025		8/1/2025		8/13/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
VOCs (SW846 8260D)																
1,2,4-Trimethylbenzene	95-63-6	mg/kg	5.9	100	500	5.9	310		340	E	120		80	E	110	E
1,3,5-Trimethylbenzene	108-67-8	mg/kg	3.1	100	500	3.1	120		-		25		-		41	E
Acetone	67-64-1	mg/kg	0.03	100	500	0.03	6.2	U	-		2.6	U	-		0.37	J
Benzene	71-43-2	mg/kg	0.06	3.7	20	0.06	0.31	U	-		0.043	J	-		0.028	U
Ethylbenzene	100-41-4	mg/kg	1	76	390	1	78		-		27		-		22	E
Naphthalene	91-20-3	mg/kg	12	100	500	12	40		-		12		-		25	E
n-Butylbenzene	104-51-8	mg/kg	18	100	500	18	37		-		9.4		-		7.3	
n-Propylbenzene	103-65-1	mg/kg	5	100	500	5	110		-		19		-		29	E
Toluene	108-88-3	mg/kg	0.7	100	500	0.7	0.62	U	-		0.18	J	-		0.057	U
Xylene (total)	1330-20-7	mg/kg	0.26	100	500	1.2	77		-		72		-		87	

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-70 (9-10)		SB-77(9.0-9.5)		SB-80(4.0-4.5)		SB-80(8.5-9.0)		SB-89(2.5-3.0)	
LAB SAMPLE ID:							L2551038-06 R1		JE18629-2		JE18629-4		JE18629-5		JE18798-5	
SAMPLE DATE:							8/13/2025		9/8/2025		9/8/2025		9/8/2025		9/10/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
VOCs (SW846 8260D)																
1,2,4-Trimethylbenzene	95-63-6	mg/kg	5.9	100	500	5.9	150		-		-		-		-	
1,3,5-Trimethylbenzene	108-67-8	mg/kg	3.1	100	500	3.1	41		-		-		-		-	
Acetone	67-64-1	mg/kg	0.03	100	500	0.03	-		10.7	J	0.102		0.62	U	0.118	
Benzene	71-43-2	mg/kg	0.06	3.7	20	0.06	-		0.00053	U	0.00057	U	0.031	U	0.00057	U
Ethylbenzene	100-41-4	mg/kg	1	76	390	1	22		0.114		0.0053		0.368		0.0011	U
Naphthalene	91-20-3	mg/kg	12	100	500	12	24		-		-		-		-	
n-Butylbenzene	104-51-8	mg/kg	18	100	500	18	-		-		-		-		-	
n-Propylbenzene	103-65-1	mg/kg	5	100	500	5	31		-		-		-		-	
Toluene	108-88-3	mg/kg	0.7	100	500	0.7	-		0.0011	U	0.0011	U	0.062	U	0.0011	U
Xylene (total)	1330-20-7	mg/kg	0.26	100	500	1.2	-		7.04		0.0011	U	0.863		0.0011	U

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-89(6.5-7.0)		SB-90(13-13.5)		SB-91(7.0-7.5)	
LAB SAMPLE ID:							JE18798-6		JE18796-3		JE18796-5	
SAMPLE DATE:							9/10/2025		9/10/2025		9/10/2025	
MATRIX:							SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q
VOCs (SW846 8260D)												
1,2,4-Trimethylbenzene	95-63-6	mg/kg	5.9	100	500	5.9	-		-		-	
1,3,5-Trimethylbenzene	108-67-8	mg/kg	3.1	100	500	3.1	-		-		-	
Acetone	67-64-1	mg/kg	0.03	100	500	0.03	0.0339		0.0327		0.0421	
Benzene	71-43-2	mg/kg	0.06	3.7	20	0.06	0.00053	U	0.00051	U	0.00055	U
Ethylbenzene	100-41-4	mg/kg	1	76	390	1	0.0011	U	0.001	U	0.0023	
Naphthalene	91-20-3	mg/kg	12	100	500	12	-		-		-	
n-Butylbenzene	104-51-8	mg/kg	18	100	500	18	-		-		-	
n-Propylbenzene	103-65-1	mg/kg	5	100	500	5	-		-		-	
Toluene	108-88-3	mg/kg	0.7	100	500	0.7	0.0011	U	0.001	U	0.0011	U
Xylene (total)	1330-20-7	mg/kg	0.26	100	500	1.2	0.0011	U	0.001	U	0.0108	

SVOCs

Several PAHs, including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, naphthalene, and phenanthrene were detected at concentrations exceeding their respective CUSCOs, RRUSCOs, UUSCOs and/or PGWSCOs in one or more samples at depths to 12.5 ft bgs. SVOC impacted soils exceeding CUSCOs, RRUSCOs, and PGWSCOs extend to 11.0 ft bgs in certain areas. SVOC impacted soils exceeding UUSCOs extend to 12.5 ft bgs in certain areas. SVOC impacts (particularly PAHs) were present throughout the Site.

- Benzo(a)anthracene was detected above SCOs in eight (8) samples, at a maximum concentration of 10.0 mg/kg in sample SB-6 (10.5-11.0).
- Benzo(a)pyrene was detected above SCOs in eight (8) samples, at a maximum concentration of 8.5 mg/kg in sample SB-6 (10.5-11.0).
- Benzo(b)fluoranthene was detected above SCOs in ten (10) samples, at a maximum concentration of 12 mg/kg in sample SB-6 (10.5-11.0).
- Benzo(g,h,i)perylene was detected above SCOs in seven (7) samples at a maximum concentration of 3.5 mg/kg in sample SB-6 (10.5-11.0).
- Benzo(k)fluoranthene was detected above SCOs in three (3) samples at a maximum concentration of 2.6 mg/kg in sample SB-6 (10.5-11.0).
- Chrysene was detected above SCOs in eight (8) samples, at a maximum concentration of 8.9 mg/kg in sample SB-6 (10.5-11.0).
- Dibenzo(a,h)anthracene was detected above SCOs in four (4) samples, at a maximum concentration of 1.2 mg/kg in sample SB-6 (10.5-11.0).
- Indeno(1,2,3-cd)pyrene was detected above SCOs in eight (8) samples, at a maximum concentration of 4.3 mg/kg in sample SB-6 (10.5-11.0).
- Naphthalene was detected above SCOs in five (5) samples, at a maximum concentration of 46 mg/kg in sample SB-2 (12.0-12.5).
- Phenanthrene was detected above SCOs in seven (7) samples, at a maximum concentration of 6.2 mg/kg in sample SB-14 (3.5-4.0).

SVOC exceedances compared to CUSCOs, RRUSCOs, UUSCOs, and PGWSCOs are presented in Table 5.8 below.

TABLE 5.8 SVOC EXCEEDANCES IN SOIL (mg/kg)

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-2 (12.0-12.5)		SB-2 (12.0-12.5)		SB-6 (10.5-11.0)		SB-6 (10.5-11.0)		SB-13 (5.0-5.5)	
LAB SAMPLE ID:							L2542974-07		L2542974-07 R1		L2542974-11		L2542974-11 R1		L2542974-01	
SAMPLE DATE:							7/9/2025		7/9/2025		7/9/2025		7/9/2025		7/9/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
SVOCs (SW846 8270E)																
Benzo(a)anthracene	56-55-3	mg/kg	1	1.4	37	1	0.043	J	-		8.1	E	10		0.51	J
Benzo(a)pyrene	50-32-8	mg/kg	1	1	3.7	22	0.15	U	-		7.1	E	8.5		0.5	J
Benzo(b)fluoranthene	205-99-2	mg/kg	1	1.4	37	2.1	0.042	J	-		10	E	12		0.73	
Benzo(g,h,i)perylene	191-24-2	mg/kg	0.64	4.9	47	1000	0.026	J	-		3.5		-		0.39	J
Benzo(k)fluoranthene	207-08-9	mg/kg	0.8	4.9	47	2	0.11	U	-		2.6		-		0.27	J
Chrysene	218-01-9	mg/kg	1	4.9	47	1	0.042	J	-		7.9	E	8.9		0.82	
Dibenzo(a,h)anthracene	53-70-3	mg/kg	0.33	0.33	3.7	1000	0.11	U	-		1.2		-		0.56	U
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0.5	1.4	37	6.6	0.15	U	-		4.3		-		0.39	J
Naphthalene	91-20-3	mg/kg	12	100	500	12	27	E	46		0.17	U	-		0.94	U
Phenanthrene	85-01-8	mg/kg	1.1	4.9	47	1000	0.15		-		0.82		-		1.8	

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-14 (3.5-4.0)		SB-34 (2.5-3)		SB-34 (7-7.5)		SB-56 (1-2)		SB-57 (1-2)	
LAB SAMPLE ID:							L2542974-02		L2548308-04		L2548308-05 R1		L2550665-01		L2550665-04	
SAMPLE DATE:							7/9/2025		7/31/2025		7/31/2025		8/12/2025		8/12/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
SVOCs (SW846 8270E)																
Benzo(a)anthracene	56-55-3	mg/kg	1	1.4	37	1	2.6		1.1		-		1.9		0.68	
Benzo(a)pyrene	50-32-8	mg/kg	1	1	3.7	22	3.2		0.73		-		1.9		0.77	
Benzo(b)fluoranthene	205-99-2	mg/kg	1	1.4	37	2.1	4.7		1.3		-		2.9		1	
Benzo(g,h,i)perylene	191-24-2	mg/kg	0.64	4.9	47	1000	2.4		0.55		-		1.3		0.54	
Benzo(k)fluoranthene	207-08-9	mg/kg	0.8	4.9	47	2	1.4		0.5	J	-		0.67		0.32	
Chrysene	218-01-9	mg/kg	1	4.9	47	1	4		1.1		-		1.8		0.68	
Dibenzo(a,h)anthracene	53-70-3	mg/kg	0.33	0.33	3.7	1000	0.58		0.12		-		0.28		0.13	
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0.5	1.4	37	6.6	2.5		0.44		-		1.4		0.57	
Naphthalene	91-20-3	mg/kg	12	100	500	12	0.21		0.57		15		0.14	J	0.066	J
Phenanthrene	85-01-8	mg/kg	1.1	4.9	47	1000	6.2		0.99		-		1.2		0.81	

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-62 (4-5)		SB-63 (2-3)		SB-66 (0.5-1.5)		SB-70 (9-10)		SB-70 (9-10)	
LAB SAMPLE ID:							L2550665-14		L2553571-01		L2553509-01		L2551038-06		L2551038-06 R1	
SAMPLE DATE:							8/12/2025		8/12/2025		8/13/2025		8/13/2025		8/13/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
SVOCs (SW846 8270E)																
Benzo(a)anthracene	56-55-3	mg/kg	1	1.4	37	1	0.82		2		4.6		0.11	U	-	
Benzo(a)pyrene	50-32-8	mg/kg	1	1	3.7	22	1.5		2		4.6		0.15	U	-	
Benzo(b)fluoranthene	205-99-2	mg/kg	1	1.4	37	2.1	2		3.1		6.5		0.11	U	-	
Benzo(g,h,i)perylene	191-24-2	mg/kg	0.64	4.9	47	1000	1.5		1.4		3.1		0.15	U	-	
Benzo(k)fluoranthene	207-08-9	mg/kg	0.8	4.9	47	2	0.48		0.7		1.7		0.11	U	-	
Chrysene	218-01-9	mg/kg	1	4.9	47	1	1		2		4.3		0.11	U	-	
Dibenzo(a,h)anthracene	53-70-3	mg/kg	0.33	0.33	3.7	1000	0.29		0.32		0.58		0.11	U	-	
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0.5	1.4	37	6.6	1.4		1.5		3.3		0.15	U	-	
Naphthalene	91-20-3	mg/kg	12	100	500	12	0.073	J	0.1	J	0.074	J	13	E	17	
Phenanthrene	85-01-8	mg/kg	1.1	4.9	47	1000	0.23		1.4		3.8		0.078	J	-	

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-78(6.5-7.0)		SB-80(4.0-4.5)	
LAB SAMPLE ID:							JE18375-7		JE18629-4	
SAMPLE DATE:							9/4/2025		9/8/2025	
MATRIX:							SOIL		SOIL	
							Results	Q	Results	Q
SVOCs (SW846 8270E)										
Benzo(a)anthracene	56-55-3	mg/kg	1	1.4	37	1	0.0281	J	1.38	
Benzo(a)pyrene	50-32-8	mg/kg	1	1	3.7	22	0.034	U	1.52	
Benzo(b)fluoranthene	205-99-2	mg/kg	1	1.4	37	2.1	0.0153	J	2.18	
Benzo(g,h,i)perylene	191-24-2	mg/kg	0.64	4.9	47	1000	0.034	U	1.27	
Benzo(k)fluoranthene	207-08-9	mg/kg	0.8	4.9	47	2	0.034	U	0.521	
Chrysene	218-01-9	mg/kg	1	4.9	47	1	0.0353		1.5	
Dibenzo(a,h)anthracene	53-70-3	mg/kg	0.33	0.33	3.7	1000	0.034	U	0.387	
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0.5	1.4	37	6.6	0.034	U	1.08	
Naphthalene	91-20-3	mg/kg	12	100	500	12	0.106		0.65	
Phenanthrene	85-01-8	mg/kg	1.1	4.9	47	1000	1.46		2.69	

Pesticides

Several pesticides, including 4,4'-DDD, 4,4'-DDE, 4,4'-DDT and Dieldrin, were detected at concentrations exceeding their respective UUSCOs in one or more samples at depths to 11.0 ft bgs. Pesticide exceedances were scattered throughout the Site and did not exhibit a trend.

- 4,4'-DDD was detected above SCOs in four (4) samples, at a maximum concentration of 0.0139 mg/kg in sample SB-29 (8-8.5).
- 4,4'-DDE was detected above SCOs in four (4) samples, at a maximum concentration of 0.179 mg/kg in sample SB-71 (1-2).

- 4,4'-DDT was detected above SCOs in seven (7) samples, at a maximum concentration of 0.283 mg/kg in sample SB-71 (1-2).
- Dieldrin was detected above SCOs in two (2) samples, at a maximum concentration of 0.0065 mg/kg in sample SB-29 (2.5-3).

Pesticide exceedances compared to CUSCOs, RRUSCOs, UUSCOs, and PGWSCOs are presented in Table 5.9 below.

TABLE 5.9 PESTICIDE EXCEEDANCES IN SOIL (mg/kg)

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-15 (2.5-3.0)		SB-23 (1-1.5)		SB-24 (3.5-4)		SB-29 (2.5-3)		SB-29 (8-8.5)	
LAB SAMPLE ID:							L2544282-10		L2547611-04		L2547611-08		L2547764-06		L2547764-07	
SAMPLE DATE:							7/15/2025		7/29/2025		7/29/2025		7/30/2025		7/30/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PESTICIDES (SW846 8081B)																
4,4'-DDD	72-54-8	mg/kg	0.0033	5	33	14	0.00188	U	0.00116	J	0.00263	P	0.00182	U	0.0139	P
4,4'-DDE	72-55-9	mg/kg	0.0033	3.4	22	9.3	0.00207		0.00719		0.0142	P	0.00182	U	0.00316	P
4,4'-DDT	50-29-3	mg/kg	0.0033	3.8	27	135	0.0115		0.00552	IP	0.00486	P	0.00182	U	0.00174	JP
Dieldrin	60-57-1	mg/kg	0.005	0.075	0.48	0.1	0.00118	U	0.00111	U	0.00515	P	0.0065		0.00111	U

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-29 (10.5-11)		SB-44 (2-3)		SB-45 (1-2)		SB-61 (1-2)		SB-71 (1-2)	
LAB SAMPLE ID:							L2547764-08		L2553523-01		L2550303-11		L2550665-12		L2551039-04	
SAMPLE DATE:							7/30/2025		8/11/2025		8/11/2025		8/12/2025		8/13/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL	
							Results		Results		Results		Results		Results	
PESTICIDES (SW846 8081B)																
4,4'-DDD	72-54-8	mg/kg	0.0033	5	33	14	0.00452		0.00166	U	0.00133	J	0.00339		0.00491	IP
4,4'-DDE	72-55-9	mg/kg	0.0033	3.4	22	9.3	0.000649	JIP	0.00146	J	0.00321		0.00142	J	0.179	
4,4'-DDT	50-29-3	mg/kg	0.0033	3.8	27	135	0.00166	U	0.00415		0.00386		0.00177	U	0.283	
Dieldrin	60-57-1	mg/kg	0.005	0.075	0.48	0.1	0.00104	U	0.00104	U	0.00104	U	0.00111	U	0.0011	U

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-75 (3.0-3.5)		SB-80(4.0-4.5)	
LAB SAMPLE ID:							JE18488-5		JE18629-4	
SAMPLE DATE:							9/5/2025		9/8/2025	
MATRIX:							SOIL		SOIL	
							Results	Q	Results	Q
PESTICIDES (SW846 8081B)										
4,4'-DDD	72-54-8	mg/kg	0.0033	5	33	14	0.00069	U	0.00071	U
4,4'-DDE	72-55-9	mg/kg	0.0033	3.4	22	9.3	0.0034		0.00071	U
4,4'-DDT	50-29-3	mg/kg	0.0033	3.8	27	135	0.0028		0.0113	
Dieldrin	60-57-1	mg/kg	0.005	0.075	0.48	0.1	0.00069	U	0.0008	

Metals

Several metals, including arsenic, barium, copper lead, manganese, mercury, nickel, and zinc, were detected at concentrations exceeding their respective NYSDEC CUSCOs, RRUSCOs, UUSCOs, and/or PGWSCOs in one or more samples at depths 18.5 ft bgs. Metal impacted soils exceeding the NYSDEC CUSCOs, RRUSCOs, and PGWSCOs extend to 10.0 ft bgs in certain areas. Metal impacted soils exceeding the NYSDEC UUSCOs extend to 18.5 ft bgs in certain areas. Metal exceedances are present side-wide; however, most exceedances were identified in the eastern portion of the Site.

- Arsenic was detected above SCOs in one (1) sample, at a maximum concentration of 15.8 mg/kg in sample SB-71 (1-2).
- Barium was detected above SCOs in two (2) samples, at a maximum concentration of 1,100 mg/kg in sample SB-61 (1-2).

- Copper was detected above SCOs in eight (8) samples, at a maximum concentration of 348 mg/kg in sample SB-57 (1-2).
- Lead was detected above SCOs in thirty-three (33) samples, at a maximum concentration of 2,520 mg/kg in sample SB-61 (1-2).
- Manganese was detected above SCOs in one (1) sample, at a maximum concentration of 5,960 mg/kg in sample SB-57 (10-11).
- Mercury was detected above SCOs in eleven (11) samples, at a maximum concentration of 1.8 mg/kg in sample SB-56 (1-2).
- Nickel was detected above SCOs in four (4) samples, at a maximum concentration of 48.8 mg/kg in sample SB-75 (18.0-18.5).
- Zinc was detected above SCOs in twenty-six (26) samples, at a maximum concentration of 753 mg/kg in sample SB-71 (1-2).

Metals exceedances compared to CUSCOs, RRUSCOs, UUSCOs and PGWSCOs are presented in **Table 5.10** below.

TABLE 5.10 METALS EXCEEDANCES IN SOIL (mg/kg)

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-1 (2.0-2.5)		SB-1 (5.5-6.0)		SB-2 (7.5-8.0)		SB-3 (3.5-4.0)		SB-7 (2.5-3.0)	
LAB SAMPLE ID:							L2543726-10		L2542974-06		L2543726-09		L2543856-01		L2542560-01	
SAMPLE DATE:							7/11/2025		7/9/2025		7/11/2025		7/14/2025		7/8/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
METALS (SW846 7471B & SW846 6010D)																
Arsenic	7440-38-2	mg/kg	13	16	16	16	2.58		4.77		0.849	U	5.71		1.3	
Barium	7440-39-3	mg/kg	410	410	410	820	83.7		108		180		211		200	
Copper	7440-50-8	mg/kg	50	280	280	1720	22.3		34.2		6.15		19.7		34.8	
Lead	7439-92-1	mg/kg	63	400	1000	450	89.3		114		8.38		358		9.93	
Manganese	7439-96-5	mg/kg	1600	2000	10000	2000	427		460		182		275		251	
Mercury	7439-97-6	mg/kg	0.18	0.3	1.1	0.73	0.105		0.136		0.073	U	0.079		0.061	J
Nickel	7440-02-0	mg/kg	30	320	320	130	7.79		14.6		2.12	U	9.02		36.8	
Zinc	7440-66-6	mg/kg	109	6600	10000	2480	95.3		107		111		232		69.1	

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-7 (2.5-3.0)		SB-10 (4.0-4.5)		SB-11 (16.0-16.5)		SB-12 (1.5-2.0)		SB-12 (5.5-6.0)	
LAB SAMPLE ID:							L2542974-12		L2542560-04		L2542560-05		L2542560-06		L2544282-13	
SAMPLE DATE:							7/9/2025		7/8/2025		7/8/2025		7/8/2025		7/15/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
METALS (SW846 7471B & SW846 6010D)																
Arsenic	7440-38-2	mg/kg	13	16	16	16	1.89		3.55		1.6		3.61		1.63	
Barium	7440-39-3	mg/kg	410	410	410	820	222		142		31.4		83.4		53.4	
Copper	7440-50-8	mg/kg	50	280	280	1720	33.4		37.1		14.7		25.2		11.8	
Lead	7439-92-1	mg/kg	63	400	1000	450	10.8		566		76		244		21.6	
Manganese	7439-96-5	mg/kg	1600	2000	10000	2000	268		250		120		273		369	
Mercury	7439-97-6	mg/kg	0.18	0.3	1.1	0.73	0.081	U	0.144		0.089	U	0.181		0.316	
Nickel	7440-02-0	mg/kg	30	320	320	130	39.3		13.4		7.78		11.4		9.1	
Zinc	7440-66-6	mg/kg	109	6600	10000	2480	60.4		144		45.7		93.8		29.4	

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-12 (13.0-13.5)		SB-14 (3.5-4.0)		SB-15 (6.0-6.5)		SB-23 (1-1.5)		SB-27 (3-3.5)	
LAB SAMPLE ID:							L2544282-14		L2542974-02		L2542974-03		L2547611-04		L2547764-12	
SAMPLE DATE:							7/15/2025		7/9/2025		7/9/2025		7/29/2025		7/30/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
METALS (SW846 7471B & SW846 6010D)																
Arsenic	7440-38-2	mg/kg	13	16	16	16	6.91		4.63		6.62		2.7		2.43	
Barium	7440-39-3	mg/kg	410	410	410	820	98		271		216		81.3		117	
Copper	7440-50-8	mg/kg	50	280	280	1720	30.7		24.1		280		30.6		33.4	
Lead	7439-92-1	mg/kg	63	400	1000	450	203		604		553		209		138	
Manganese	7439-96-5	mg/kg	1600	2000	10000	2000	232		197		294		462		1450	
Mercury	7439-97-6	mg/kg	0.18	0.3	1.1	0.73	0.177		0.255		0.134		0.087		0.116	
Nickel	7440-02-0	mg/kg	30	320	320	130	15.3		8.7		12.1		14.3		10.8	
Zinc	7440-66-6	mg/kg	109	6600	10000	2480	69.3		247		321		121		161	

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-29 (8-8.5)		SB-34 (2.5-3)		SB-35 (0.5-1)		SB-38 (5.5-6)		SB-39 (2.5-3)	
LAB SAMPLE ID:							L2547764-07		L2548308-04		L2548308-01		L2547764-03		L2548309-05	
SAMPLE DATE:							7/30/2025		7/31/2025		7/31/2025		7/30/2025		7/31/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	
METALS (SW846 7471B & SW846 6010D)																
Arsenic	7440-38-2	mg/kg	13	16	16	16	2.72		3.17		5.1		2.67		4.18	
Barium	7440-39-3	mg/kg	410	410	410	820	89.8		77		63.6		124		124	
Copper	7440-50-8	mg/kg	50	280	280	1720	25.6		18.4		34.3		25		57.3	
Lead	7439-92-1	mg/kg	63	400	1000	450	72.5		93.9		147		102		669	
Manganese	7439-96-5	mg/kg	1600	2000	10000	2000	164		264		452		365		339	
Mercury	7439-97-6	mg/kg	0.18	0.3	1.1	0.73	0.088		0.248		0.153		0.107		0.374	
Nickel	7440-02-0	mg/kg	30	320	320	130	15.3		11.6		12.5		25.3		12	
Zinc	7440-66-6	mg/kg	109	6600	10000	2480	95.1		84.3		126		400		214	

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-39 (9.5-10)		SB-40 (13.5-14)		SB-44 (2-3)		SB-45 (1-2)		SB-47 (4-5)	
LAB SAMPLE ID:							L2548309-06		L2550303-03		L2553523-01		L2550303-11		L2553536-01	
SAMPLE DATE:							7/31/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results		Results	Q
METALS (SW846 7471B & SW846 6010D)																
Arsenic	7440-38-2	mg/kg	13	16	16	16	7.2		1.55		2.84		2.73		1.85	
Barium	7440-39-3	mg/kg	410	410	410	820	59.4		131		228		81.6		94.3	
Copper	7440-50-8	mg/kg	50	280	280	1720	66.3		33.9		22.1		19.7		55.2	
Lead	7439-92-1	mg/kg	63	400	1000	450	1570		72.3		161		113		7.05	
Manganese	7439-96-5	mg/kg	1600	2000	10000	2000	312		212		367		240		162	
Mercury	7439-97-6	mg/kg	0.18	0.3	1.1	0.73	0.133		0.064	J	0.105		0.075	J	0.075	U
Nickel	7440-02-0	mg/kg	30	320	320	130	11		17.8		13.3		8.82		17.1	
Zinc	7440-66-6	mg/kg	109	6600	10000	2480	243		68.4		89.8		79.1		77.7	

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-56 (1-2)		SB-57 (1-2)		SB-57 (10-11)		SB-61 (1-2)		SB-61 (5-6)	
LAB SAMPLE ID:							L2550665-01		L2550665-04		L2550665-06		L2550665-12		L2550665-13	
SAMPLE DATE:							8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
METALS (SW846 7471B & SW846 6010D)																
Arsenic	7440-38-2	mg/kg	13	16	16	16	5		7.05		0.421	J	3.76		2.43	
Barium	7440-39-3	mg/kg	410	410	410	820	149		174		31.7		1010		243	
Copper	7440-50-8	mg/kg	50	280	280	1720	35.4		348		6.86		25.7		30.5	
Lead	7439-92-1	mg/kg	63	400	1000	450	603		1080		1.71	J	2520		321	
Manganese	7439-96-5	mg/kg	1600	2000	10000	2000	270		224		5960		246		453	
Mercury	7439-97-6	mg/kg	0.18	0.3	1.1	0.73	1.8		1.32		0.074	U	0.118		0.095	
Nickel	7440-02-0	mg/kg	30	320	320	130	11.8		9.67		5.43		12.6		12.6	
Zinc	7440-66-6	mg/kg	109	6600	10000	2480	664		447		12.5		479		192	

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-62 (4-5)		SB-63 (2-3)		SB-66 (0.5-1.5)		SB-70 (3.5-4.5)		SB-71 (1-2)	
LAB SAMPLE ID:							L2550665-14		L2553571-01		L2553509-01		L2551038-05		L2551039-04	
SAMPLE DATE:							8/12/2025		8/12/2025		8/13/2025		8/13/2025		8/13/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
METALS (SW846 7471B & SW846 6010D)																
Arsenic	7440-38-2	mg/kg	13	16	16	16	4.36		5.76		4.54		1.09		15.8	
Barium	7440-39-3	mg/kg	410	410	410	820	154		182		128		86		449	
Copper	7440-50-8	mg/kg	50	280	280	1720	142		40.6		17.9		99.2		120	
Lead	7439-92-1	mg/kg	63	400	1000	450	451		467		67.3		2.53	J	1100	
Manganese	7439-96-5	mg/kg	1600	2000	10000	2000	243		359		442		260		179	
Mercury	7439-97-6	mg/kg	0.18	0.3	1.1	0.73	0.877		1.2		0.127		0.073	U	0.178	
Nickel	7440-02-0	mg/kg	30	320	320	130	9.8		18.6		11.5		10.6		26.6	
Zinc	7440-66-6	mg/kg	109	6600	10000	2480	323		327		78		33.9		753	

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-75 (18.0-18.5)		SB-76 (2.0-2.5)		SB-76 (5.5-6.0)		SB-76 (17.5-18.0)		SB-80(4.0-4.5)	
LAB SAMPLE ID:							JE18488-8		JE18488-1		JE18488-2		JE18488-4		JE18629-4	
SAMPLE DATE:							45905		45905		45905		45905		45908	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
METALS (SW846 7471B & SW846 6010D)																
Arsenic	7440-38-2	mg/kg	13	16	16	16	2.2	U	5.2		5.7		3.2		3.2	
Barium	7440-39-3	mg/kg	410	410	410	820	280		182		126		97		73.9	
Copper	7440-50-8	mg/kg	50	280	280	1720	5.5	U	22.9		30.4		30.9		17.4	
Lead	7439-92-1	mg/kg	63	400	1000	450	2.2	U	404		351		120		53.9	
Manganese	7439-96-5	mg/kg	1600	2000	10000	2000	227		466		684		261		341	
Mercury	7439-97-6	mg/kg	0.18	0.3	1.1	0.73	0.028	U	0.18		0.12		0.03	U	0.056	U
Nickel	7440-02-0	mg/kg	30	320	320	130	48.8		15		13.7		12.1		13.8	
Zinc	7440-66-6	mg/kg	109	6600	10000	2480	33		215		428		115		111	

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-85(7-7.5)		SB-88(6.5-7.0)		SB-88(13.5-14.0)		SB-89(2.5-3.0)		SB-89(6.5-7.0)	
LAB SAMPLE ID:							JE18698-12		JE18798-3		JE18798-4		JE18798-5		JE18798-6	
SAMPLE DATE:							45909		45910		45910		45910		45910	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
METALS (SW846 7471B & SW846 6010D)																
Arsenic	7440-38-2	mg/kg	13	16	16	16	2.3		2.2	U	2.1	U	7.8		2.8	
Barium	7440-39-3	mg/kg	410	410	410	820	187		36		46.8		192		83.5	
Copper	7440-50-8	mg/kg	50	280	280	1720	14	U	10.3		12.1		45.2		20.4	
Lead	7439-92-1	mg/kg	63	400	1000	450	2.2	U	2.5		2.3		537		66	
Manganese	7439-96-5	mg/kg	1600	2000	10000	2000	713		92		159		251		333	
Mercury	7439-97-6	mg/kg	0.18	0.3	1.1	0.73	0.031	U	0.034	U	0.031	U	0.67		0.12	
Nickel	7440-02-0	mg/kg	30	320	320	130	37.4		7.6		8.6		14.2		14.5	
Zinc	7440-66-6	mg/kg	109	6600	10000	2480	114		131		187		621		93.3	

PCBs

One (1) PCB, including Aroclor 1260, was detected at concentrations exceeding the UUSCOin two (2) samples at depths to 3.0 ft bgs. Aroclor 1260 was detected at a maximum concentration of 0.151 mg/kg in sample SB-35 (0.5-1). PCB exceedances compared to CUSCOs, RRUSCOs, UUSCOs, and PGWSCOs are presented in **Table 5.11** below.

TABLE 5.11 PCB EXCEEDANCES IN SOIL (mg/kg)

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-34 (2.5-3)		SB-35 (0.5-1)	
LAB SAMPLE ID:							L2548308-04		L2548308-01	
SAMPLE DATE:							7/31/2025		7/31/2025	
MATRIX:							SOIL		SOIL	
							Results	Q	Results	Q
PCBs (SW846 8082A)										
Aroclor 1260	11096-82-5	mg/kg	0.1	1	1	3.2	0.109		0.151	
PCBs, Total	1336-36-3	mg/kg	0.1	1	1	3.2	0.163		0.151	

PFAS

As shown in **Table 5.12** below, one PFAS compound, perfluorooctanesulfonic acid (PFOS), was detected in soil at concentrations exceeding the NSYDEC Guidance Value for Unrestricted Use,

per the NYSDEC Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances under NYSDEC's Part 375 Remedial Programs, April 2023 (PFAS Guidance).

- PFOS was detected at concentrations exceeding the Unrestricted Use and/or Protection of Groundwater Guidance Values in four (4) samples at depths to 9.5 ft bgs in certain areas.
- PFOS was detected at a maximum concentration of 3.34 ppb in sample SB-21 (4.0-4.5).

PFAS exceedances compared to CUSCOs, RRUSCOs, UUSCOs, and PGWSCOs are presented in **Table 5.12** below.

TABLE 5.12 PFAS EXCEEDANCES IN SOIL (µg/kg)

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-4 (9.0-9.5)		SB-21 (4.0-4.5)		SB-35 (0.5-1)		SB-38 (2-2.5)	
LAB SAMPLE ID:							L2542207-04		L2543250-04		L2548308-01		L2547764-02	
SAMPLE DATE:							7/7/2025		7/10/2025		7/31/2025		7/30/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q
PFAS (EPA METHOD 1633)														
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	mg/kg	0.88	44	440	1.0	1.3		3.34		1.39		0.94	

2.2.2 GROUNDWATER INVESTIGATION RESULTS

Groundwater sample analytical results were compared to the applicable NYSDEC AWQSGVs, as presented in the attached **Tables 5.13 through 5.18.** VOC exceedances were generally identified in and around the former gas stations on the southwestern portion of the Site as well as to the north of the gas stations (downgradient).

VOCs

As shown in **Table 5.19** below and **Figure 4.2**, the VOCs listed below were detected at concentrations exceeding their respective AWQSGVs:

- 1,2,4,5-Tetramethylbenzene was detected above its AWQSGV in three (3) samples, with a maximum concentration of 110 ug/l in sample TW-1
- 1,2,4-Trimethylbenzene was detected at a maximum concentration of 140 ug/l in sample TW-2
- 1,3,5-Trimethylbenzene was detected at a maximum concentration of 5.8 ug/l in sample TW-2
- 2-Butanone (MEK) was detected at a maximum concentration of 60.7 ug/l in sample TW-13

- Acetone was detected at a maximum concentration of 128 ug/l in sample TW-15
- Benzene was detected at a maximum concentration of 1.3 ug/l in sample TW-3
- Ethylbenzene was detected at a maximum concentration of 71 ug/l in sample TW-2
- Isopropylbenzene was detected at a maximum concentration of 45 ug/l in sample TW-1
- Naphthalene was detected at a maximum concentration of 200 ug/l in sample TW-13
- Butylbenzene was detected at a maximum concentration of 22 ug/l in sample TW-1
- N-Propylbenzene was detected at a maximum concentration of 170 ug/l in sample TW-1
- O-xylene was detected at a maximum concentration of 16 ug/l in sample TW-2
- P/m-xylene was detected at a maximum concentration of 73 ug/l in sample TW-2
- Sec-butylbenzene was detected at a maximum concentration of 23 ug/l in sample TW-1

VOC exceedances compared to AWQSGVs are presented in **Table 5.19** below.

TABLE 5.19 VOC EXCEEDANCES IN GROUNDWATER (ug/l)

Sample ID:	CAS	NY-AWQS	Units	TW-1		TW-2		TW-3		TW-6	
Sample Date:				7/10/2025		7/10/2025		7/29/2025		8/1/2025	
Lab ID:				L2543250-05		L2543250-06		L2547611-02		L2548397-03	
				Results	Qual	Results	Qual	Results	Qual	Results	Qual
Volatile Organics by GC/MS											
1,2,4,5-Tetramethylbenzene	95-93-2	5	ug/L	110		33		4	U	7.5	
1,2,4-Trimethylbenzene	95-63-6	5	ug/L	2.5	U	140		5	U	13	
1,3,5-Trimethylbenzene	108-67-8	5	ug/L	2.5	U	5.8		5	U	3.6	
2-Butanone	78-93-3	50	ug/L	5	U	5	U	10	U	5	U
Acetone	67-64-1	50	ug/L	16		5	U	9.2	J	12	
Benzene	71-43-2	1	ug/L	0.42	J	0.36	J	1.3		0.54	
Ethylbenzene	100-41-4	5	ug/L	0.85	J	71		5	U	2.6	
Hexachlorobutadiene	87-68-3	0.5	ug/L	2.5	U	2.5	U	5	U	2.5	U
Isopropylbenzene	98-82-8	5	ug/L	45		18		5	U	3.3	
n-Butylbenzene	104-51-8	5	ug/L	22		7.9		5	U	3.2	
n-Propylbenzene	103-65-1	5	ug/L	170		44		5	U	3.9	
Naphthalene	91-20-3	10	ug/L	2.2	J	19		5	U	12	
o-Xylene	95-47-6	5	ug/L	2.5	U	16		5	U	0.81	J
p/m-Xylene	179601-23-1	5	ug/L	0.77	J	73		5	U	2	J
sec-Butylbenzene	135-98-8	5	ug/L	23		5.3		5	U	5.8	
Xylenes, Total	1330-20-7	5	ug/L	-	-	-	-	5	U	2.8	J

Sample ID:	CAS	NY-AWQS	Units	TW-10		TW-13		TW-15		TW-16	
Sample Date:				9/5/2025		9/8/2025		9/9/2025		9/9/2025	
Lab ID:				JE18488-14		JE18629-11		JE18698-21		JE18698-22	
				Results	Qual	Results	Qual	Results	Qual	Results	Qual
Volatile Organics by GC/MS											
1,2,4,5-Tetramethylbenzene	95-93-2	5	ug/L	-		-		-		-	
1,2,4-Trimethylbenzene	95-63-6	5	ug/L	-		-		-		-	
1,3,5-Trimethylbenzene	108-67-8	5	ug/L	-		-		-		-	
2-Butanone	78-93-3	50	ug/L	4.2 J		60.7		100	U	10	U
Acetone	67-64-1	50	ug/L	52.4		116		128		10	U
Benzene	71-43-2	1	ug/L	0.50	U	0.50	U	0.50	U	0.50	U
Ethylbenzene	100-41-4	5	ug/L	15.1		354		1950		4.6	
Hexachlorobutadiene	87-68-3	0.5	ug/L	-		1.0 U		1.0	U	1.0	U
Isopropylbenzene	98-82-8	5	ug/L	8.8		58.3		375		5.8	
n-Butylbenzene	104-51-8	5	ug/L	-		-		-		-	
n-Propylbenzene	103-65-1	5	ug/L	-		-		-		-	
Naphthalene	91-20-3	10	ug/L	-		-		-		-	
o-Xylene	95-47-6	5	ug/L	2.6		192		395		1.0	U
p/m-Xylene	179601-23-1	5	ug/L	7.2		1240		3610		5.5	
sec-Butylbenzene	135-98-8	5	ug/L	-		-		-		-	
Xylenes, Total	1330-20-7	5	ug/L	9.8		1430		4000		5.5	

SVOCs

Several SVOCs, including Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl)phthalate, Chrysene, Indeno(1,2,3-cd)pyrene and Naphthalene, were detected at concentrations exceeding their respective AWQSGVs in one or more samples. SVOCs, most notably PAHs, were generally present site-wide.

- Benzo(a)anthracene was detected at a maximum concentration of 0.08 ug/l in sample TW-14
- Benzo(a)pyrene was detected at a maximum concentration of 0.22 ug/l in sample TW-8
- Benzo(b)fluoranthene was detected at a maximum concentration of 1.1 ug/l in sample TW-17
- Benzo(k)fluoranthene was detected at a maximum concentration of 0.39 ug/l in sample TW-17
- Bis(2-ethylhexyl)phthalate was detected at a maximum concentration of 5.2 ug/l in sample TW-7
- Chrysene was detected at a maximum concentration of 0.79 ug/l in sample TW-17
- Indeno(1,2,3-cd)pyrene was detected at a maximum concentration of 0.86 ug/l in sample TW-17
- Naphthalene was detected at a maximum concentration of 199 ug/l in sample TW-13

SVOC exceedances compared to AWQSGVs are presented in **Table 5.20** below.

TABLE 5.20 SVOC EXCEEDANCES IN GROUNDWATER (ug/l)

Sample ID:	CAS	NY-AWQS	Units	TW-5		TW-4		TW-7		TW-8		FIELD BLANK	
Sample Date:				7/31/2025		8/1/2025		8/14/2025		8/14/2025		8/14/2025	
Lab ID:				L2548309-10		L2548398-01		L2551402-01		L2551402-02		L2551402-03	
				Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Semivolatile Organics by GC/MS													
Benzo(a)anthracene	56-55-3	0.002	ug/L	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	50-32-8	0	ug/L	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	205-99-2	0.002	ug/L	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	207-08-9	0.002	ug/L	-	-	-	-	-	-	-	-	-	-
Bis(2-ethylhexyl)phthalate	117-81-7	5	ug/L	3.2	J	2.3	J	5.2		2.5	J	3	U
Chrysene	218-01-9	0.002	ug/L	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	ug/L	-	-	-	-	-	-	-	-	-	-
Naphthalene	91-20-3	10	ug/L	-	-	-	-	-	-	-	-	-	-
Semivolatile Organics by GC/MS-SIM													
Benzo(a)anthracene	56-55-3	0.002	ug/L	0.06	J	0.04	J	0.11		0.13		0.03	J
Benzo(a)pyrene	50-32-8	0	ug/L	0.13	U	0.1	U	0.08	J	0.22		0.1	U
Benzo(b)fluoranthene	205-99-2	0.002	ug/L	0.13	U	0.1	U	0.12		0.32		0.1	U
Benzo(ghi)perylene	191-24-2	NS	ug/L	0.13	U	0.1	U	0.08	J	0.27		0.1	U
Benzo(k)fluoranthene	207-08-9	0.002	ug/L	0.13	U	0.1	U	0.04	J	0.09	J	0.1	U
Chrysene	218-01-9	0.002	ug/L	0.13	U	0.1	U	0.05	J	0.12		0.1	U
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	ug/L	0.13	U	0.1	U	0.08	J	0.28		0.1	U

Sample ID:	CAS	NY-AWQS	Units	TW-13		TW-14		TW-15		TW-16		TW-17	
Sample Date:				9/8/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025	
Lab ID:				JE18629-11		JE18698-20		JE18698-21		JE18698-22		JE18698-23	
				Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Semivolatile Organics by GC/MS													
Benzo(a)anthracene	56-55-3	0.002	ug/L	1.0	U	0.80	J	0.41	J	0.29	J	0.71	J
Benzo(a)pyrene	50-32-8	0	ug/L	1.0	U	0.76	J	0.29	J	0.43	J	1	
Benzo(b)fluoranthene	205-99-2	0.002	ug/L	1.0	U	1		0.46	J	0.52	J	1.1	
Benzo(k)fluoranthene	207-08-9	0.002	ug/L	1.0	U	0.36	J	1.0	U	1.0	U	0.39	J
Bis(2-ethylhexyl)phthalate	117-81-7	5	ug/L	2.0	U	2.0	U	2.1		2.0	U	2.0	U
Chrysene	218-01-9	0.002	ug/L	1.0	U	0.71	J	0.30	J	0.24	J	0.79	J
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	ug/L	1.0	U	0.65	J	1.0	U	0.58	J	0.86	J
Naphthalene	91-20-3	10	ug/L	199		0.26	J	152		6.6		0.83	J
Semivolatile Organics by GC/MS-SIM													
Benzo(a)anthracene	56-55-3	0.002	ug/L	-		-		-		-		-	
Benzo(a)pyrene	50-32-8	0	ug/L	-		-		-		-		-	
Benzo(b)fluoranthene	205-99-2	0.002	ug/L	-		-		-		-		-	
Benzo(ghi)perylene	191-24-2	NS	ug/L	-		-		-		-		-	
Benzo(k)fluoranthene	207-08-9	0.002	ug/L	-		-		-		-		-	
Chrysene	218-01-9	0.002	ug/L	-		-		-		-		-	
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	ug/L	-		-		-		-		-	

Pesticides

Pesticides were not detected at concentrations exceeding their respective AWQSGVs in any sample.

Total Metals

Several metals, including total arsenic, barium, beryllium, cadmium, chromium, copper, iron, lead, magnesium, manganese, mercury, nickel, selenium, sodium, thallium and zinc, were detected at concentrations exceeding their respective AWQSGVs in one or more samples. Metals exceedances were identified throughout the Site.

- Arsenic was detected at a maximum concentration of 66.56 ug/l in sample TW-3
- Barium was detected at a maximum concentration of 11,310 ug/l in sample TW-3
- Beryllium was detected at a maximum concentration of 28.7 ug/l in sample TW-14
- Cadmium was detected at a maximum concentration of 11.41 ug/l in sample TW-3
- Chromium was detected at a maximum concentration of 868.4 ug/l in sample TW-5
- Copper was detected at a maximum concentration of 10,300 ug/l in sample TW-3
- Iron was detected at a maximum concentration of 666,000 ug/l in sample TW-3
- Lead was detected at a maximum concentration of 4,517 ug/l in sample TW-5

- Magnesium was detected at a maximum concentration of 852,000 ug/l in sample TW-14
- Manganese was detected at a maximum concentration of 33,320 ug/l in sample TW-6
- Mercury was detected at a maximum concentration of 1.25 ug/l in sample TW-5
- Nickel was detected at a maximum concentration of 1,468 ug/l in sample TW-3
- Selenium was detected at a maximum concentration of 65.9 ug/l in sample TW-7
- Sodium was detected at a maximum concentration of 1,440,000 ug/l in sample TW-3
- Thallium was detected at a maximum concentration of 10.36 ug/l in sample TW-3
- Zinc was detected at a maximum concentration of 3,883 ug/l in sample TW-3
- Aluminum was also detected but there is no applicable AWQS for Aluminum.

Metals exceedances compared to AWQSGVs are presented in **Table 5.21** below.

TABLE 5.21 METALS EXCEEDANCES IN GROUNDWATER (ug/l)

Sample ID:	CAS	NY-AWQS	Units	TW-1		TW-2		TW-3		TW-5		TW-6		TW-4	
Sample Date:				7/10/2025		7/10/2025		7/29/2025		7/31/2025		8/1/2025		8/1/2025	
Lab ID:				L2543250-05		L2543250-06		L2547611-02		L2548309-10		L2548397-03		L2548398-01	
				Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Total Metals															
Aluminum, Total	7429-90-5	NS	ug/L	467		304		408000		383000		349000		24400	
Arsenic, Total	7440-38-2	25	ug/L	2.38		3.04		66.56		44.93		39.46		6.31	
Barium, Total	7440-39-3	1000	ug/L	240.5		222.1		11310		11190		8725		677.1	
Beryllium, Total	7440-41-7	3	ug/L	0.5	U	0.5	U	19.74		14.76		17.71		1.02	
Cadmium, Total	7440-43-9	5	ug/L	0.93		0.67		11.41		7.21		6.9		0.51	
Chromium, Total	7440-47-3	50	ug/L	1.09		0.78	J	748.1		868.4		843		38.46	
Copper, Total	7440-50-8	200	ug/L	15.74		17.75		10300		2183		1811		74.79	
Iron, Total	7439-89-6	300	ug/L	2630		5150		666000		455000		413000		41900	
Lead, Total	7439-92-1	25	ug/L	316.1		243.6		1145		4517		734.6		84.43	
Magnesium, Total	7439-95-4	35000	ug/L	28900		25400		472000		842000		590000		56000	
Manganese, Total	7439-96-5	300	ug/L	1780		1736		24620		22890		33320		2058	
Mercury, Total	7439-97-6	0.7	ug/L	0.2	U	0.2	U	0.51		1.25		0.66		0.2	U
Nickel, Total	7440-02-0	100	ug/L	8.8		8.02		1468		930.8		898.7		39.94	
Selenium, Total	7782-49-2	10	ug/L	3.75	J	2.97	J	56.7		63.8		40		3.41	J
Sodium, Total	7440-23-5	20000	ug/L	615000		585000		1440000		175000		98200		108000	
Thallium, Total	7440-28-0	0.5	ug/L	1	U	1	U	10.36		6.11		6.08		0.47	J
Zinc, Total	7440-66-6	2000	ug/L	171.7		138.2		3883		3338		2018		173	

Sample ID:	CAS	NY-AWQS	Units	TW-7		TW-8		TW-9		TW-10		TW-11		TW-12	
Sample Date:				8/14/2025		8/14/2025		9/5/2025		9/5/2025		9/5/2025		9/8/2025	
Lab ID:				L2551402-01		L2551402-02		JE18488-13		JE18488-14		JE18488-15		JE18629-10	
				Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Total Metals															
Aluminum, Total	7429-90-5	NS	ug/L	32200		24200		86100		28200		35100		6440	
Arsenic, Total	7440-38-2	25	ug/L	15.14		10.73		10	U	15	U	15	U	3.9	
Barium, Total	7440-39-3	1000	ug/L	1440		925.4		1390		924		1410		200	U
Beryllium, Total	7440-41-7	3	ug/L	5.12		1.51		2.7		1.9		2		1.0	U
Cadmium, Total	7440-43-9	5	ug/L	1.91		1.03		5.0	U	15	U	15	U	3.0	U
Chromium, Total	7440-47-3	50	ug/L	94.63		92.23		188		166		82.8		18.4	
Copper, Total	7440-50-8	200	ug/L	43.46		118		208		232		222		35.4	
Iron, Total	7439-89-6	300	ug/L	89400		39700		139000		72000		48200		6920	
Lead, Total	7439-92-1	25	ug/L	520.9		68.91		70.7		57.6		201		454	
Magnesium, Total	7439-95-4	35000	ug/L	83400		37300		135000		113000		149000		25300	
Manganese, Total	7439-96-5	300	ug/L	4131		7130		3420		2430		4960		509	
Mercury, Total	7439-97-6	0.7	ug/L	0.12	J	0.2	U	1.2 U		1.2	U	1.2	U	0.20	U
Nickel, Total	7440-02-0	100	ug/L	90.31		52.07		150		77.5		90.4		12.7	
Selenium, Total	7782-49-2	10	ug/L	65.9		42		17	U	10	U	10	U	10	U
Sodium, Total	7440-23-5	20000	ug/L	169000		137000		28300		40900		28900		60600	
Thallium, Total	7440-28-0	0.5	ug/L	0.64	J	0.38	J	17	U	10	U	10	U	10	U
Zinc, Total	7440-66-6	2000	ug/L	510.5		141.7		393		255		244		253	

Sample ID:	CAS	NY-AWQS	Units	TW-13		TW-14		TW-15		TW-16		TW-17		TW-18	
Sample Date:				9/8/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/10/2025	
Lab ID:				JE18629-11		JE18698-20		JE18698-21		JE18698-22		JE18698-23		JE18798-1	
				Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Total Metals															
Aluminum, Total	7429-90-5	NS	ug/L	164000		653000		117000		413000		172000		88100	
Arsenic, Total	7440-38-2	25	ug/L	41		211		37		77.9		26.6		16.2	
Barium, Total	7440-39-3	1000	ug/L	1780		5490		1730		4470		2050		927	
Beryllium, Total	7440-41-7	3	ug/L	3.5		28.7		6.3		22		10.7		4.2	
Cadmium, Total	7440-43-9	5	ug/L	15	U	30	U	3.0	U	15	U	15	U	3.0	U
Chromium, Total	7440-47-3	50	ug/L	432		1260		238		1010		431		189	
Copper, Total	7440-50-8	200	ug/L	875		1850		636		2450		571		188	
Iron, Total	7439-89-6	300	ug/L	446000		1200000		215000		717000		277000		132000	
Lead, Total	7439-92-1	25	ug/L	149		2430		374		300		119		49.1	
Magnesium, Total	7439-95-4	35000	ug/L	147000		852000		86400		409000		183000		85900	
Manganese, Total	7439-96-5	300	ug/L	5110		34600		6500		57000		11200		2430	
Mercury, Total	7439-97-6	0.7	ug/L	1.2	U	8.3		1.2	U	1.2	U	1.2	U	1.2	U
Nickel, Total	7440-02-0	100	ug/L	295		1230		248		939		326		132	
Selenium, Total	7782-49-2	10	ug/L	50	U	100	U	20	U	50	U	50	U	10	U
Sodium, Total	7440-23-5	20000	ug/L	122000		129000		167000		480000		403000		35600	
Thallium, Total	7440-28-0	0.5	ug/L	50	U	100	U	20	U	50	U	50	U	10	U
Zinc, Total	7440-66-6	2000	ug/L	773		2620		770		1350		672		369	

PCBs

One (1) PCB, Aroclor 1260, was detected at concentrations exceeding its respective AWQSGV in sample TW-7 at 0.238 ug/l. The one PCB exceedance compared to AWQSGVs is presented in **Table 5.22** below.

TABLE 5.22 PCB EXCEEDANCES IN GROUNDWATER (ug/l)

Sample ID:	CAS	NY-AWQS	Units	TW-7	
Sample Date:				8/14/2025	
Lab ID:				L2551402-01	
				Results	Qual
Polychlorinated Biphenyls by GC					
Aroclor 1016	12674-11-2	0.09	ug/L	0.071	U
Aroclor 1221	11104-28-2	0.09	ug/L	0.071	U
Aroclor 1232	11141-16-5	0.09	ug/L	0.071	U
Aroclor 1242	53469-21-9	0.09	ug/L	0.071	U
Aroclor 1248	12672-29-6	0.09	ug/L	0.071	U
Aroclor 1254	11097-69-1	0.09	ug/L	0.071	U
Aroclor 1260	11096-82-5	0.09	ug/L	0.238	
Aroclor 1262	37324-23-5	0.09	ug/L	0.071	U
Aroclor 1268	11100-14-4	0.09	ug/L	0.062	J
PCBs, Total	1336-36-3	NS	ug/L	0.3	J

PFAS

PFAS species PFOA and PFOS were detected at concentrations exceeding their respective human health criteria of 6.7 ppt and 2.7 ppt or maximum contaminant level (MCL) of 10 ppt, respectively, as provided in the PFAS Guidance for all of the groundwater samples. PFOS was detected at a maximum concentration of 89.2 ppt in sample TW-6. PFOA was detected at a maximum concentration of 140 ppt in sample TW-5.

PFAS exceedances compared to NYSDEC Ambient Water Quality Guidance Values (AWQGV) Human Health Criteria [NYSDEC 4/2023]) are presented in **Table 5.23** below.

TABLE 5.23 PFAS EXCEEDANCES IN GROUNDWATER (ppt)

Sample ID:	CAS	NY-AWQS	Units	TW-1		TW-2		TW-3		TW-5	
Sample Date:				7/10/2025		7/10/2025		7/29/2025		7/31/2025	
Lab ID:				L2543250-05		L2543250-06		L2547611-02		L2548309-10	
				Results	Qual	Results	Qual	Results	Qual	Results	Qual
Perfluorinated Alkyl Acids by EPA 1633											
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	0.0027	ug/L	0.0192		0.0121		0.0216	J	0.8	U
Perfluorooctanoic Acid (PFOA)	335-67-1	0.0067	ug/L	0.0673		0.0158		0.0232	J	0.14	J

Sample ID:	CAS	NY-AWQS	Units	TW-6		TW-4		TW-7		TW-8	
Sample Date:				8/1/2025		8/1/2025		8/14/2025		8/14/2025	
Lab ID:				L2548397-03		L2548398-01		L2551402-01		L2551402-02	
				Results	Qual	Results	Qual	Results	Qual	Results	Qual
Perfluorinated Alkyl Acids by EPA 1633											
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	0.0027	ug/L	0.0892		0.0204		0.0256		0.0197	
Perfluorooctanoic Acid (PFOA)	335-67-1	0.0067	ug/L	0.0201		0.0146		0.00976		0.0181	

2.2.3 SOIL VAPOR INVESTIGATION RESULTS

Soil vapor sample analytical results were compared to the applicable NYSDOH Decision Matrices, as presented in the attached **Tables 5.24**. As shown in **Table 5.25** below and **Figure 4.3**, the VOCs listed below were detected at concentrations exceeding their respective Decision Matrix thresholds to monitor or mitigate depending on indoor air concentration:

- 2,2,4-Trimethylpentane was detected at a maximum concentration of 1,070,000 ug/m^3 in sample SV-5
- Benzene was detected at a maximum concentration of 37,400 ug/m^3 in sample SV-5.
- Cyclohexane was detected at a maximum concentration of 447,000 ug/m^3 in sample SV-5.
- Ethylbenzene was detected at a maximum concentration of 28,900 ug/m^3 in sample SV-5.
- Heptane was detected at a maximum concentration of 852,000 ug/m^3 in sample SV-5. N
- Hexane was detected at a maximum concentration of 2,490,000 ug/m^3 in sample SV-5.
- P/m-Xylene was detected at a maximum concentration of 25,300 ug/m^3 in sample SV-5.
- Tetrachloroethene was detected at a maximum concentration of 154 ug/m^3 in sample SV-2.

VOC exceedances compared to NYSDOH Decision Matrices are presented in **Table 5.25** below:

TABLE 5.25 SOIL VAPOR EXCEEDANCE DATA SUMMARY (ug/m^3)

Sample ID:	**CAS**	**NY-SSC-A-F**	SV-2		SV-5	
Sample Date:			7/25/2025		8/1/2025	
Lab ID:			L2546945-02		L2548401-01	
			Results	Qual	Results	Qual
Volatile Organics in Air						
2,2,4-Trimethylpentane	540-84-1	60	1.66		1070000	
Benzene	71-43-2	60	1.91		37400	
Cyclohexane	110-82-7	60	1.2		447000	
Ethylbenzene	100-41-4	60	7.12		28900	
n-Hexane	110-54-3	200	0.705	U	2490000	
p/m-Xylene	179601-23-1	200	19.8		25300	
Tetrachloroethene	127-18-4	100	154		11300	U
Volatile Organics in Air by SIM						
Heptane	142-82-5	200	-	-	852000	

2.2.4 QA/QC RESULTS

QA/QC results were evaluated to confirm the data was usable in compliance with NYSDEC requirements. Field and trip blanks were collected as measures of QA/QC during field days when

sampling was being completed. All QA/QC analytical results demonstrated compliance with the AWQSV except for an exceedance of benzo(a)anthracene identified in a field blank sample collected on August 14, 2025 (lab ID L2551402-03). As a result, exceedances of benzo(a)anthracene that were identified in TW-7 and TW-8 may have been biased high.

2.2.5 DATE USABILITY SUMMARY REPORT

To validate laboratory analytical data, Data Usability Summary Reports (DUSR) for each laboratory analytical data package are being prepared. To ensure that the field sampling and laboratory analytical practices were acceptable, the data associated with all the samples will be validated by a third party (in accordance with requirements of DER-10). The validation approach and results will be presented in an amended RIR.

The DUSR will include data sets from this phase of the remedial investigation. The DUSR will be carried out as specified in DER-10 to evaluate the quality control measures that were implemented during the field and laboratory analytical programs, with the objective of determining whether the reported analytical data are representative and usable for decision making. The DUSR will evaluate whether the data are technically defensible (i.e. were all analytical data requirements met and documented?). Data usability analysis will review the Site data to determine whether they are adequate to draw conclusions regarding the nature and extent of contamination.

The items that will be reviewed as part of the DUSR include the following:

- Completeness (number of samples collected and analyzed compared to plans)
- Chains of custody are complete and accurate
- Holding times
- Instrument calibration
- Relative percent difference between field duplicates
- Reasonableness of data (e.g. relationships between total and soluble analytes)
- Blank contamination

2.2.6 GEOPHYSICAL INVESTIGATION RESULTS

The effective depth of GPR penetration was limited to approximately 4.5 feet below grade, due to signal attenuation from soil conductivity. GPR and TW-6 instruments could not be effectively

utilized near parked vehicles, metallic fences, exterior walls, or metal-reinforced concrete surfaces.

Two USTs located in the grassy area to the west of the WPHA boiler room located north of the Site boundary were marked in white paint, and associated vent lines were traced. These USTs are determined to not be on the Site and will be protected by the installation of SOE. A single detection within the asphalt area was marked in pink; however, the anomaly measured only approximately 3 feet by 3 feet and was roughly square rather than oblong in shape. This anomaly was determined unlikely to represent a UST due to the size and lack of fill ports, piping or other features being identified but the nature of this anomaly will be determined via excavation as part of the RAWP activities described in this RAWP.

2.3 Significant Threat

A significant threat determination to human health and the environment has not yet been made. Upon determination, notice will be provided for public review.

2.4 Site History

2.4.1 PAST USES AND OWNERSHIP

The Site was formerly occupied by residential properties in the early 1900s. By at least 1930, 26 East Post Road (Former Getty Gas Station) had been developed as a gasoline service station. By the 1950s, 34 East Post Road (Former Marianina Gas Station) was also developed as a gasoline service station, Former 42 East Post Road (Former Medical Supply Building) was improved with the present-day storefront structure, Former 60 East Post Road (Former Firestone Auto Repair Site) was developed as an auto repair facility with the existing building; and the WPHA Excess Property was developed with the present-day parking lot.

SESI obtained historical city directory data from EDR for the Site during the Phase I ESA. The ownership history and historical site operations are listed in the tables below.

Table 2.1—Ownership History

Year	Operations
26 East Post Road (Former Getty Gas Station)	
1963	J&N Serv Sta
1965	Vacant
1982	Carrousel Pwr Tst
34 East Post Road (Former Marianina Gas Station)	
1963	Landgrebe Serv Sta
1965	Landgrebe Serv Sta
1972	Post Davis Svc Sta
1977	Post Davis Svc Sta
1987	Nrthvll Gasoline
1995	Marianina Oil Corp
2000	Barrier White Plains Citgo Occupant Unknown
2005	Barrier White Plains Citgo
2014	East Post Road Gasmart Incorporated
2017	Barrier White Plains Citgo East Post Road Gasmart Inc
2022	The Marion W Fried Auditorium Union Food Market
Former 42 East Post Road (Former Medical Supply Building)	
1963	Plaidland Redemption Store
1965	Plaidland Redemption Store

Year	Operations
1972	S&H Uniform Corp
1977	S&H Uniform Corp
1987	Walker Surgical ASC Autosound Unlmtd Autosound Cnsltnts Cher-Robs Walkr Resptry
1992	LHR LIMOUSINE LTD RRR Waxing & Detailing LTD
1995	Brakes For Less RRR Waxing & Detailing LTD Union Enterprises Walker Respiratory Home Care Walker Surgical Associates
2000	Union Enterprises Walker Respiratory Home Care
2005	Union Enterprises
2010	Dolex Dollar Express
2014	Dolex White Plains Surgical Supplies
2017	Dollar Rent A Car White Plains Surgical Supplies
2022	Dolex Dollar Express Hudson Meridian Construction Group LLC RRR Waxing & Detailing LTD

Year	Operations
Former 60 East Post Road (Former Firestone Auto Repair Site)	
1963	Firestone Stores tire reprs and hsehold furngs Firestone Tire & Rubber Co
1965	Firestone Stores tire reprs and hsehold furngs Firestone Tire & Rubber Co
1972	Firestone Stores
1977	Firestone Firestone Stores Wchstr Tire Co Inc
1987	Firestone Wht Plns Wchstr Tire Co Inc
1992	Firestone of White Plains Westchester Tire Co Inc
1995	Firestone of White Plains Westchester Tire Co Inc
2000	Ramapo Discount Tire Centers
2010	STS Tire & Auto CTR
2014	Firestone Complete Auto Care Store
2017	Firestone Complete Auto Care
2022	Firestone Complete Auto Care Phil Maldonato

Year	Operations
223 Martin Luther King Boulevard	
2000	White Plains Housing Authority Main Office
2005	White Plains Housing Authority
2010	White Plains Housing White Plains Housing Authority
2014	Housing Authority White Plains Housing
2017	Housing Authority White Plains Housing White Plains Housing Auth
2022	Authority Managers Gilbert Galli Pual Bratcher White Plains Housing Auth White Plains Housing Service, Inc
225 Martin Luther King Boulevard	
2000	Residential
2005	Residential
2010	Residential
2014	Residential
2017	Residential
2022	Residential

Table 2.2—Historical Site Operations

Year	Owner(s)			
	26 EPR	34 EPR	42 EPR	60 EPR
2022	Not Listed	Commercial Facilities	Mixed Commercial Facilities	Firestone Complete Auto Care Store
2017	Not Listed	Barrier White Plains Citgo / E Post Rd Gasmart Inc.	Mixed Commercial Facilities	Firestone Complete Auto Care Store
2014	Not Listed	E Post Rd Gasmart Inc.	Mixed Commercial Facilities	Firestone Complete Auto Care Store
2010	Not Listed	Not Listed	Mixed Commercial Facilities	STS Tire & Auto Center
2005	Not Listed	Barrier White Plains Citgo	Mixed Commercial Facilities	Not Listed
2000	Not Listed	Barrier White Plains Citgo / Unknown Occupant	Mixed Commercial Facilities	Ramapo Discount Tire Centers
1995	Not Listed	Marianina Oil Corp	Mixed Commercial Facilities	Firestone of White Plains / Westchester Tire Co Inc.
1992	Not Listed	Not Listed	Mixed Commercial Facilities	Firestone of White Plains / Westchester Tire Co Inc.
1987	Not Listed	Nrthvll Gasoline	Mixed Commercial Facilities	Firestone of White Plains / Westchester Tire Co Inc.
1982	Carrousel Pwr Tst	Not Listed	Not Listed	Not Listed
1977	Not Listed	Post Davis Svc Sta	Mixed Commercial Facilities	Firestone / Firestone Stores / Westchester Tire Co Inc.

Year	Owner(s)			
	26 EPR	34 EPR	42 EPR	60 EPR
1972	Not Listed	Post Davis Svc Sta	Mixed Commercial Facilities	Firestone Stores
1965	Vacant	Landgrebe Serv Sta	Mixed Commercial Facilities	Firestone Stores / Firestone Tire & Rubber Co
1963	J&N Serv Sta	Landgrebe Serv Sta	Mixed Commercial Facilities	Firestone Stores / Firestone Tire & Rubber Co

2.4.2 PHASE I AND PHASE II REPORTS

2.4.2.1 JUNE 2021 PHASE I ESA, PREPARED BY BARTON & LOGUIDICE, D.P.C.

Barton & Loguidice (B&L) prepared a Phase I Environmental Site Assessment (ESA)/EPA All-Appropriate Inquiry Report in June 2021 for the City of White Plains related to the properties located at 26 East Post Road (Former Getty Gas Station), 34 East Post Road (Former Marianina Gas Station), Former 42 East Post Road (Former Medical Supply Building), Former 60 East Post Road (Former Firestone Auto Repair Site), and WPHA Excess Property in White Plains, NY as part of its due diligence in facilitating the planned garage project. B&L identified the following RECs in connection with the Site:

Contamination Sources	Spill History	Cleanup Status	Potential Migration Pathways
26 East Post Road (Former Getty Gas Station)			
Multiple petroleum releases; potential source for offsite contamination to north (22 East Post Rd)	Multiple spills; one case closed 'not meeting cleanup standards'	Residual petroleum remains in soil/groundwater	Groundwater/soil migration to adjacent parcels (north)

Contamination Sources	Spill History	Cleanup Status	Potential Migration Pathways
34 East Post Road (Former Marianina Gas Station)			
Three active USTs; multiple petroleum releases; downgradient contamination affecting WPHA property	Multiple spills; one case closed 'not meeting cleanup standards'; active spill case under consent order	Residual petroleum remains; active remediation/legal action	Groundwater migration to WPHA property
Former 42 East Post Road (Former Medical Supply Building)			
Two petroleum releases; possible residual petroleum; potential impact from 34 East Post Rd	Two spills; one case closed 'not meeting cleanup standards'	Residual petroleum possible	Groundwater migration from 34 East Post Rd
Former 60 East Post Road (Former Firestone Auto Repair Site)			
Hydraulic lift soil contamination; sump with oil/water staining	One spill; closed 'not meeting cleanup standards'	Residual petroleum possible	Potential migration from hydraulic lift area
WPHA Excess Property			
Petroleum-impacted soil and groundwater from 34 East Post Rd (Bldg 33) and 26 East Post Rd (Bldg 159)	2016 Remedial Investigation confirmed petroleum contamination	Contamination confirmed; legal action ongoing	Migration from 34 East Post Rd and 26 East Post Rd

2.4.2.2 JANUARY 2026 PHASE I ENVIRONMENTAL ASSESSMENT REPORT PREPARED BY SESI CONSULTING ENGINEERS

SESI prepared a Phase I ESA report for the East Post Road Garage Site in January 2026 and identified six (6) RECs and two (2) BERS. The RECs and BERs are listed below and described in the following sections.

RECs

- REC 1 – Documented Petroleum Releases at 26 East Post Road (Former Getty Gas Station)
- REC 2 – Documented Petroleum Releases, Consent Order, and USTs at 34 East Post Road (Former Marianina Gas Station)
- REC 3 – Documented Petroleum Releases at Former 42 East Post Road (Former Medical Supply Building)
- REC 4 – Documented Petroleum Releases at Former 60 East Post Road (Former Firestone Auto Repair Site)
- REC 5 – Documented Petroleum Releases and USTs at WPHA Excess Property and Off-Site 223-225 Dr. Martin Luther King Jr. Boulevard
- REC 6 – Off-Site Brookfield Commons Phase 3 BCP Site No. C360246

BERs

- BER 1 – Asbestos Containing Material (ACM)
- BER 2 – Lead Based Paint (LBP)

REC 1 – DOCUMENTED PETROLEUM RELEASES AT 26 EAST POST ROAD (FORMER GETTY GAS STATION)

Multiple investigations and remedial activities have been conducted at 26 East Post Road (formerly known as 26-28 East Post Road) which housed a former Getty Gas Station that had a spill under NYSDEC Spill No. 9713110. The property was used as a filling station since prior to 1930. The spill and associated remaining contamination constitute a REC associated with petroleum contamination in soil and groundwater. Initial assessments in 1998 and 2000 identified petroleum hydrocarbon impacts above regulatory standards, leading to the installation of a Dual Phase High Vacuum Extraction (DPHVE) system in 2002, which operated until 2007 and was supplemented by Enhanced Vapor/Fluid Recovery through 2009. Subsequent investigations between 2010 and 2014, including subsurface delineations, pilot studies, and pre-excavation assessments, continued to document VOC exceedances in soil and groundwater both onsite and migrating toward the adjoining WPHA property. Under a 2013 Consent Order, remedial excavation was performed in 2015, resulting in the removal of approximately 5,490 tons of petroleum-impacted soils and treatment/disposal of more than 81,500 gallons of contaminated groundwater. However, an RIR prepared for the White Plains Housing Authority (WPHA) on their adjacent property to the north of this Site indicated that petroleum compounds persisted in soil

and groundwater emanating from the Former Getty Gas Station Site and that remediation was not completed at this location.

The persistence of residual petroleum, unresolved contamination, and the potential for offsite migration collectively constituted a REC associated with 26 East Post Road (Former Getty Gas Station).

REC 2 – DOCUMENTED PETROLEUM RELEASES, CONSENT ORDER, AND USTS AT 34 EAST POST ROAD (FORMER MARIANINA GAS STATION)

Documented Petroleum Releases

Several petroleum spill incidents and investigations at the former Marianina Gas Station on this parcel constitute a REC associated with gasoline releases and related soil and groundwater impacts. This property was used as a filling station since prior to 1950. An initial spill (No. 9406684) was reported in 1994 for odors and PID readings, later closed in 1999 with the investigation and remediation to be performed under Spill No. 9713110 at 26 East Post Road (Former Getty Gas Station), but was subsequently determined in 2007 to be unrelated to that site. More recent spills include Spill No. 1509193 in 2015 for a surface gasoline release, which was closed after inspection, and Spill No. 1608924 in 2016, which remains open and identified significant soil and groundwater contamination on and downgradient of the former gas station facility. Subsequent investigations by HydroEnvironmental Solutions (HES) in 2017 confirmed petroleum-related impacts and recommended soil excavation and long-term monitoring, while a 2018 Consent Order was issued to BP/Gasmart. A 2019 Remedial Action Work Plan (2019 RAWP) prepared by GZA proposed soil excavation, groundwater removal, well installation, and monitoring, but this Work Plan was not implemented. WPHA's consultant, First Environment, Inc. raised concerns that this 2019 RAWP plan underestimated soil volumes and did not address off-Site impacts. This led to litigation by WPHA against Marianina Oil Corp., which were the owners of this gas station at the time. The NYSDEC Bulk Storage Tank database also lists three active USTs at this property, which are potential sources of ongoing or future releases. A prior RIR dated November 29, 2016, by First Environment for the WPHA in relation to its adjacent Building 33 indicated that petroleum contamination remains present beneath this property and has migrated downgradient and impacted the WPHA property to the north of the Subject Property. Spill No. 9516188 is also associated with this property, but it was a minor overfill incident that was promptly cleaned up. The combination of residual contamination, unresolved releases, and documented off-Site migration qualified as a REC.

Consent Order

NYSDEC entered into an Order on Consent Case No. Spills 16-08934.11.2018 with the owner of this parcel, Marianina Oil Corp. ("Marianina"), in August, 2021 ("2021 Order") to resolve open violations from a prior Order executed in 2017 ("2017 Order"), in which Marianina agreed to remediate contamination at their petroleum bulk storage facility located at 34 East Post Road, White Plains NY (the "Marianina Gas Station"). Marianina filed bankruptcy in the middle of the Department's enforcement action for failing to comply with the 2017 Order. The 2021 Order required Marianina to facilitate the cleanup of the Marianina Gas Station pursuant to the approved workplan attached to and incorporated into the 2021 Order (the "September 2021 HES Workplan") and to treat the remediation as a priority in the eventual Bankruptcy Plan.

In September 2022, White Plains Hospital Medical Center ("White Plains Hospital") and affiliated entity 34 EPR LLC, for the sole purpose of eventually constructing a new garage facility on this property and adjacent properties, assumed Marianina's liability in the Bankruptcy Court and in an Amended Consent Order with NYSDEC in which it agreed to purchase the 34 East Post Road parcel. The $1,250,000 purchase price was escrowed by the Seller in accordance with the Bankruptcy Court Order to facilitate the cleanup on and off this parcel within the footprint of a Spill Remediation Boundary map attached as Exhibit B in the Amended Consent Order. The Amended Consent Order further stated that if conditions on site show that contamination emanating from this spill goes beyond the map boundary, it will also have to be remediated as part of this Order with the goal of achieving the petroleum cleanup levels in the CP-51 Guidance document in all end point samples both on- and off-site within at least the Spill Remediation Boundary area shown on the map attached hereto in Exhibit B. The Amended Order further states that if the money runs out in the bankruptcy before the full Workplan can be completed, then White Plains Hospital, 34 EPR LLC, or another entity may enter into an order or apply to the New York State Brownfield Cleanup Program as appropriate to finish the remaining work, including any off-site work required therein III.

White Plains Hospital and 34 EPR LLC then hired their own consultant Woodard & Curran to further delineate the on- and off-site contamination, which led to the development of a Revised Remedial Action Work Plan approved by the NYSDEC in January 2025. SESI's understanding is that, due to significant cost increases between 2021 and 2025, that the $1,250,000 has been recently expended to perform the site preparation work to prepare the site for the subsurface remediation, including removal of the above ground gas station structures, Site grubbing, and tree and berm removal due to a significant grade change between this parcel and the WPHA

Excess Parcel, and piles installed for SOE to enable the extensive upcoming subsurface remediation to occur.

USTs

The NYSDEC Bulk Storage Tank database lists three active underground storage tanks (USTs) at 34 East Post Road (Former Marianina Gas Station). The three (3) tanks listed for East Post Road Gasmart, Inc. appear to be the same as three (3) tanks listed as administratively closed for Marianina Oil Corp. USTs represent a significant potential source of petroleum releases, and no detailed information is available regarding their age, condition, or monitoring systems. The presence of active USTs with incomplete regulatory information constitutes a REC. In addition to the known active tanks, this parcel had a long history of operations where large-volume USTs may have been present. The absence of records confirming removal, closure, or decommissioning of historical tanks raises the potential that additional petroleum releases may have occurred. The presence of active USTs constitutes a REC.

Summary

The existence of remaining contamination with an open spill case, an NYSDEC Consent Order, and active USTs collectively constituted RECs associated with 34 East Post Road (Former Marianina Gas Station).

REC 3 – DOCUMENTED PETROLEUM AT FORMER 42 EAST POST ROAD (FORMER MEDICAL SUPPLY BUILDING)

Two petroleum releases (NYSDEC Spill Nos. 0011871 and 0011872) were reported at the Former Medical Supply Building parcel at Former 42 East Post Road, both documenting the same incident involving a No. 2 fuel oil release during delivery. In March 2001, NES removed one 1,000-gallon UST, excavated and disposed of 150.19 tons of impacted soil, and recovered approximately 2,055 gallons of petroleum-impacted groundwater and product. An interception trench with a slotted screen and sump pit was installed to facilitate recovery and monitoring. A 2005 groundwater sample showed non-detectable concentrations of target analytes, and NES recommended no further action.

The potential for unresolved petroleum contamination constitutes a REC associated with Former 42 East Post Road (Former Medical Supply Building).

REC 4 – DOCUMENTED PETROLEUM RELEASES AT FORMER 60 EAST POST ROAD (FORMER FIRESTONE AUTO REPAIR SITE)

The Former Firestone Auto Repair parcel at Former 60 East Post Road has been documented as containing petroleum contamination associated with hydraulic lift equipment. The property was used as an auto repair shop since prior to 1950. This release (Spill No. 0804645) was reported to NYSDEC while the contractor C2G Environmental was removing the hydraulic lifts and found contaminated soil. They submitted an Underground Hydraulic Lift Closure Report to NYSDEC and no further action was required; however, the related spill case has been administratively closed with the designation of "not meeting cleanup standards," meaning that petroleum may remain in the subsurface. No information has been located regarding remedial actions or current soil and groundwater conditions. In addition to the documented release, a sump located in the basement of the Former 60 East Post Road building was observed during this Phase I investigation to contain water and oil staining of unknown origin. While the staining may be related to the hydraulic lift release, it could also represent a separate, unidentified source of petroleum contamination. The facility was also classified as "Not a generator" of hazardous waste but has historically operated as a Small Quantity Generator. Waste codes associated with the site include ignitable waste (D001), metals such as cadmium (D006), chromium (D007), lead (D008), selenium (D010), and tetrachloroethylene (D039), indicating potential past use or management of hazardous materials even though records show no reported violations, enforcement actions, or corrective action requirements.

Based on the most recently available records, Former 60 East Post Road (Former Firestone Auto Repair Site) is listed as an active petroleum bulk storage site with six aboveground tanks: Tank 001: 500 gallons (motor oil), Tank 002: 285 gallons (waste/used oil), Tank 003: 120 gallons (motor oil), Tank 004: 120 gallons (motor oil), Tank 005: 120 gallons (lube oil), and Tank 006: 120 gallons (motor oil). Most tanks have leak detection and secondary containment, though some lack overfill/spill safeguards. The tanks were not observed during the Site reconnaissance.

The combination of unresolved subsurface impacts, past hazardous waste generation, past ASTs, and the presence of uncharacterized staining indicates ongoing environmental risk that collectively constitute a REC associated with Former 60 East Post Road (Former Firestone Auto Repair Site).

REC 5 – DOCUMENTED PETROLEUM RELEASES AND USTS AT WPHA EXCESS PROPERTY AND OFF-SITE 223-225 DR. MARTIN LUTHER KING JR. BOULEVARD

The WHPA has two (2) 20,000-gallon active fuel oil tanks with a spill history. A ground-penetrating radar investigation performed in 2025 confirmed the location of these USTs to the north of the Site boundary at 223-225 Dr. Martin Luther King Jr. Boulevard and identified a potential UST anomaly on the WPHA Excess Property that may or may not be a UST. The WPHA two (2) 20,000-gallon USTs are registered with New York State as PBS No. 3-493597.

The WPHA had a Spill No. 9912180 of #4 fuel oil in January 2000 during a delivery of oil to one of their large fuel oil tanks located adjacent to Building 33. The spill file was not closed until May 2000. Winbrook Housing had additional listings associated with tank test failures for the two (2) 20,000-gallon USTs, including Spill No. 0207150, Spill No. 8904683, and Spill No. 1007861.

The presence of active USTs immediately adjacent to the north of the Subject Property, the suspected presence of a UST on the WPHA Excess Property, and the potential that residual contamination remains off-Site that may have impacted the Site as a result of the off-site spills collectively constituted a REC associated with WPHA Excess Property and off-site 223-225 Dr. Martin Luther King Jr. Boulevard.

REC 6 – OFF-SITE BROOKFIELD COMMONS PHASE 3 BCP SITE NO. C360246

The western 1.284-acre portion of the WPHA property (159 Lexington Avenue), which is north of 26 East Post Road (Former Getty Gas Station), has been entered into the BCP with chlorinated solvent contamination resulting from a prior upholstery and/or auto repair uses or off-site dry cleaner uses. The most recent on-line report suggests that deep bedrock groundwater flow direction may be southwest potentially onto the Site. This type of contamination may cause vapor intrusion on the Site, and therefore constitutes a REC.

BER 1 – ASBESTOS CONTAINING MATERIAL (ACM)

ACM screening was not conducted as part of the Phase I Environmental Site Assessment. Based on the age of the structures located on the BCP Site, the possibility of presence of ACM cannot be ruled out.

BER 2 – LEAD BASED PAINT (LBP)

LBP screening was not conducted as part of the Phase I Environmental Site Assessment. Based on the age of the structures located on the BCP Site, the possibility of presence of LBP cannot be ruled out.

All Sanborn Maps available for this Site were reviewed prior to preparation of the RAWP.

2.4.2.3 MARCH 2017 SUBSURFACE INVESTIGATION REPORT, PREPARED BY HYDROENVIRONMENTAL SOLUTIONS, INC. FOR 34 EAST POST ROAD (FORMER MARIANINA GAS STATION)

After the 2016 First Environment RIR was submitted to NYSDEC, and after an investigation was performed at 26 East Post Road (Former Getty Gas Station) in relation to Spill No. 97-13110, which showed that there was contamination emanating from the western side of 34 East Post Road (Former Marianina Gas Station) toward 26 East Post Road (Former Getty Gas Station), NYSDEC entered into its first Consent Order with Marianina Oil Corp. (Marianina) in 2017 ("2017 Order") in relation to Spill No. 16-08924, which is still open. An investigation by HydroEnvironmental Solutions (HES) was performed on behalf of Marianina, which confirmed petroleum-related impacts in soil and groundwater at 34 East Post Road (Former Marianina Gas Station) and recommended soil excavation and long-term groundwater monitoring. The results of this investigation were as follows:

- Soil screening laboratory analyses completed during SI activities at the subject property indicate that petroleum impacts exist in soil and groundwater related to gasoline and not diesel fuel.
- Concentrations of ethylbenzene (32,000 µg/kg), isopropylbenzene (4,500 µg/kg), n-propylbenzene (18,000 µg/kg), 1,2,4-trimethylbenzene (16,000 µg/kg), and xylene (11,200 µg/kg) exceeded their respective UUSCOs in soil sample GB-3 TW(4-8);
- Concentrations of n-propylbenzene (6,000 µg/kg), 1,2,4-trimethylbenzene (37,000 µg/kg), 1,3,5-trimethylbenzene (9,500 µg/kg), and xylenes (6,400 µg/kg) exceeded their respective UUSCOs in soil sample GB-7 (8-12);
- Concentrations of lead were detected in soil samples GB-3 TW (4-8) (4 µg/kg), GB-6 (4-8) 9.39 µg/kg and GB-7 (8-12) (3.96 µg/kg), which are below the UUSCO of 63 µg/kg;
- The results of the groundwater samples, specifically in temporary well GB-1, indicated significant concentrations of VOCs and SVOCs above their respective AWQS.

There was allegedly another 2018 Consent Order ("2018 Order"), likely to perform the Spill No. 1608924 remediation, but Marianina did not subsequently implement the HES 2017 RAWP recommended remedial work. Marianina filed bankruptcy in 2020 in the middle of the Department's enforcement action for failing to comply with the 2017 Order and 2018 Order. NYSDEC then entered into a new 2021 Order on Consent Case No. SPILLS 16-08934.11.2018 with the Marianina in August, 2021 ("2021 Order") to resolve open violations from the prior 2017 Order, in which Marianina agreed to remediate the contamination pursuant to an approved workplan attached to and incorporated into the 2021 Order (the "September 2021 HES Workplan"), which is described below, and to treat the remediation as a priority in the eventual Bankruptcy Plan.

2.3.2.4 2020 AND 2022 REMEDIAL INVESTIGATIONS, COMPLETED BY WOODARD & CURRAN FOR 34 EAST POST ROAD (FORMER MARIANINA GAS STATION) AND PART OF WPHA EXCESS PROPERTY

In September 2022, White Plains Hospital Medical Center ("White Plains Hospital") and affiliated entity 34 EPR, LLC decided to become more actively involved in the planned garage project. To expedite the project, they hired Woodard & Curran to further delineate the on- and off-site contamination and to develop a cost estimate for remediation, which would become the purchase price for 34 East Post Road (Former Marianina Gas Station) in the bankruptcy proceeding. White Plains Hospital and 34 EPR, LLC, for the sole purpose of eventually constructing a new garage facility on this property and adjacent properties, assumed Marianina's liability in the Bankruptcy Court and in an Amended Consent Order with NYSDEC in which it agreed to purchase 34 East Post Road (Former Marianina Gas Station). The $1,250,000 purchase price was escrowed by the Seller in accordance with the Bankruptcy Court Order to facilitate the cleanup on and off this parcel within the footprint of a Spill Remediation Boundary map attached as Exhibit B in the Amended Consent Order. The Amended Consent Order further stated that if conditions on the 34 East Post Road parcel show that contamination emanating from this spill goes beyond the map boundary it will also have to be remediated as part of this Order with the goal of achieving the petroleum cleanup levels in the CP-51 Guidance document in all end point samples both on- and off-site within at least the Spill Remediation Boundary area shown on the map attached hereto in Exhibit B. The Amended Order further stated that if the money runs out in the bankruptcy before the full Workplan can be completed, then White Plains Hospital, 34 EPR LLC, or another entity may enter into an order or apply to the New York State Brownfield Cleanup Program, as appropriate, to finish the remaining work, including any off-site work required therein and

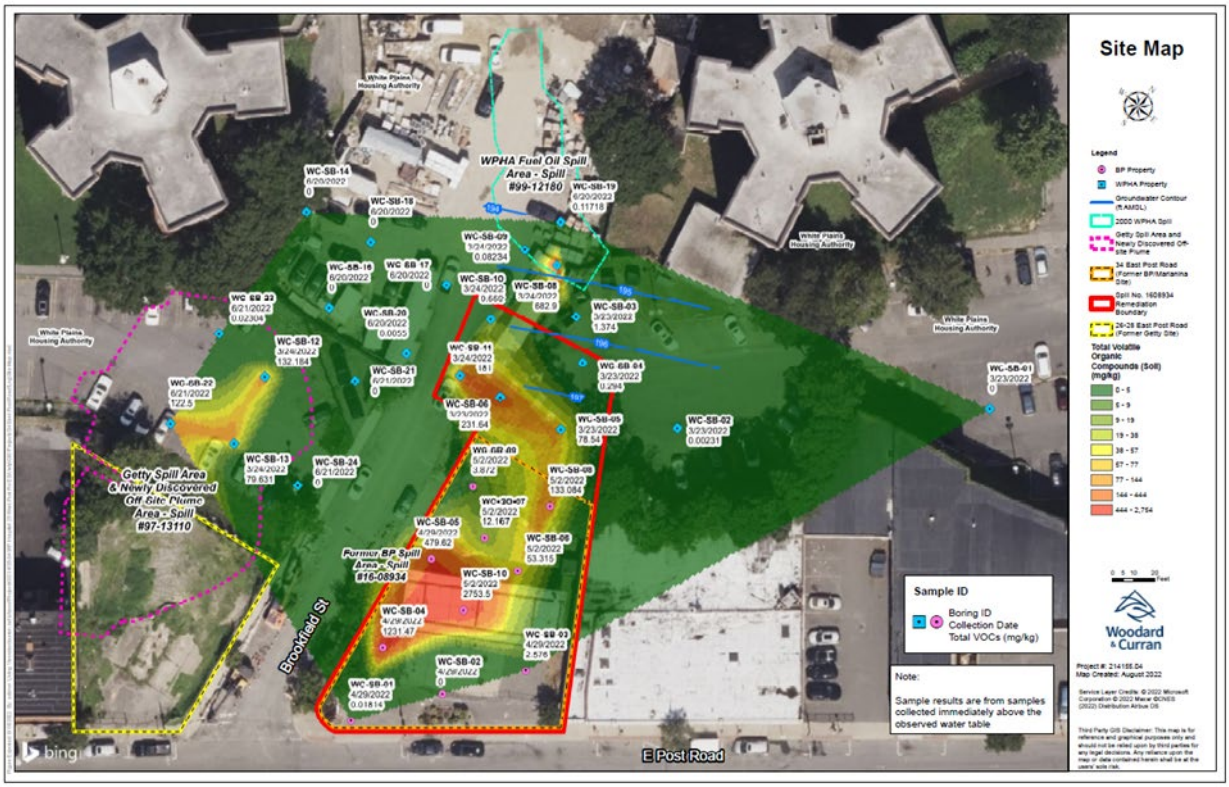
Paragraph I.2. of the 2021 original Marianina Consent Order was removed and replaced with the following:

> *White Plains Hospital, 34 EPR LLC, or another entity may enter into an order or apply to the New York State Brownfield Cleanup Program as appropriate to finish the remaining work, including any off-site work required therein, utilizing the approved Workplan attached hereto in Exhibit B that is subject to the Order, to ensure the required work is completed. Post remediation groundwater monitoring will be subject to final department approval. If additional remediation is required beyond Spill Remediation Boundary shown on the map in Exhibit B that is not related to this spill on the White Plains Housing Authority property or elsewhere, subject to access approval from any off-site property owner(s) at the time, then those areas would be eligible to apply to the Brownfield Cleanup Program.*

Paragraph I.4. of the 2021 original Marianina Consent Order was removed and replaced with the following:

> *This Order shall not terminate until the work for the cleanup has been completed, or the Department enters into a subsequent order or Brownfield Cleanup Agreement with White Plains Hospital, 34 EPR LLC or a new entity to complete any remaining work, including any off-site work.*

The map that was included in the Amended Consent Order as Exhibit B is as follows:



SESI was provided with figures and tables showing soil and groundwater data from the subsurface investigation completed by Woodard & Curran in 2022 for 34 East Post Road (Former Marianina Gas Station) and part of the WPHA property. Based on the provided figures and tables, SESI determined that 54 soil samples and 19 groundwater samples were collected from within the boundaries of the Subject Property and are listed in the table below.

Date	**Boring ID**	**Sample ID**	**Matrix**	**Depth / Screen (ft-bgs)**	**Analysis**
WPHA Excess Property					
3/23/2022	WC-SB-01	WC-SB-01 (0.1-1.25')	Soil	0.1-1.25	VOCs SVOCs
		WC-SB-01 (5-6.5')		5.0-6.5	DRO/GRO

Date	Boring ID	Sample ID	Matrix	Depth / Screen (ft-bgs)	Analysis
3/23/2022	WC-SB-02	WC-SB-02 (0.75-2')		0.75-2.0	
		WC-SB-02 (5-6')		5.0-6.0	
3/23/2022	WC-SB-03	WC-SB-03 (0.75-2')		0.75-2.0	
		WC-SB-03 (6-7.5')		6.0-7.5	
3/23/2022	WC-SB-04	WC-SB-04 (1-2')		1.0-2.0	
		WC-SB-04 (6-7.5')		6.0-7.5	
3/23/2022	WC-SB-05	WC-SB-05 (0.75-2')		0.75-2.0	
		WC-SB-05 (5-6.5')		5.0-6.5	
3/23/2022	WC-SB-06	WC-SB-06 (0.75-2')		0.75-2.0	
		WC-SB-06 (5-6.5')		5.0-6.5	
3/24/2022	WC-SB-08	WC-SB-08 (0.75-2')		0.75-2.0	
		WC-SB-08 (5-7')		5.0-7.0	
3/24/2022	WC-SB-10	WC-SB-10 (0.75-2')		0.75-2.0	
		WC-SB-10 (5-6.5')		5.0-6.5	
3/24/2022	WC-SB-11	WC-SB-11 (0.75-2')		0.75-2.0	
		WC-SB-11 (5-6.5')		5.0-6.5	
3/24/2022	WC-SB-12	WC-SB-12 (0.75-2')		0.75-2.0	
		WC-SB-12 (5-6.5')		5.0-6.5	

Date	Boring ID	Sample ID	Matrix	Depth / Screen (ft-bgs)	Analysis
3/24/2022	WC-SB-13	WC-SB-13 (0.75-2')		0.75-2.0	
		WC-SB-13 (5-6.5')		5.0-6.5	
6/20/2022	WC-SB-16	WC-SB-16 (0-2')		0.0-2.0	
		WC-SB-16 (5-7')		5.0-7.0	
6/21/2022	WC-SB-20	WC-SB-20 (0-2')		0.0-2.0	
		WC-SB-20 (4-6')		4.0-6.0	
6/21/2022	WC-SB-21	WC-SB-21 (0-2')		0.0-2.0	
		WC-SB-21 (5-7')		5.0-7.0	
6/21/2022	WC-SB-22	WC-SB-22 (0-2')		0.0-2.0	
		WC-SB-22 (3.5-5.5')		3.5-5.5	
6/21/2022	WC-SB-23	WC-SB-23 (0-2')		0.0-2.0	
		WC-SB-23 (6-8')		6.0-8.0	
6/21/2022	WC-SB-24	WC-SB-24 (0-2')		0.0-2.0	
		WC-SB-24 (4-6')		4.0-6.0	
3/20/2022	-	MW-201	Groundwater	4.0-10.0	VOCs SVOCs DRO/GRO
3/21/2022	-	MW-202		10.0-20.0	
3/21/2022	-	MW-203		5.0-15.0	
3/24/2022	-	MW-205		5.0-15.0	

Date	Boring ID	Sample ID	Matrix	Depth / Screen (ft-bgs)	Analysis
3/23/2022	WC-SB-01	WC-MW-01		N/A	
3/23/2022	WC-SB-02	WC-MW-02		N/A	
3/24/2022	WC-SB-12	WC-MW-03		N/A	
3/24/2022	WC-SB-13	WC-MW-04		N/A	
6/22/2022	WC-SB-16	WC-TW-16		N/A	
6/22/2022	WC-SB-21	WC-TW-21		N/A	
6/21/2022	WC-SB-22	WC-TW-22		N/A	
6/21/2022	WC-SB-23	WC-TW-23		N/A	
6/22/2022	WC-SB-24	WC-TW-24		N/A	
34 East Post Road (Former Marianina Gas Station)					
4/29/2022	WC-SB-01	WC-SB-01 (2-3')	Soil	2.0-3.0	VOCs SVOCs DRO/GRO
4/29/2022		WC-SB-01 (5-6')		5.0-6.0	
4/29/2022	WC-SB-02	WC-SB-02 (1-2')		1.0-2.0	
4/29/2022		WC-SB-02 (11-12')		11.0-12.0	
4/29/2022	WC-SB-03	WC-SB-03 (1-2')		1.0-2.0	
4/29/2022		WC-SB-03 (7-8')		7.0-8.0	
4/29/2022	WC-SB-04	WC-SB-04 (1-2.25')		1.0-2.25	
4/29/2022		WC-SB-04 (7-8')		7.0-8.0	

Date	Boring ID	Sample ID	Matrix	Depth / Screen (ft-bgs)	Analysis
4/29/2022	WC-SB-05	WC-SB-05 (1-2')		1.0-2.0	
4/29/2022		WC-SB-05 (7-8')		7.0-8.0	
5/2/2022	WC-SB-06	WC-SB-06 (0.75-2')		0.75-2.0	
5/2/2022		WC-SB-06 (7-8.25')		7.0-8.25	
5/2/2022	WC-SB-07	WC-SB-07 (0.75-2')		0.75-2.0	
5/2/2022		WC-SB-07 (6.5-7')		6.5-7.0	
5/2/2022	WC-SB-08	WC-SB-08 (0.75-2')		0.75-2.0	
5/2/2022		WC-SB-08 (7-8.5')		7.0-8.5	
5/2/2022	WC-SB-09	WC-SB-09 (0.75-2')		0.75-2.0	
5/2/2022		WC-SB-09 (6-7.25')		6.0-7.25	
5/2/2022	WC-SB-10	WC-SB-10 (0.75-2')		0.75-2.0	
5/2/2022		WC-SB-10 (6-7.5')		6.0-7.5	
4/29/2022	WC-SB-01	WC-MW-01	Groundwater	N/A	VOCs SVOCs DRO/GRO
4/29/2022	WC-SB-02	WC-MW-02		N/A	
4/29/2022	WC-SB-05	WC-MW-03		N/A	
5/2/2022	WC-SB-07	WC-MW-04		N/A	
5/2/2022	WC-SB-09	WC-MW-05		N/A	
5/2/2022	WC-SB-10	WC-MW-06		N/A	

Soil analytical results indicate the presence of multiple VOCs and semi-volatile organic compounds (SVOCs) at concentrations exceeding the applicable NYSDEC CUSCO, RRUSCO, and/or PGWSCO. Elevated VOCs included 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, benzene**,** ethylbenzene**,** n-butylbenzene, n-propylbenzene, naphthalene, sec-butylbenzene, toluene, and total xylenes in one or more soil samples. Elevated SVOCs included benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene**,** indeno(1,2,3-cd)pyrene, and naphthalene. Soil impacts at the WPHA Excess Property were identified between 0.1 and 7.0 ft bgs in the following eight (8) soil borings: WC-SB-01, WC-SB-05, WC-SB-06, WC-SB-08, WC-SB-11, WC-SB-12, WC-SB-13, and WC-SB-22. Soil impacts at 34 East Post Road (Former Marianina Gas Station) were identified between 0.75 and 8.5 ft bgs in the following seven (7) soil borings: WC-SB-04 through WC-SB-10. Two areas of soil and groundwater impacts were noted in the WPHA Excess Property, including one to the north (downgradient) of 34 East Post Road (Former Marianina Gas Station) and one to the north (downgradient) of 26 East Post Road (Former Getty Gas Station).

Groundwater analytical results indicate the presence of several VOCs and SVOCs in excess of the NYSDEC Ambient Water Quality Standards and Guidance Values (AWQSGV). Elevated VOCs included benzene, toluene, ethylbenzene, p/m-xylene, o-xylene, n-butylbenzene, sec-butylbenzene, isopropylbenzene, p-isopropylbenzene, n-propylbenzene, 1,2,4-trimethylbenzene, 1,2,4,5-trimethylbenzene, 1,3,5-trimethylbenzene, and naphthalene. Elevated SVOCs primarily consisted of PAHs including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, indeno(1,2,3-cd)pyrene. Bis(2-ethylhexyl)phthalate was identified in select samples in excess of the AWQSGV. Naphthalene and hexachlorobenzene were also identified as SVOCs in select samples. Groundwater impacts were identified in the following samples: WC-MW-01, WC-MW-02, WC-MW-03, WC-MW-04, WC-MW-06, WC-TW-16, WC-TW-21, WC-TW-22, WC-TW-23, WC-TW-24, MW-201, MW-203, and MW-205 (TEMP). It should be noted that some duplicate sample IDs were collected on separate parcels with the site as summarized in the table above and in **Figure 4.2**.

2.5 Geologic and Hydrogeologic Conditions

Based on the findings observed during this RI and a geotechnical investigation completed by SESI in 2025, the subsurface conditions at the Site generally consist of surficial fill, underlain by glacial till, over decomposed bedrock, over sound bedrock. The NY State Geologic Survey has mapped the Site bedrock as Inwood Marble (“Bedrock Geology of the White Plains 7.5-Minute

Quadrangle," dated 2024). There are other bedrock types mapped very close-by, including Yonkers Gneiss, Manhattan Schist, and Phlogopitic Marble. The bedrock geology in this area is complicated by intense tectonic activity in the past, including contact zones and thrust faults. The following strata are described in the order of increasing depth.

Uncontrolled fills were encountered at the ground surface in most of the boring locations. The fill generally consists of a variable mixture of gravel, sand, silt, and clay, with some debris mixed in. The fill generally extends to a depth of 5 to 15 ft bgs.

Glacial till is present throughout much of the Site below the uncontrolled fill. It typically exists as a wedge. It is approximately 10 to 17 feet thick at the east end of the site and it pinches out (it is not present) at about the location of Brookfield Street. The glacial till consists of silty and gravelly sands and is in a dense to very dense condition. Where present, the glacial till directly overlies either decomposed bedrock or hard, sound bedrock.

Weathered and decomposed bedrock is present throughout much of the Site, and it is thickest towards the south. It is not present in the northern portion of the site, where hard sound bedrock exists directly below the glacial till. The decomposed bedrock is weathered granite. It is in a very dense condition and was difficult to drill through. Samples obtained are silty and gravelly sands and are the result of the tricone bit grinding through the decomposed bedrock.

Three (3) different types of bedrock were encountered on this site during the geotechnical investigation: gneiss, schist, and granite. Inwood Marble, which is the mapped bedrock type, as not encountered. In the north and west portions of the Site, competent bedrock consists of Fordham Gneiss, although in the northeast portion of the site, decomposed mica schist bedrock was encountered. In the southwest portion of the Site, competent bedrock consists of Fordham Gneiss, but this changes to granite towards the east. In the east and southeast portions of the site, the competent bedrock includes granite, Fordham Gneiss, and mica schist. This tri-mixture of bedrock types in such a small area is a result of the intense tectonic activity in the past.

During the RI and previous investigations, groundwater was encountered in the overburden zone at approximately 5 to 7 ft bgs in temporary wells. Based on previous investigations, the inferred direction of groundwater flow follows the topography and is to the northerly direction across the Site.

2.6 Contamination Conditions

2.6.1 CONCEPTUAL MODEL OF SITE CONTAMINATION

A Conceptual Site Model (CSM) was developed for the Site to identify potential sources of contamination, types of contaminants and affected media, potential contaminant pathways, and actual/potential human and environmental receptors.

2.6.1.1 Potential Sources of Contamination

As reported in the previous environmental reports, the sources of petroleum-related VOC and SVOC impacts to soil, groundwater, and soil vapor include former on-Site gas stations and an auto repair shop. Former gas stations with reported spills operated at 26 East Post Road (Former Getty Gas Station) and 34 East Post Road (Former Marianina Gas Station). A former auto repair shop with a spill associated with the hydraulic lift equipment operated at Former 60 East Post Road (Former Firestone Auto Repair Site).

Potential sources of non-petroleum impacts to soil and groundwater, including other VOCs, SVOCs, pesticides, PCBs, metals, and PFAS, include historic site operations and the buildings that existed before the 1950s, or from historic fill placement during previous redevelopment prior to the 1950s.

2.6.1.2 **TYPES OF CONTAMINANTS AND AFFECTED MEDIA**

Impacted media include soil, groundwater, and soil vapor.

Petroleum-impacted soil and fill with VOCs and SVOCs at concentrations above CUSCOs, RRUSCO, and/or PGWSCOs were identified at depths up to 11 ft bgs, and at concentrations above UUSCOs at depths up to 13 ft bgs.

Soil and fill with non-petroleum VOCs, SVOCs, pesticides, PCBs, metals, and/or PFAS impacts at concentrations above CUSCOs, RRUSCO, and/or PGWSCOs were identified at depths up to 11 ft bgs, and at concentrations above UUSCOs at depths up to 18.5 ft bgs.

Groundwater impacted by VOCs, SVOCs, metals, PCBs, and/or PFAS with concentrations exceeding the applicable AWQSGVs was identified in each of the 18 wells sampled during the RI.

Soil vapor impacted by petroleum-related VOCs with concentrations exceeding their respective NYSDOH Decision Matrix thresholds to monitor or mitigate were identified in two (2) soil vapor samples.

2.6.1.3 **POTENTIAL CONTAMINANT PATHWAYS**

Soil, groundwater, and soil vapor at the Site have been shown to be contaminated. The Site is improved by parking areas and several vacant buildings. Some areas of the Site, especially landscaped areas in the WPHA Excess Property in the northern part of the Site and the former Getty Gas Station in the southwestern part of the Site, are not paved.

Exposure to contaminated soil is possible during any ground-intrusive activity or by disturbing the ground in the unpaved areas. Groundwater in this area of White Plains is not used as a source of drinking water, and so exposure to contaminated groundwater would only be possible during groundwater sampling associated with Site investigation. VOCs detected in soil vapor can result in soil vapor intrusion into the current and future on-Site buildings.

2.6.1.4 **ACTUAL/POTENTIAL HUMAN AND ENVIRONMENTAL RECEPTORS**

The northern part of the Site is an active parking lot for the associated WPHA property, and the southern part of the Site is partially vacant and partially a public roadway. Parts of the Site are currently accessible to the public but are paved. No environmental receptors are present at the Site.

Under future conditions during construction and remediation, human receptors would include construction workers and authorized visitors.

However, the planned remediation in this RAWP will protect these human receptors by implementation of the HASP, CAMP, and dust and VOC control measures to avoid exposure.

Following remediation with the planned Track 1 remedy, the Site's current potential pathways for exposure should be eliminated. Since the proposed use on this Site is will be an open-air garage, a vapor intrusion evaluation will not be needed.

2.6.2 IDENTIFICATION OF STANDARDS, CRITERIA AND GUIDANCE

The following standards, criteria, and guidance are typically applicable to Remedial Action projects in New York State, and will be consulted and adhered to as applicable:

- 6 NYCRR Part 364 - NYS Waste Transporter Permits
- 6 NYCRR Part 360 - NYS Solid Waste Management Requirements
- 6 NYCRR Part 371 - Identification and Listing of Hazardous Wastes
- 6 NYCRR Part 372 - Hazardous Waste Manifest System and Related Standards for Generators, Transporters and Facilities
- 6 NYCRR Subpart 374-2 - Standards for the Management of Used Oil
- 6 NYCRR Part 375 - Environmental Remediation Programs
- 6 NYCRR Part 376 - Land Disposal Restrictions
- 6 NYCRR Part 613 - Petroleum Bulk Storage
- 6 NYCRR Part 661 - Tidal Wetlands - Land Use Regulations
- 6 NYCRR Part 663 - Freshwater Wetlands - Permit Requirements
- 6 NYCRR Parts 700-706 – Classes and Standards of Quality and Purity
- 6 NYCRR Part 750 - State Pollutant Discharge Elimination System (SPDES) Permits
- 29 CFR Part 1910.120 - Hazardous Waste Operations and Emergency Response
- 40 CFR Part 144 - Underground Injection Control Program
- CP-43 - Commissioner Policy on Groundwater Monitoring Well Decommissioning (December 2009)
- CP-49 – Climate Change and DEC Action (2022)
- CP-51- Soil Cleanup Guidance (2010)
- CP-60 – Screening and Assessment of Contaminated Sediment (2014)
- DER-2 - Making Changes to Selected Remedies (April 2008)

- DER-4 – Management of Coal Tar Waste & Coal Tar Contaminated Soils from Manufactured Gas Plants (2001)
- DER-10 – Technical Guidance for Site Investigation and Remediation (2010)
- DER-13 – Strategy for Evaluating Soil Vapor Intrusion at Remedial Sites in New York (2006)
- DER-23 – Citizen Participation Handbook for Remedial Programs (2010)
- DER-31 – Green Remediation (2010)
- DER-32 – Brownfield Cleanup Program Applications and Agreements (2017)
- DER-33 – Guide to Drafting and Recording Institutional Controls (2010)
- TAGM 3028 - "Contained In" Criteria for Environmental Media: Soil Action Levels (August 1997)
- TOGS 1.1.1 - Ambient Water Quality Standards & Guidance Values and Groundwater Effluent Limitations (1998, Addenda 2000, 2004 and 2023)
- TOGS 1.3.8 - New Discharges to Publicly Owned Treatment Works (1994)
- TOGS 2.1.2 - Underground Injection/Recirculation (UIR) at Groundwater Remediation Sites (1990)
- New York State Standards and Specifications for Erosion and Sediment Control (2016)
- DAR-1 (formerly Air Guide 1) - Guidelines for the Control of Toxic Ambient Air Contaminants (1997)
- U.S. EPA OSWER Directive 9200.4-17 - Use of Monitored Natural Attenuation at Superfund, RCRA Corrective Action, and Underground Storage Tank Sites (December 1997)
- New York State Department of Health (NYSDOH) Generic Community Air Monitoring Plan
- NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (2006)

- New York State Climate Act (2019)
- NYSDEC Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (2023)

2.6.3 SUMMARY OF SOIL OF CONTAMINATION

For purposes of evaluating the remedial alternatives associated with the proposed Site remediation and redevelopment, the analytical results of the soil samples were compared to the 6 NYCRR Section 375-6.8(a-b) CUSCOs, RRUSCOs, UUSCOs, and PGWSCOs.

VOCs

Several VOCs, including 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, acetone, benzene, ethylbenzene, m,p-xylene, naphthalene, n-butylbenzene, n-propylbenzene, toluene, and total xylenes, were detected at concentrations exceeding their respective CUSCOs, RRUSCOs, UUSCOs and/or PGWSCOs in one or more samples at depths to 13.0 ft bgs. VOC impacted soils exceeding CUSCOs, RRUSCOs and PGWSCOs extend to 11.0 ft bgs in certain areas. VOC impacted soils exceeding UUSCOs extend to 13.0 ft bgs in certain areas.

SVOCs

Several PAHs, including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene and naphthalene, were detected at concentrations exceeding their respective CUSCOs, RRUSCOs, UUSCOs, and/or PGWSCOs in one or more samples at depths to 12.5 ft bgs. SVOC impacted soils exceeding CUSCOs, RRUSCOs and PGWSCOs extend to 11.0 ft bgs in certain areas. SVOC impacted soils exceeding UUSCOs extend to 12.5 ft bgs in certain areas.

Pesticides

Several pesticides, including 4,4’-DDD, 4,4'-DDE, 4,4'-DDT and Dieldrin, were detected at concentrations exceeding their respective UUSCOs in one or more samples at depths to 11.0 ft bgs.

Total Metals

Several metals, including arsenic, barium, copper lead, mercury, nickel and zinc, were detected at concentrations exceeding their respective CUSCOs, RRUSCOs, UUSCOs and/or PGWSCOs in one or more samples at depths to 18.5 ft bgs. Metal impacted soils exceeding the CUSCOs,

RRUSCOs, and PGWSCOs extend to 10.0 ft bgs in certain areas. Metal impacted soils exceeding the UUSCOs extend to 18.5 ft bgs in certain areas.

PCBs

One (1) PCB, including Aroclor 1260, was detected at concentrations exceeding the UUSCO in two samples at depths to 3.0 ft bgs. Aroclor 1260 was detected at a maximum concentration of 0.163 mg/kg in sample SB-34 (2.5-3 ft bgs) and 0.151 mg/kg in sample SB-35 (0.5-1 bgs).

PFAS

PFAS compounds were detected at concentrations exceeding the NY guidance UUSCOs for one (1) PFAS compound in soil, PFOS, per the NYSDEC Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances under NYSDEC's Part 375 Remedial Programs, April 2023 (PFAS Guidance).

RIR Tables 5.1 through 5.6 in **Appendix C** shows exceedances from Track 1 UUSCOs for all soil/fill at the Site. RIR Figure 4.1 in **Appendix A** is a spider map that shows the location and summarizes exceedances from Track 1 UUSCOs for all soil/fill.

2.6.4 SUMMARY OF GROUNDWATER CONTAMINATION

The following constituent concentrations in groundwater were compared to the applicable NYSDEC TOGS Class GA AWQS and exceeded the AWQS:

VOCs

Several VOCs, including 1,2,4,5-tetramethylbenzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 2-butanone (MEK), acetone, benzene, ethylbenzene, isopropylbenzene, naphthalene, n-butylbenzene, n-propylbenzene, o-xylene, p/m-xylene and sec-butylbenzene, were detected at concentrations exceeding their respective NYSDEC TOGS Class GA AWQS in one or more samples.

SVOCs

Several SVOCs, including Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl)phthalate, Chrysene, Indeno(1,2,3-cd)pyrene and Naphthalene, were detected at concentrations exceeding their respective NYSDEC TOGS Class GA AWQS in one or more samples.

Pesticides

Pesticides were not detected at concentrations exceeding their respective NYSDEC TOGS Class GA AWQS in any sample.

Total Metals

Several metals, including total arsenic, barium, beryllium, cadmium, chromium, copper, iron, lead, magnesium, manganese, mercury, nickel, selenium, sodium, thallium and zinc, were detected at concentrations exceeding their respective NYSDEC TOGS Class GA AWQS in one or more samples.

PCBs

One (1) PCB, Aroclor 1260, was detected at concentrations exceeding its respective NYSDEC TOGS Class GA AWQS in sample TW-7 at 0.238 ug/l.

PFAS

PFAS species PFOA and PFOS were detected at concentrations exceeding their respective human health criteria of 6.7 ppt and 2.7 ppt or maximum contaminant level (MCL) of 10 ppt, respectively, as provided in the PFAS Guidance for all of the groundwater samples with a maximum concentration of 0.0892 ug/L.

A table that indicates exceedances of Class GA Ambient Water Quality Standards (AWQS) in monitoring wells prior to the remedy is shown in RIR Tables 5.13 through 5.18 in **Appendix C**. A spider map that indicates the location(s) of and summarizes exceedances of AWQS prior to the remedy is shown in RIR Figure 4.2 in **Appendix A**.

2.6.5 SUMMARY OF SOIL VAPOR CONTAMINATION

For purposes of evaluating potential soil vapor intrusion, the soil vapor sample results were compared to the applicable NYS DOH Soil Vapor Guidance - Matrix A-F Soil Vap. Low (NYS SVI GUIDE 2/24) and NYS DOH Soil Vapor Guidance - Matrix A-F Soil Vap. High (NYS SVI GUIDE 2/24).

Several VOCs, including 2,2,4-trimethylpentane, benzene, cyclohexane, ethylbenzene, heptane, n-hexane, p/m-xylene and tetrachloroethene, were detected at concentrations exceeding the NY-Soil Vapor screening levels in Matrices A-F in one or more samples.

A table of soil vapor data collected prior to the remedy is shown in RIR Table 5.24 in **Appendix C**. A spider map that indicates the location(s) of and summarizes soil vapor data prior to the remedy is shown in RIR Figure 4.3 in **Appendix A**. However, as noted above, this will be an open-air garage with no enclosed spaces; therefore, a soil vapor evaluation will not be required.

2.7 Environmental and Public Health Assessments

2.7.1 QUALITATIVE HUMAN HEALTH EXPOSURE ASSESSMENT

This exposure assessment discusses potential migration routes by which contaminants in the environment may be able to reach human receptors in accordance with NYSDEC DER-10 sections 3.14(c)17, 3.3(c)4 and Appendix 3B. This discussion is based on current and hypothetical future Site conditions.

An exposure assessment must evaluate five (5) elements that comprise an exposure pathway. A complete exposure pathway includes the following:

1. Contaminant source
2. Contaminant transport mechanism
3. Potential exposure point
4. Exposure route
5. Receptor population

Under current conditions, a complete exposure pathway exists for impacted soil and soil vapor.

Impacted soil is present in unpaved areas on the Getty Station Site at shallow depths but is covered with grass. The exposure pathway for impacted soil to humans is through direct dermal contact with the contaminated soil or by incidental ingestion. The impacted soil will be fenced in once the project commences and will be removed during future remediation activities associated with Site redevelopment.

Impacted soil vapor is present near existing vacant buildings. The exposure pathway for impacted soil vapor to humans under current conditions is through inhalation of the contaminated soil vapor that may intrude into the enclosed spaces of the existing buildings if they were occupied, but they are vacant. The sources of impacted soil vapor, including impacted soil and groundwater, will be removed during future remediation activities associated with Site redevelopment. Since this will be an open-air garage, a vapor intrusion evaluation will not be needed.

The commingled petroleum plumes originating from 26 East Post Road (Former Getty Gas Station) and 34 East Post Road (Former Marianina Gas Station) are moving in the northern direction onto the WPHA Excess Property toward the northern property boundary, but the plumes appear to dissipate right before the Site boundary. There are two active 20,000-gallon fuel tanks on the north-adjacent property that are over 70 years old with a history of tank failures. These USTs present an additional potential source of groundwater and soil vapor contamination in the northern part of the Site but SOE will be installed to protect these tanks and also to prevent any impact from the tanks onto the Site.

2.7.2 FISH & WILDLIFE REMEDIAL IMPACT ANALYSIS

The Site does not contain any ecologically sensitive resources or nearby fish or wildlife receptors and hence the Site contamination is not expected to have any impacts on any ecological resources. The closest bodies of water to the Site are the Bronx River, which is approximately 0.409 miles northwest from the Site and Bloomingdale Pond, which is approximately 0.620 miles east from the Site. The Site is not located in a flood zone.

2.8 Remedial Action Objectives

Based on the results of the Remedial Investigation, the following Remedial Action Objectives (RAOs) have been identified for this Site.

2.8.1 GROUNDWATER

RAOs for Public Health Protection

- Prevent ingestion of groundwater containing contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of, volatiles emanating from contaminated groundwater.

RAOs for Environmental Protection

- Restore ground water aquifer, to the extent practicable, to pre-disposal/pre-release conditions.
- Remove the source of ground or surface water contamination.

2.8.2 SOIL

RAOs for Public Health Protection

- Prevent ingestion/direct contact with contaminated soil.
- Prevent inhalation of, or exposure to, contaminants volatilizing from contaminated soil.

RAOs for Environmental Protection

- Prevent migration of contaminants that would result in groundwater or surface water contamination.

2.8.5 SOIL VAPOR

- Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into any future enclosed buildings at the Site while noting that the planned building structure on this Site will be an open-air garage.

3.0 DESCRIPTION OF REMEDIAL ACTION PLAN

3.1 Evaluation of Remedial Alternatives

The objective of the remedy, is to achieve a cleanup that is the most protective of human health and the environment and that does not rely on long term Engineering or Institutional Controls (ECs or ICs), which means achieving unconditional Track 1 at the time the COC is issued. Achievement of Track 1 equivalent remedy for 34 East Post Road (Former Marianina Gas Station) and migration from this parcel onto the WPHA Excess Property ("hereinafter Spill Area") is already required pursuant to the Consent Order, which requires achievement of the CP-51 soil objectives in relation to the petroleum contamination. However, this objective will most likely be accomplished under a Track 1 remedy for the entire Site by removing all soils that exceed the UUSCOs and dewatering and treating the groundwater. Nevertheless, to the extent this most stringent remedy cannot be achieved, the applicants shall develop and evaluate at least one remedial alternative. This remedial alternative includes a Track 2 remedy as discussed below:

Track 1

The goal of this remedy is to achieve unconditional Track 1 at the time the COC is issued.

A remedy pursuant to unconditional Track 1 must achieve compliance with the UUSCOs for soils set forth in 6 NYCRR § 375-6.8(a) and must achieve the bulk reduction of contamination in groundwater to achieve the AWQS or asymptotic levels. Here, since the bulk of contamination in the groundwater is petroleum related contamination, which can be readily removed via dewatering and treatment, there is a high likelihood that the Site can achieve the new definition of unconditional Track 1 pursuant to the revised 12/31/2025 Part 375 regulations. Achievement of Track 1 and CP-51 on the 34 East Post Road and off-Site area described in the 2022 Amended Consent Order will be documented based on end point samples every 900 square feet at the bottom of the excavation. Side wall samples will not be possible on the perimeter of the Site based on the anticipated support of excavation (SOE) that will be constructed at the Site. However, sidewall samples will be collected where adjacent remedial cells are excavated to different depths, where possible.

This alternative would involve the complete removal and/or remediation of the soil with exceedances of the UUSCOs, which were encountered as deep as 18.5 ft-bgs. A feasible remedial technology that may be used to implement this alternative involves the installation of support of excavation (SOE) deep enough to support the excavation extent required to achieve

the Track 1 SCOs in endpoint samples after removal of the contaminated soil and transportation to an approved off-site facility for disposal. The estimated excavation volume is approximately 60,000 cubic yards (CY) of contaminated material. In addition, dewatering will be implemented to remove contaminated groundwater, and any residual groundwater will be treated with petroleum hydrocarbon amendments (i.e., PetroFix, or equivalent) mixed into the saturated zone at the bottom of remedial excavation. In-situ treatment of residual contaminated groundwater with injections would be used unless post-construction sampling concludes that the AWQSGVs or asymptotic levels are met by dewatering and petroleum hydrocarbon amendments. For the Spill Remediation Area described in the 2022 Amended Consent Order, the remediation must comply with any requirements in the January 2025 RAWP in addition to this RAWP.

The groundwater RI identified exceedances of the AWQSGVs for VOCs, SVOCs, metals, PCBs, and/or PFAS in each of the 18 temporary wells sampled across the Site. The VOC and SVOC exceedances are primarily consistent with petroleum contamination. It is expected that the groundwater will meet the AWQSGVs or reach asymptotic levels after the implementation of excavation, dewatering, and in-situ treatment with petroleum hydrocarbon amendments, which will result in the removal of contamination sources. Additional in-situ treatment with injections would be used if needed based on sampling results. Significant dewatering will take place during construction since two/thirds of the garage foundation will be installed below the water table. A round of groundwater sampling will be conducted after soil excavation, dewatering, and mixing with petroleum hydrocarbon amendments to assess the extent of residual groundwater contamination and determine if additional treatment with in-situ injections will be required to enhance removal of residual groundwater contamination.

With respect to soil vapor, since the proposed project is a mechanically ventilated open air parking garage and approximately 2/3 of the building foundation will be below the water table, a soil vapor intrusion issue is not anticipated. There will be no enclosed spaces in the below-grade portion of the parking garage other than an unoccupied, unheated small storage area.

Track 2

A Track 2 remedy requires the Applicant to implement a cleanup that achieves SCOs from tables in 6 NYCRR § 375-6.8(b), which is consistent with the intended Site use for the top 15 feet of soil (or bedrock if less than 15 feet). Groundwater will be similarly treated as under the Track 1

remedy, including extensive dewatering and subsequent in-situ treatment, but to the extent that either the AWQS or asymptotic levels are not achieved by the time the COC is supposed to be issued then the remedy will revert to a Track 2 remedy under the new part 375 regulations. Under a Track 2 remedy, the remedial program may include the use of long-term institutional or engineering controls to address contamination related to groundwater. The Site remediation pursuant to Track 2 would still involve excavation and disposal of the contaminated soils to at least 15 feet to meet the RRSCOs and PGWSCOs for a preferred Track 2 restricted residential remedy or Track 2 commercial remedy if Track 2 RRSCOs cannot be met.

It is anticipated that Track 1 UUSCOs will be achieved for soil Site-wide, and it is required to be essentially achieved in the Spill Boundary Area pursuant to the January 2025 RAWP based on achievement of the CP-51 standards; however, if this is not possible in all other areas of the Site, a Track 2 restricted residential use remedy to achieve the RRSCOs or a Track 2 Commercial Use remedy to achieve the CSCOs will be an alternative remedy for the Site soils.

Protection of Human Health and the Environment

Although both Track 1 and Track 2 for the non-Spill Areas would provide adequate protection of human health and the environment, particularly given the proposed open air garage use, but Track 1 would be more protective than Track 2 because it would remove all soil contamination Site-wide to meet the State's most stringent SCOs and should expedite the elimination of groundwater contamination sources which have plagued these properties as a result of commingled contaminant sources and plumes for years, and serve to eliminate any further offSite migration. Moreover, because an unconditional Track 1 remedy requires no long term ongoing institutional or engineering controls to manage contamination indefinitely into the future, the cleanup does not anticipate relying on human intervention or mechanical equipment to remain effective in protecting human health and the environment. A Track 2 remedy would also be protective of human health and the environment if the proper long-term engineering and institutional controls are put in place and managed in an SMP.

Compliance with Standards, Criteria, and Guidelines (SCGs)

Both Track 1 and Track 2 for the non-Spill Areas will achieve applicable cleanup standards; however, a Track 1 cleanup would achieve a more stringent set of standards than a Track 2 cleanup.

Short-Term Effectiveness and Impacts

Both Track 1 and Track 2 for the non-Spill Areas would achieve significant short-term effectiveness because both approaches would remove the contaminant mass in soil and groundwater from the Site; however, a Track 1 cleanup would achieve a greater short-term effect because it would achieve a more stringent set of standards than a Track 2 cleanup.

Excavation may result in the potential for migration of impacts from the open excavation (e.g. wind erosion, storm water intrusion, etc.), however, an air monitoring program and erosion and sediment controls will be implemented to minimize and control any potential dust and sediment migration.

Long-Term Effectiveness and Permanence

A Site-wide Track 1 remedy would remove all soil above UUSCOs and treat the groundwater such that asymptotic levels are achieved and thus would provide the most long-term effectiveness. A Track 2 cleanup in the non-Spill Areas would remove all soil above the RRSCOs or CUSCOs and PGWSCOs to a depth of at least 15 feet. Although some contaminants are left on Site with a Track 2 cleanup in the non-Spill Areas, the residual impacts are deep below ground and unlikely to have any further impact on human health or the environment. The groundwater remedy would be the same but further treatment and/or longer-term monitoring may be required.

Reduction of Toxicity, Mobility, or Volume of Contaminated Material

A Site-wide Track 1 remedy would remove all soil above UUSCOs, so it would have the greatest reduction in toxicity and mobility by removing the greatest volume of contaminated source material in soil and treat the groundwater until asymptotic levels are achieved. A Track 2 remedy in the non-Spill Areas would remove nearly as much contaminated material as Track 1, but would leave some contaminated material on site, resulting in a smaller reduction of toxicity and mobility.

Implementability

Tracks 1 and 2 are both implementable given the location and the planned use for the Site. While a Track 1 remedy would require a slightly deeper excavation in some locations, the contractor would have the equipment available to achieve this outcome. Sometimes utilities which cannot be relocated or issues such as subsidence of adjacent properties prevent achievement of Track 1, but these issues on this Site are anticipated to be able to be managed through installation of SOE

to prevent subsidence and off-Site impacts and utilities known to exist in former Brookfield Street are anticipated to be moved.

Cost Effectiveness

Removal of soil with exceedances of the UUSCOs to achieve a Track 1 remedy will be more costly than removal of soil with exceedances of the RRSCOs or CUSCOs and PGWSCOs to a depth of 15 feet to achieve a Track 2 remedy in the non-Spill Areas; however, this additional mass removal results in long-term savings by eliminating any on-Site soil source that may contribute to groundwater issues at the Site.

Community Acceptance

A Citizen Participation Plan will continue to be incorporated into all remedial alternatives, per NYSDEC Brownfield Program law and regulations. The planned redevelopment of the Site consists of multi-story parking structure for the adjacent White Plains Hospital and WPHA residents, which will help to alleviate traffic and parking difficulties in the neighborhood. The community should accept either a Site wide Track 1 or a Track 2 remedy in the non-Spill Areas; however, a Site-wide Track 1 remedy is likely preferable to the community since it will eliminate more of the contamination than a Track 1/ Track 2 combined remedy and, given the adjacent Hospital and affiliated use, is the preferred remedy if achievable.

Land use

Either Site-wide Track 1 or Track 2 cleanup in the non-Spill Areas would achieve remediation for the planned commercial parking garage use of the Site. While remediation and redevelopment of the Site will create short-term construction impacts, the creation of new parking for the White Plains Hospital and WPHA residents will provide a significant improvement to the community as it will provide easier access to the hospital and adjacent housing complex and reduce the traffic on local roads caused by hospital visitors searching for parking.

Zoning

The Site can be utilized for a proposed parking garage under either remedial alternative under current zoning approvals.

Applicable Comprehensive Community Master Plans or Land Use Plans

The project and implementation of either a Site-wide Track 1 or a partial Track 2 remedy would facilitate the proposed commercial parking garage development, which is consistent with the June 2024 One White Plains Comprehensive Plan.

Surrounding Property Uses

Any cleanup approach is not expected to significantly impact land use of the surrounding properties as the truck traffic and access will be on public roads in a largely commercial area. The parking spaces on the WPHA Excess Property are being impacted but the agreements between the WPHA and the BCP applicants will accommodate these impacts by providing these residents with alternative parking spaces during the construction project, which will provide them with better parking inside of a garage upon completion. Therefore, there will be short-term impacts from the remediation and construction project, but these will result in long-term benefits of converting contaminated property into parking that better facilitates the commercial and residential needs of the surrounding properties and will remediate the plumes headed north.

Citizen Participation

Citizen Participation during implementation of a remedial program will proceed in accordance with the Citizen Participation Plan and as noted above will have minimal community impact. Any short-term impacts will be addressed by the CAMP and HASP.

Environmental Justice Concerns

There are no known environmental justice concerns associated with this project.

Land Use Designations

There are no current land use designations that impact the Site. A Track 1 remedy will not restrict any current or future land use designations. A partial Track 2 remedy would limit the future land use of the Site to a Restricted Residential or Commercial use only.

Population Growth Patterns

Any of the proposed remedies will not impact reasonably anticipated population growth patterns in the area other than to better accommodate growth by providing for new parking to facilitate the

expansion of the White Plains Hospital, which has been expanding due to local population growth, and to provide better parking for the WPHA residents.

Accessibility to Existing Infrastructure

Access to existing infrastructure is present in the surrounding area. Some on-site utility infrastructure will likely have to be demolished and removed as part of the remediation. However, new infrastructure will be installed subsequent to the remediation as part of the redevelopment.

Proximity to Natural Resources

The closest surface water body is the Bronx River, located approximately 2,000 feet to the northwest.

Geography and Geology of the Site

See Section 2.4 above.

Current Institutional Controls

There are no current institutional controls associated with the Site that will impact remediation since the utilities in Brookfield Street will be removed and relocated.

3.3 Summary of Selected Preferred Remedial Action

1. Demolition of all remaining on-Site structures and removal of hydraulic lifts at Former 60 East Post Road (Former Firestone Auto Repair Site).
2. Underground storage tank removal.
3. Continued installation of SOE to perform the preferred Track 1 remedial action and which will be designed to prevent off-Site migration emanating from the Site and onto the Site from any other potential sources, including the Brookfield Commons Phase 3 Site (BCP Site No. C360246).
4. Excavation of soil/fill exceeding Track 1 UUSCOs.
5. Screening for indications of contamination (by visual means, odor, and monitoring with PID) of all excavated soil during any intrusive Site work.
6. Collection and analysis of end-point samples to evaluate the performance of the remedy with respect to attainment of Track 1 UUSCOs.

7. Appropriate off-Site disposal of all material removed from the Site in accordance with all Federal, State and local rules and regulations for handling, transport, and disposal.

8. To the extent required, import of materials to be used for backfill in compliance with: (1) chemical limits and other specifications included in NYCRR Sections 375-6.7(d) and 375-6.8 (b) and DER-10, (2) all Federal, State and local rules and regulations for handling and transport of material.

9. Dewatering and treatment of contaminated groundwater.

10. In-Situ treatment of residual contaminated groundwater with petroleum hydrocarbon amendments (i.e., PetroFix, or equivalent) mixed into the saturated zone at the bottom of remedial excavation.

11. Replacement of monitoring well network and sampling of groundwater to determine the residual contaminant levels following completion of dewatering operations and placement of petroleum hydrocarbon amendments.

12. In-situ treatment of residual contaminated groundwater with injections unless post-construction sampling concludes that the AWQSGVs or asymptotic levels are met by dewatering and petroleum hydrocarbon amendments.

13. Installation of waterproofing and a vapor barrier under the proposed garage's foundation as a green remediation measure as part of the construction project.

14. Site security and traffic control/management.

15. Implementation of erosion and sediment control measures.

16. Recording of an Environmental Easement only to the extent an unconditional Track 1 remedy cannot be met.

17. To the extent required only if unconditional Track 1 is not achieved, publication of a Site Management Plan for long term management of residual groundwater contamination as required by the Environmental Easement, including plans for: (1) Institutional and Engineering Controls, (2) monitoring, (3) operation and maintenance and (4) reporting;

18. All responsibilities associated with the Remedial Action, including permitting requirements and pretreatment requirements, will be addressed in accordance with all applicable Federal, State and local rules and regulations.

Remedial activities will be performed at the Site in accordance with this NYSDEC-approved RAWP, the previously approved January 2025 RAWP for the Spill Area, and the NYSDEC-issued Decision Document. All deviations from the RAWP and/or Decision Document will be promptly reported to NYSDEC for approval and fully explained in the FER.

4.0 REMEDIAL ACTION PROGRAM

4.1 Governing Documents

4.1.2 GREEN AND SUSTAINABLE REMEDIATION AND CLIMATE RESILIENCY

During the course of the remedial action field activities, SESI will consider NYSDEC DER-31 “Green Remediation” implementation objectives. DER-31: Green Remediation provides the framework for DER's approach to remediating sites in the context of the larger environment, a concept known as “Green Remediation”. Green Remediation (or greener cleanups) can be defined as “the practice of considering all environmental effects of remedy implementation and incorporating options to minimize the environmental footprint of cleanup actions.” It is intended to be a holistic approach which improves the overall sustainability of remedial cleanups by promoting the use of more sustainable practices and technologies. Such practices and technologies are less disruptive to the environment, generate less waste, increase reuse and recycling, and emit fewer pollutants, including greenhouse gases (GHGs), to the atmosphere. The approach also recognizes the potential for positive economic and social benefits of Site reuse and supports coordination of Site reuse and remediation to affect the most beneficial and sustainable reuse of the site. Please note that final end use is dictated by local zoning codes. DEC’s role is to ensure that the remedy is protective for the intended end use. Green Remediation concepts and techniques considered during the remedial activities will include:

- Deploy machinery that is suitably sized to increase efficiencies considerably.
- Use machine models capable of performing assorted tasks, whenever feasible, to avoid field deployment of multiple types of machines (i.e.. a single excavator can be equipped with a bucket for digging, a breaker for demolition).
- Perform routine, on-time maintenance such as oil changes to assure fuel efficiency.
- Prohibiting idling vehicles and equipment such as excavation equipment during the remedial action when possible to reduce emission of CO2, N2O, CH4, and other greenhouse gases contributing to climate change;
- Integrating the remedy with the end use where possible and encouraging green and sustainable re-development (i.e. Track 1 soil remedy integrated with planned building cellar);
- Considering the environmental impacts of treatment technologies and remedy; stewardship over the long term when choosing a site remedy (i.e.. Track 1 remedy does not require long-term monitoring);

- Reducing waste, increasing recycling and increasing reuse of materials such as concrete and asphalt that would otherwise be considered a waste;
- Reclaim and stockpile uncontaminated soil for use as infill or other purposes
- Implementing the use of particulate detectors during all ground intrusive activities to monitor and minimize dust export of contaminants;
- Implementing the use of VOC detectors to monitor and minimize VOC exposures from vehicle and equipment during the remedial action;
- Conducting sampling events planned simultaneously to maximize level of efforts while traveling to/from the Site (economy of scale implementing multiple sampling events).
- Conserving and efficiently managing resources and materials such as minimizing water use for decontaminating equipment and dust control.
- Use of mass transit will be encouraged for workers on site.
- Use of solar power for site equipment will be utilized if possible based on operations.

4.1.2 SITE SPECIFIC HEALTH & SAFETY PLAN (HASP)

All remedial work performed under this plan will be in full compliance with governmental requirements, including Site and worker safety requirements mandated by Federal OSHA.

The Applicants and associated parties preparing the remedial documents submitted to the State and those performing the construction work, are completely responsible for the preparation of an appropriate Health and Safety Plan and for the appropriate performance of work according to that plan and applicable laws.

The Health and Safety Plan (HASP) and requirements defined in this Remedial Action Work Plan pertain to all remedial and invasive work performed at the Site until the issuance of a Certificate of Completion. The HASP is provided in **Appendix E.**

4.1.3 QUALITY ASSURANCE PROJECT PLAN (QAPP)

A copy of the QAPP is included as **Appendix F**. All field sampling procedures and analytical methods will be implemented in accordance with this QAPP.

4.1.5 SOIL/MATERIALS MANAGEMENT PLAN (SOMP)

The SoMP is included as Section 5.4 and includes detailed plans for managing all soils/materials that are disturbed at the Site, including excavation, handling, storage, transport, and disposal. It

also includes all of the controls that will be applied to these efforts to assure effective, nuisance-free performance in compliance with all applicable Federal, State, and local laws and regulations.

4.1.6 STORM-WATER POLLUTION PREVENTION PLAN (SWPPP)

A soil erosion and sediment control plan will be prepared prior to the start of remedial work. The erosion and sediment controls will be in conformance with requirements presented in the New York State Standards and Specifications for Erosion and Sediment Control.

4.1.7 COMMUNITY AIR MONITORING PLAN (CAMP)

A Community Air Monitoring Plan for the implementation of all RAWP field activities at the Site will be implemented in accordance with the requirements of DER-10 Appendix 1A. The objective of the CAMP is to provide a measure of protection for the downwind community from potential airborne contaminant releases that may arise during all ground intrusive activities, and potentially contaminated soil and material handling and staging. In addition, the CAMP is intended to ensure that dust and contaminants are not leaving the work zone. Details of the air monitoring program including perimeter air monitoring objectives, proposed CAMP stations, methods, and actions levels are detailed in the CAMP that is provided in **Appendix G**.

4.1.8 CONTRACTORS SITE OPERATIONS PLAN (SOP)

The Remedial Engineer has reviewed all plans and submittals for this remedial project (including those listed above and contractor and sub-contractor document submittals) and confirms that they comply with this RAWP. The Remedial Engineer is responsible to ensure that all later document submittals for this remedial project, including contractor and sub-contractor document submittals, comply with this RAWP. All remedial documents will be submitted to NYSDEC and NYSDOH in a timely manner and prior to the start of work.

4.1.9 CITIZEN PARTICIPATION PLAN

A certification of mailing will be sent by the Applicants to the NYSDEC project manager following the distribution of all Fact Sheets and notices that includes: (1) certification that the Fact Sheets were mailed, (2) the date they were mailed; (3) a copy of the Fact Sheet, (4) a list of recipients (contact list); and (5) a statement that the repository was inspected and that it contained all of applicable project documents.

No changes will be made to approved Fact Sheets authorized for release by NYSDEC without written consent of the NYSDEC. No other information, such as brochures and flyers, will be included with the Fact Sheet mailing.

The approved Citizen Participation Plan for this project is attached in **Appendix H**.

Document repositories will be established in accordance with the future CPP and contain all applicable project documents:

In addition, an electronic repository will be established and can be accessed via DECInfo Locator.

4.2 General Remedial Construction Information

4.2.1 Project Organization

Table 4.1 Key Project Personnel

Role	Name	Telephone No.
Applicant Contact	Louis R. Cappelli	914-769-6500
Project Principal	Fuad Dahan, P.E., PhD	973-808-9050 x249
Project Manager	Andrew Schweitzer, PE	973-808-9050 x295
Principal Engineer	Andrew Schweitzer, PE	973-808-9050 x295
Field Team Leader	TBD	
Quality Assurance Officer	TBD	
Field Personnel	TBD	
Analytical Laboratory	TBD	
Data Validator	TBD	
NYSDEC Project Manager	TBD	
NYSDOH Project Manager	TBD	

4.2.2 REMEDIAL ENGINEER

The Remedial Engineer for this project will be Andrew Schweitzer. The Remedial Engineer is a registered professional engineer licensed by the State of New York. The Remedial Engineer will have primary direct responsibility for implementation of the remedial program for the East Post Road Garage Site (NYSDEC BCA Index No. [Pending Application] Site No. [Pending Approval]).

The Remedial Engineer will certify in the Final Engineering Report that the remedial activities were observed by qualified environmental professionals under their supervision and that the remediation requirements set forth in the Remedial Action Work Plan and any other relevant provisions of ECL 27-1419 have been achieved in full conformance with that Plan. Other Remedial Engineer certification requirements are listed later in this RAWP.

The Remedial Engineer will coordinate the work of other contractors and subcontractors involved in all aspects of remedial construction, including soil excavation, stockpiling, characterization, removal and disposal, air monitoring, emergency spill response services, import of back fill material, and management of waste transport and disposal. The Remedial Engineer will be responsible for all appropriate communication with NYSDEC and NYSDOH.

The Remedial Engineer will review all pre-remedial plans submitted by contractors for compliance with this RAWP and will certify compliance in the Final Engineering Report.

The Remedial Engineer will provide the certifications listed in Section 10.1 in the FER.

4.2.3 REMEDIAL ACTION CONSTRUCTION SCHEDULE

Table 4.2 Remedial Action Construction Schedule

Task	Date
Submit Draft RAWP with BCP Application	February 2026
NYSDEC Review of RAWP	March 2026
Submit Change-of-Use for demolition, waste characterization, and SOE installation	March 2026
Start 45 Day Comment period	April 2026
End 45 Comment Period	May 2026
RAWP Approval and Decision Document	June 2026
Submit EE	June 2026
Start Remedial Implementation	June 2026
Submit SMP	August 2026
Submit FER	October 2026
Complete Remedial Implementation	November 2026
COC	December 2026

4.2.4 WORK HOURS

The hours for operation of remedial construction will conform to the approved City of White Plains Construction Management Plan requirements or according to specific variances issued by the City of White Plains. NYSDEC will be notified by the Applicant of any variances issued by City of White Plains. NYSDEC reserves the right to deny alternate remedial construction hours.

4.2.5 SITE SECURITY

The Site will be secured with fences and locked gates when remediation is about to commence. The fence will be eight-foot-high fabric-lined chain-link construction. The gate will be locked during non-construction hours.

4.2.6 TRAFFIC CONTROL

Traffic control shall be the responsibility of the Applicant and its Contractors. Traffic control must comply with all local, state, and federal regulations including but not limited to the approved City of White Plains Construction Management Plan requirements, New York State Department of Transportation (NYSDOT), and the Manual on Uniform Traffic Control Devices.

4.2.7 CONTINGENCY PLAN

If underground tanks or other previously unidentified contaminant sources are found during on-Site remedial excavation or development related construction, sampling and removal will be performed in accordance with DER-10.

4.2.8 WORKER TRAINING AND MONITORING

The required worker training and monitoring are presented in the HASP located in **Appendix E**.

4.2.9 AGENCY APPROVALS

The Applicants have addressed all SEQRA requirements for this Site. All permits or government approvals required for remedial construction have been, or will be, obtained prior to the start of remedial construction.

The planned end use for the Site is in conformance with the current zoning for the property as determined by the City of White Plains. A Certificate of Completion will not be issued for the project unless conformance with zoning designation is demonstrated.

A complete list of all federal, state and local governmental permits, certificates or other approvals or authorizations required to perform the remedial and development work is provided below in **Table 4.3**. This list includes a citation of the law, statute or code to be complied with, the originating agency, and a contact name and phone number in that agency. This list will be updated in the Final Engineering Report.

TABLE 4.3: AGENCY APPROVALS

Permit	Agency
Building Permit	White Plains Municipal
Demolition Permit	White Plains Municipal
Dewatering Permit	Westchester County
Stormwater Permit	NYSDEC / White Plains Municipal

There is no planned remedial or construction work in a regulated wetlands and adjacent areas, therefore no specific approvals are required by the NYSDEC Division of Natural Resources to ensure that it meets the requirements for substantive compliance with those regulations prior to the start of construction.

4.2.11 PRE-CONSTRUCTION MEETING WITH NYSDEC

A pre-construction meeting will be held with NYSDEC at least one week prior to the mobilization of major remedial construction activities.

4.2.12 EMERGENCY CONTACT INFORMATION

An emergency contact sheet with names and phone numbers is included in **Table 4.4**. That document will define the specific project contacts for use by NYSDEC and NYSDOH in the case of a day or night emergency.

TABLE 4.4: Emergency and Contact Numbers

Medical, Fire, and Police:	911
One Call Center:	(800) 272-4480 (3-day notice required for utility markout)
Poison Control Center:	(800) 222-1222
Pollution Toxic Chemical Oil Spills:	(800) 424-8802
NYSDEC Spills Hotline	(800) 457-7362
Fuad Dahan – Remedial Engineer (SESI Consulting Engineers)	(973) 808-9050
Director of Construction - TBD	TBD

4.2.13 REMEDIAL ACTION COSTS

A total of $1,425,000 has already been spent in the Spill Area to facilitate the site preparation for remediation of the Spill Area prior to this Site entering the BCP. The total estimated cost for the remainder of the Remedial Action is TBD. An itemized and detailed summary of costs for all remedial activity will be submitted as an Appendix to the Final Engineering Report.

4.3 Site Preparation

As noted above, some site preparation work has already been accomplished. A Change of use Notice is also being submitted with this application to perform the remaining SOE work and the demolition work as soon as the BCP Site is approved for the BCP. This will enable the remediation work to commence in the summer of 2026 once this RAWP is approved.

4.3.1 Mobilization

Mobilization tasks will include:

- Construction of temporary facilities and utilities;
- Set-up of construction equipment and facilities;
- Construction of fencing and barriers;
- Construction of erosion control measures; and
- Construction of decontamination and materials staging areas.

4.3.2 Monitoring Well / Vapor Probe Decommissioning

Existing groundwater monitoring wells will be properly decommissioned in accordance with NYSDEC Commissioners Policy CP-43. The only exception to this is if the full length of the well is to be excavated during remediation.

4.3.3 Erosion and Sedimentation Controls

Erosion and sediment control measures are outlined in Section 6.4.10.

4.3.4 Stabilized Construction Entrance(S)

A tracking pad will be required for any vehicles going off-site that have come in contact with on-site soils. The decontamination area construction and operational requirements are provided in the HASP. All vehicle tires must be washed before exiting the Site.

4.3.5 Utility Marker and Easements Layout

The Applicants and its contractors are solely responsible for the identification of utilities that might be affected by work under the RAWP and implementation of all required, appropriate, or necessary health and safety measures during performance of work under this RAWP. The Applicants and its contractors are solely responsible for safe execution of all invasive and other work performed under this RAWP. The Applicants and its contractors must obtain any local, State or Federal permits or approvals pertinent to such work that may be required to perform work under this RAWP. Approval of this RAWP by NYSDEC does not constitute satisfaction of these requirements.

The presence of utilities and easements on the Site has been investigated by the Remedial Engineer. It has been determined that no risk or impediment to the planned work under this Remedial Action Work Plan is posed by utilities or easements on the Site.

4.3.6 Sheeting and Shoring

Appropriate management of structural stability of on-Site or off-Site structures during on-Site activities include excavation is the sole responsibility of the Applicants and its contractors. The Applicants and its contractors are solely responsible for safe execution of all invasive and other work performed under this RAWP. The Applicants and its contractors must obtain any local, State or Federal permits or approvals that may be required to perform work under this RAWP. Further,

the Applicants and its contractors are solely responsible for the implementation of all required, appropriate, or necessary health and safety measures during performance of work under the approved RAWP.

4.3.7 Equipment and Material Staging

Equipment and material staging areas are expected to be relocated throughout the Site during remedial construction.

4.3.8 Decontamination Area

Decontamination activities will include the removal of contaminated soil, debris and other miscellaneous materials from construction equipment and tools utilizing physical/mechanical agitation (brushing/scraping with hand tools) of soil may be utilized to minimize wastewater generation. When necessary the removal of contaminated soil, debris and other miscellaneous materials from construction equipment and tools will be accomplished using clean water supplied from the Site.

4.3.9 Site Fencing

A construction safety fence will be installed around the entire perimeter of the Site. Access through gates will be provided at various points as required by the Applicant and its contractors. These gates will be locked during non-construction hours.

4.3.10 Demobilization

- Restoration of areas that may have been disturbed to accommodate support areas (e.g., staging areas, decontamination areas, storage areas, temporary water management area[s], and access area);
- Removal of temporary access areas (whether on-Site or off-Site) and restoration of disturbed access areas to pre-remediation conditions;
- Removal of sediment and erosion control measures and disposal of materials in accordance with acceptable rules and regulations;
- Equipment decontamination; and
- General refuse disposal.

4.4 Reporting

All daily and monthly Reports will be included in the Final Engineering Report.

4.4.1 DAILY REPORTS

Daily reports will be submitted to NYSDEC and NYSDOH Project Managers by noon of each day following the reporting period and will include:

- An update of progress made during the reporting day;
- Locations of work and quantities of material imported and exported from the Site;
- References to alpha-numeric map for Site activities;
- A summary of any and all complaints with relevant details (names, phone numbers);
- A summary of CAMP finding, including excursions;
- Photographs of site activities;
- An explanation of notable Site conditions.

Daily reports are not intended to be the mode of communication for notification to the NYSDEC of emergencies (accident, spill), requests for changes to the RAWP or other sensitive or time critical information. However, such conditions must also be included in the daily reports. Emergency conditions and changes to the RAWP will be addressed directly to NYSDEC Project Manager via personal communication.

Daily Reports will include a description of daily activities keyed to an alpha-numeric map for the Site that identifies work areas. These reports will include a summary of CAMP results, odor and dust excursions and corrective actions, and all complaints received from the public.

The NYSDEC assigned project number will appear on all reports.

4.4.2 MONTHLY REPORTS

Monthly reports will be submitted to NYSDEC and NYSDOH Project Managers by the 10th day of each month following the reporting period and will include:

- Activities relative to the Site during the previous reporting period and those anticipated for the next reporting period, including a quantitative presentation of work performed;
- Description of approved activity modifications, including changes of work scope and/or schedule;
- Sampling results received following internal data review and validation, as applicable; and,
- An update of the remedial schedule including the percentage of project completion, unresolved delays encountered or anticipated that may affect the future schedule, and efforts made to mitigate such delays.
- Tracking of GSR metrics determined during the design process should be included in monthly reports.

4.4.3 OTHER REPORTING

Photographs will be taken of all remedial activities and submitted to NYSDEC in digital (JPEG) format. Photos will illustrate all remedial program elements and will be of acceptable quality. Representative photos of the Site prior to any Remedial Actions will be provided. Representative photos will be provided of each contaminant source, source area and Site structures before, during and after remediation. Photos will be included in the daily reports as needed, and a comprehensive collection of photos will be included in the FER.

Progress with respect to green and sustainable remediation metrics will be tracked during implementation of the remedial action and reported in the FER, including a comparison to the goals established during the remedial program. Regular updates to the metrics used (SEFA, SiteWise™ or otherwise approved method) should be included.

The Climate Screening process and results will be documented in the form of a completed checklist and brief letter report. If the Climate Screening results indicate that a CVA is necessary,

a complete CVA Report will be developed. The CVA Report will be included as an Appendix or Attachment in relevant documents and/or submitted as a standalone report.

Job-site record keeping for all remedial work will be appropriately documented. These records will be maintained on-Site at all times during the project and be available for inspection by NYSDEC and NYSDOH staff.

4.4.4 Complaint Management Plan

A public information board will be constructed at the perimeter of the Site. This information board will contain the phone number of the Applicant where complaints may be directed. General information notices to the public will also be posted on this board for their benefit.

4.4.5 DEVIATIONS FROM THE REMEDIAL ACTION WORK PLAN

If there are any deviations from the RAWP, the following steps will be taken:

- Reasons for deviating from the approved RAWP will be identified and communicated directly to the NYSDEC Project Manager;
- All deviations will be communicated verbally and in writing (by letter or email) to the NYSDEC Project Manager;
- The deviations will be implemented based on verbal or written approval of the NYSDEC Project Manager. All verbal approvals will be followed up in writing.
- The effect of the deviations on the overall remedy will be described/addressed in the FER.

5.0 REMEDIAL ACTION: MATERIAL REMOVAL FROM SITE

Removal of all contaminated soil under the Remedial Action for the Site will be implemented in accordance with the Site-specific QAPP (**Appendix F**). Soil exceeding the Track 1 UUSCOs extends to a depth of 18.5 ft-bgs based on the RI and prior investigations performed. A plan depicting the locations where the remedial excavation activities will be carried out to planned depths of 20.5 ft-bgs is included as **Figure 5.1**. The depth was determined based on the deepest exceedance of the Track 1 UUSCO documented during the RI plus two feet and the need to achieve the Track 1 remedy. The estimated excavation volume is approximately 60,000 cubic yards (cy) for the planned Track 1 remedial excavation or approximately 56,000 cubic yards (cy) for the Track 2 alternative if Track 1 cannot be achieved. RIR **Table 4.1A** summarizes the depth

at which contaminated soil exceeding the UUSCOs was encountered and the approximate elevation at each.

5.1 Soil Cleanup Objectives

The Soil Cleanup Objectives for this Site are the Track 1 UUSCOs. Soil and materials management will be conducted in accordance with the Soil/Materials Management Plan as described below. The RIR summarizes all soil samples that exceed the SCOs proposed for this Remedial Action. A spider map that shows all soil samples that exceed the SCOs proposed for this Remedial Action is shown in the RIR Figures. UST closures will conform to tank closure criteria defined in DER-10.

5.2 Remedial Performance Evaluation (Post Excavation End-Point Sampling)

5.2.1 END-POINT SAMPLING FREQUENCY

For all excavations, post-excavation soil samples will be collected in accordance with Section 5.4 of DER-10 for laboratory analysis of TCL + 30/TAL compounds including VOCs by EPA Method 8260C, SVOCs by EPA Method 8270D, pesticides by EPA Method 8081B, PCBs by EPA Method 8082A, TAL metals by EPA Methods 6010C, 7471B, and 9012, and for PFAS in accordance with the latest EPA Method 1633A.

All Site soils will be removed down to depths up 20.5 ft-bgs within the final SOE boundary as required to achieve the Track 1 remediation. Endpoint verification sampling will be implemented every 900 square feet (SF) at this depth, verified, and documented by field personnel. The proposed end-point sample locations and sample depths are depicted on **Figure 5.1**. Sidewall samples will be collected within the Site where adjacent grids are excavated to different depths (greater than 2 feet variance between grids). Sidewall samples will not be collected along the exterior property boundary per DER-10 requirements because of the SOE that will be placed along the Site boundaries. Documentation will be presented in the FER. To the extent that any of the end-point sample results do not achieve Track 1 UUSCOs, excavation of additional soil will be performed every two feet until the Track 1 UUSCOs are achieved to the extent feasible or until bedrock. Alternatively, the team may decide to revert to a Track 2 remedy to avoid over excavation.

5.2.2 GROUNDWATER SAMPLING

The monitoring well network will be re-installed and groundwater sampling will be conducted after completion of dewatering activities to determine the residual contaminant levels following completion of dewatering operations and in-situ treatment of residual contaminated groundwater to verify that the remedy is effective. The goal of the groundwater remedy is to achieve the AWQSGVs or to reach asymptotic levels. The proposed post-remediation groundwater sample locations are depicted on **Figure 5.2**. A typical well construction diagram is provided in **Appendix I.**

5.2.3 SOIL VAPOR

A soil vapor intrusion evaluation will not be conducted because there are no enclosed occupied spaces with heat in the below-grade level of the parking garage and the remainder of the garage is open air.

5.2.2 METHODOLOGY

Soil samples will be collected in accordance with the QAPP using disposable gloves/trowels or dedicated, decontaminated stainless steel spoons. Groundwater samples will be collected in accordance with the QAPP using the low-flow purging and sampling method and associated decontamination and quality control procedures. Soil vapor samples will be collected in accordance with the NYSDOH Guidance for Evaluating Sub-Slab vapor Intrusion.

5.2.3 REPORTING OF RESULTS

The samples will be submitted to a NYSDOH Environmental Laboratory Accreditation Program (ELAP) certified laboratory. The results will be reported in accordance with NYSDEC requirements for Category B data deliverables (as outlined in DER-10). In addition, all data collected during the remedial action will be submitted in the NYSDEC approved Electronic Data Deliverable format using the NYSDEC's Environmental Information Management System database software application EQuIS^{TM}.

5.2.4 QA/QC

Collection of quality assurance/quality control (QA/QC) samples to evaluate potential cross-contamination from sampling equipment and during shipment of samples and repeatability of laboratory analytical practices will be in accordance with the QAPP included as **Appendix F**.

Field blanks, trip blanks and duplicate samples associated with daily sampling activities will be collected as a part of the QA/QC practices.

5.2.5 DUSR AND EDDS

To ensure that the field sampling and laboratory analytical practices are acceptable, the data associated with all the samples will be validated by a third party (in accordance with requirements of DER-10). The validation approach and results will be presented in a DUSR to be included in the FER.

5.2.6 REPORTING OF END-POINT DATA IN FER

The FER will include a table of final soil and groundwater sample data with highlights or a summary of exceedances of the Track 1 UUSCOs and AWQSGVs.

Chemical labs used for all end-point sample results and contingency sampling will be NYSDOH ELAP certified.

End point sampling, including bottom and side-wall sampling, will be performed in accordance with DER-10 sample frequency requirements. Side-wall samples will be collected a minimum of every 30 linear feet. Bottom samples will be collected at a rate of one for every 900 square feet from the base of the remedial excavation. The FER will provide a tabular and map summary of all end-point sample results and exceedances of SCOs.

5.3 Estimated Material Removal Quantities

Source removal excavation activities will be implemented during the course of the remediation activities throughout the footprint of the Site. Based on the RI, the depth of contaminated fill/ soil extends to 20.5 ft-bgs. The entire Site within the SOE will be excavated to remove all soil exceedances in order to achieve a Track 1 remedy.

The estimated quantity of soil/fill to be removed from the Site is 60,000 cubic yards.

5.4 Soil/Materials Management Plan

Material will be required to be excavated during remediation activities. Any required fill will consist of imported clean fill that meets the requirements per 6 NYCRR § 375-6.8(d) and the requirements for emerging contaminants sampling per the April 2023 DEC Guidance Document.

5.4.1 SOIL SCREENING METHODS

Visual, olfactory and PID soil screening and assessment will be performed by a qualified environmental professional or experienced field geologist under the direction of the Remedial Engineer during all remedial and development excavations into known or potentially contaminated material. Soil screening will be performed regardless of when the invasive work is done and will include all excavation and invasive work performed during the remedy and during development phase, such as excavations for foundations and utility work, prior to issuance of the COC.

All primary contaminant sources (including but not limited to tanks and hotspots) identified during Site Characterization, Remedial Investigation, and Remedial Action will be surveyed by a surveyor licensed to practice in the State of New York. This information will be provided on maps in the FER.

Screening will be performed by qualified environmental professionals. Resumes will be provided for all personnel responsible for field screening (e.g., those representing the Remedial Engineer) of invasive work for unknown contaminant sources during remediation and development work.

5.4.2 STOCKPILE METHODS

Stockpiles will be inspected at a minimum once each week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the Site and available for inspection by NYSDEC. At a minimum, a storm event should be considered a rainfall of three inches or greater in 12 hours. Judgement should be used to evaluate water infiltration, nearby waterbodies where runoff is likely, and engineering controls that may be affected.

Stockpiles will be kept covered at all times with appropriately anchored tarps. Stockpiles will be routinely inspected and damaged tarp covers will be promptly replaced.

Soil stockpiles will be continuously encircled with silt fences. Hay bales will be used as needed near catch basins, surface waters and other discharge points.

Water will be available on-site at suitable supply and pressure for use in dust control.

5.4.3 MATERIALS EXCAVATION AND LOAD OUT

The Remedial Engineer or a qualified environmental professional under his/her supervision will oversee all invasive work and the excavation and load-out of all excavated material.

The Applicant and its contractors are solely responsible for safe execution of all invasive and other work performed under this Plan.

The presence of utilities and easements on the Site has been investigated by the Remedial Engineer. It has been determined that no risk or impediment to the planned work under this Remedial Action Work Plan is posed by utilities or easements on the Site.

Loaded vehicles leaving the Site will be appropriately lined, tarped, securely covered, manifested, and placarded in accordance with appropriate Federal, State, local, and NYSDOT requirements (and all other applicable transportation requirements).

Vehicles leaving the Site will not be overloaded. The Remedial Engineer's representative will make reasonable efforts to ensure that vehicles are not loaded beyond their NYSDOT weight rating and that all material is secured beneath the truck bed cover.

A truck wash will be operated on-Site. The Remedial Engineer will be responsible for ensuring that all outbound trucks will be washed at the truck wash before leaving the Site until the remedial construction is complete.

Locations where vehicles enter or exit the Site shall be inspected daily for evidence of off-Site sediment tracking.

The Remedial Engineer will be responsible for ensuring that all egress points for truck and equipment transport from the Site will be clean of dirt and other materials derived from the Site during Site remediation and development. Cleaning of the adjacent streets will be performed as needed to maintain a clean condition with respect to Site -derived materials.

The Applicants and associated parties preparing the remedial documents submitted to the State, and parties performing this work, are completely responsible for the safe performance of all invasive work, the structural integrity of excavations, and for structures that may be affected by excavations (such as building foundations and bridge footings).

The Remedial Engineer will ensure that Site development activities will not interfere with, or otherwise impair or compromise, remedial activities proposed in this Remedial Action Work Plan.

Each hotspot and structure to be remediated (USTs, vaults and associated piping, transformers, etc.) will be removed and end-point remedial performance sampling completed before excavations related to Site development commence proximal to the hotspot or structure.

Development-related grading cuts and fills will not be performed without NYSDEC approval and will not interfere with, or otherwise impair or compromise, the performance of remediation required by this plan.

Mechanical processing of historical fill and contaminated soil on-Site is prohibited.

All primary contaminant sources (including but not limited to tanks and hotspots) identified during Site Characterization, Remedial Investigation, and Remedial Action will be surveyed by a surveyor licensed to practice in the State of New York. The survey information will be shown on maps to be reported in the FER.

5.4.4 MATERIALS TRANSPORT OFF-SITE

All transport of materials will be performed by licensed haulers in accordance with appropriate local, State, and Federal regulations, including 6 NYCRR Part 364. Haulers will be appropriately licensed and trucks properly placarded.

Truck transport routes will be provided to NYSDEC prior to the start of construction. All trucks loaded with Site materials will exit the vicinity of the Site using only these approved truck routes.

Proposed in-bound and out-bound truck routes will take into account: (a) limiting transport through residential areas and past sensitive sites; (b) use of city mapped truck routes; (c) prohibiting off-Site queuing of trucks entering the facility; (d) limiting total distance to major highways; (e) promoting safety in access to highways; and (f) overall safety in transport; [(g) community input where necessary.

Trucks will be prohibited from stopping and idling in the neighborhood outside the project Site.

Egress points for truck and equipment transport from the Site will be kept clean of dirt and other materials during Site remediation and development.

Queuing of trucks will be performed on-Site in order to minimize off-Site disturbance. Off-Site queuing will be prohibited.

Material transported by trucks exiting the Site will be secured with tight-fitting covers. Loose-fitting canvas or mesh truck covers will be prohibited. If loads contain wet material capable of producing free liquid, truck liners will be used.

All trucks will be washed prior to leaving the Site. Truck wash waters will be collected and disposed of off-Site in an appropriate manner.

5.4.5 MATERIALS DISPOSAL OFF-SITE

The disposal locations will be provided to NYSEC prior to the start of remedial work. Disposal location established at a later date will be reported to the NYSDEC Project Manager.

The total quantity of material expected to be disposed off-Site is estimated to be 60,000 cubic yards.

All soil/fill/solid waste excavated and removed from the Site will be treated as contaminated and regulated material and will be disposed in accordance with all local, State (including 6 NYCRR Part 360) and Federal regulations. If disposal of soil/fill from this Site is proposed for unregulated disposal (i.e. clean soil removed for development purposes), a formal request with an associated plan will be made to NYSDEC's Project Manager. Unregulated off-Site management of materials from this Site is prohibited without formal NYSDEC approval.

Material that does not meet Track 1 unrestricted SCOs is prohibited from being taken to a New York State recycling facility (6NYCRR Part 360.15 Registration Facility).

The following documentation will be obtained and reported by the Remedial Engineer for each disposal location used in this project to fully demonstrate and document that the disposal of material derived from the Site conforms with all applicable laws: (1) a letter from the Remedial Engineer or BCP Applicant to the receiving facility describing the material to be disposed and requesting formal written acceptance of the material. This letter will state that material to be disposed is contaminated material generated at an environmental remediation Site in New York State. The letter will provide the project identity and the name and phone number of the Remedial Engineer. The letter will include as an attachment a summary of all chemical data for the material being transported (including Site Characterization data); and (2) a letter from all receiving facilities stating it is in receipt of the correspondence (above) and is approved to accept the material. These documents will be included in the FER.

Non-hazardous historic fill and contaminated soils taken off-Site will be handled, at minimum, as a Municipal Solid Waste per 6NYCRR Part 360.2. The Remedial Engineer is responsible for assuring material is properly characterized and determining the appropriate disposal methods based on the characterization results.

Historical fill and contaminated soils from the Site are prohibited from being disposed at Part 360.15 Registration Facilities (also known as Soil Recycling Facilities).

Soils that are contaminated but non-hazardous and are being removed from the Site are considered by the NYSDEC Division of Materials Management (DMM) to be Construction and Demolition (C/D) materials with contamination not typical of virgin soils. These soils may be sent to a permitted Part 360 landfill. They may be sent to a permitted C/D processing facility without permit modifications only upon prior notification of NYSDEC DMM. This material is prohibited from being sent or redirected to a Part 360-15 Registration Facility. In this case, as dictated by DMM, special procedures will include, at a minimum, a letter to the C/D facility that provides a detailed explanation that the material is derived from a DER remediation Site, that the soil material is contaminated and that it must not be redirected to on-Site or off-Site Soil Recycling Facilities. The letter will provide the project identity and the name and phone number of the Remedial Engineer. The letter will include as an attachment a summary of all chemical data for the material being transported.

The FER will include an accounting of the destination of all material removed from the Site during this Remedial Action, including excavated soil, contaminated soil, historic fill, solid waste, and hazardous waste, non-regulated material, and fluids. Documentation associated with disposal of all material must also include records and approvals for receipt of the material. This information will also be presented in a tabular form in the FER.

Bill of Lading system or equivalent will be used for off-Site movement of non-hazardous wastes and contaminated soils. This information will be reported in the FER.

Hazardous wastes derived from on-Site will be stored, transported, and disposed of in full compliance with applicable local, State, and Federal regulations.

Appropriately licensed haulers will be used for material removed from this Site and will be in full compliance with all applicable local, State and Federal regulations.

Waste characterization sampling will be performed exclusively for the purposes of off-Site soil disposal in a manner suitable to receiving facilities and in conformance with applicable federal, state and local laws rules and regulations and facility-specific permits. Sampling and analytical methods, sampling frequency, analytical results and QA/QC associated with waste characterization activities will be reported in the FER. All data available for soil/material to be disposed at a given facility must be submitted to the disposal facility with suitable explanation

prior to shipment and receipt. Waste characterization data will be used solely for complying with requirements for off-site disposal. Waste Characterization sampling cannot be utilized for:

- Delineating the extent of contamination required for remediation at a Site.
- Replacing or substituting data collected as part of Site Characterization and/or Remedial Investigation.
- Replacing or substituting confirmation or documentation sampling as described in NYSDEC DER-10, Section 5.4.
- To modify remedial decisions as formalized in a NYSDEC approved Decision Document or Record of Decision.

5.4.6 MATERIALS REUSE ON-SITE

If On-Site material is suitable for reuse, and if it is needed, the proposed materials for reuse on-Site will be sampled for full suite analytical parameters including PFAS and 1,4-dioxane. The sampling frequency will be in accordance with DER-10 Table 5.4(e)10 unless prior approval is obtained from the NYSDEC project manager for modification of the sampling frequency. The analytical results of soil/fill material testing must meet the Site use criteria presented in NYSDEC DER-10 Appendix 5 – Allowable Constituent Levels for Imported Fill or Soil for all constituents listed, and the NYSDEC Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances [April 2023] guidance values. Approvals for modifications to the analytical parameters must be obtained from the NYSDEC project manager prior to the sampling event.

The Remedial Engineer will ensure that procedures defined for materials reuse in this RAWP are followed and that unacceptable material will not remain on-Site.

A “Request to Import/Reuse Fill Material” form will be filed with the NYSDEC project manager for review and approval prior to material reuse on the site. Acceptable demolition material proposed for reuse on-Site, if any, will be sampled for asbestos.

Concrete crushing or processing on-Site is prohibited, unless NYSDEC has specifically approved on-site processing and reuse of acceptable demolition material.

Organic matter (wood, roots, stumps, etc.) or other solid waste derived from clearing and grubbing of the Site is prohibited for reuse on-Site.

Contaminated on-Site material, including historic fill and contaminated soil, removed for grading or other purposes will not be reused within a cover soil layer, within landscaping berms, or as backfill for subsurface utility lines. This will be expressed in the Site Management Plan (SMP).

5.4.7 FLUIDS MANAGEMENT

All liquids to be removed from the Site, including dewatering fluids, will be handled, transported and disposed in accordance with applicable local, State, and Federal regulations.

Dewatered fluids will not be recharged back to the land surface or subsurface of the Site. Dewatering fluids are anticipated to be treated through an on-Site dewatering system. It is anticipated that groundwater will be pumped from sumps placed within the remedial excavation and conveyed through a water treatment system that will be approved and permitted by the Westchester Country Department of Environmental Facilities for discharge to the sanitary sewer system or to the storm water system under authorization form the City of White Plains.

Discharge of water generated during remedial construction to surface waters (i.e. a local pond, stream, or river) is prohibited without a SPDES permit.

5.4.8 BACKFILL FROM OFF-SITE SOURCES

Backfilling may be needed in certain of areas on the Site. The imported material, if needed, will be sampled in accordance with DER-10 Section 5.4 (e) Table 5.4 (e)10. The samples will be analyzed for TCL VOCs, TCL SVOCs, pesticides, PCBs, and TAL metals, including cyanide. The soil may be used as cover material provided that all parameters meet the UUSCOs, per the NYSDEC regulatory requirements. In addition, composite samples will be collected for emerging contaminants in accordance with the NYSDEC Sampling, Analysis, and Assessment of Per-and-Polyfluoroalkyl Substances (April 2023).

All materials proposed for import onto the Site will be approved by the Remedial Engineer and will be in compliance with provisions in this RAWP prior to receipt at the Site.

Material from industrial sites, spill sites, other environmental remediation sites or other potentially contaminated sites will not be imported to the Site. Solid waste will not be imported onto the Site.

The FER will include the following certification by the Remedial Engineer: “I certify that all import of soils from off-Site, including source evaluation, approval and sampling, has been performed in a manner that is consistent with the methodology defined in the Remedial Action Work Plan”.

All imported soils will meet NYSDEC approved backfill or cover soil quality objectives for this Site. These NYSDEC approved backfill or cover soil quality objectives are the lower of the protection of groundwater or the protection of public health soil cleanup objectives for unrestricted use as set forth in Table 375-6.8(b) of 6 NYCRR Part 375. Non-compliant soils will not be imported onto the Site without prior approval by NYSDEC. Nothing in the approved RAWP or its approval by NYSDEC should be construed as an approval for this purpose.

Soils that meet 'general fill' requirements under 6 NYCRR Part 360.13, but do not meet backfill or cover soil objectives for this Site, will not be imported onto the Site without prior approval by NYSDEC. Nothing in this RAWP should be construed as an approval for this purpose.

A "Request to Import/Reuse Fill Material" form will be filed with the NYSDEC project manager for review and approval prior to import to the site.

5.4.9 STORMWATER POLLUTION PREVENTION

An erosion and sediment control plan will be prepared prior to the start of ground-intrusive activities.

Barriers and hay bale checks will be installed and inspected once a week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the Site and available for inspection by NYSDEC. All necessary repairs shall be made immediately.

Accumulated sediments will be removed as required to keep the barrier and hay bale check functional.

All undercutting or erosion of the silt fence toe anchor shall be repaired immediately with appropriate backfill materials.

Manufacturer's recommendations will be followed for replacing silt fencing damaged due to weathering.

Erosion and sediment control measures identified in the RAWP shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters.

Silt fencing or hay bales will be installed around the entire perimeter of the remedial construction area.

5.4.10 CONTINGENCY PLAN

If underground tanks or other previously unidentified contaminant sources are found during on-Site remedial excavation or development related construction, sampling will be performed on product, sediment and surrounding soils, etc. in accordance with DER-10. Chemical analytical work will be for full scan parameters (TAL metals; TCL volatiles and semi-volatiles, TCL pesticides, PCBs, and PFAS). Analyses will not be otherwise limited without NYSDEC approval.

Identification of unknown or unexpected contaminated media identified by screening during invasive Site work will be promptly communicated by phone to NYSDEC's Project Manager. These findings will be also included in daily and periodic electronic media reports.

5.4.11.1 ***Extreme Storm Preparedness and Response Contingency Plan – Climate Vulnerability Assessment***

Damage from flooding or storm surge can include dislocation of soil and stockpiled materials, dislocation of site structures and construction materials and equipment, and dislocation of support of excavation structures. Damage from wind during an extreme storm event can create unsafe or unstable structures, damage safety structures and cause downed power lines creating dangerous site conditions and loss of power. In the event of emergency conditions caused by an extreme storm event, the Applicants will undertake the following steps for site preparedness prior to the event and response after the event.

Storm Preparedness

Preparations in advance of an extreme storm event will include the following: containerized hazardous materials and fuels will be removed from the property; loose materials will be secured to prevent dislocation and blowing by wind or water; heavy equipment such as excavators and generators will be removed from excavated areas, trenches and depressions on the property to high ground or removed from the property; an inventory of the property with photographs will be performed to establish conditions for the site and equipment prior to the event; stockpile covers for soil and fill will be secured by adding weights such as sandbags for added security and worn or ripped stockpile covers will be replaced with competent covers; stockpiled hazardous wastes will be removed from the property; stormwater management systems will be inspected and fortified, including, as necessary: clean and reposition silt fences, hay bales; clean storm sewer filters and traps; and secure and protect pumps and hosing.

Storm Response

At the conclusion of an extreme storm event, as soon as it is safe to access the property, a complete inspection of the property will be performed. A site inspection report will be submitted to NYSDEC at the completion of site inspection and after the site security is assessed. Site conditions will be compared to the inventory of site conditions and material performed prior to the storm event and significant differences will be noted. Damage from storm conditions that result in acute public safety threats, such as downed power lines or imminent collapse of buildings, structures or equipment will be reported to public safety authorities via appropriate means such as calling 911.

Petroleum spills will be reported to NYSDEC within 2 hours of identification and consistent with State regulations. Public safety structures, such as construction security fences will be repaired promptly to eliminate public safety threats. Debris will be collected and removed.

Dewatering will be performed in compliance with existing laws and regulations and consistent with emergency notifications, if any, from proper authorities. Eroded areas of soil including unsafe slopes will be stabilized and fortified. Dislocated materials will be collected and appropriately managed. Support of excavation structure will be inspected and fortified as necessary. Impacted stockpiles will be contained and damaged stockpile covers will be replaced. Stormwater control systems and structures will be inspected and maintained as necessary.

If soil or fill materials are discharged off site to adjacent properties, property owners and NYSDEC will be notified, and corrective measure plan designed to remove and clean dislocated material will be submitted to NYSDEC and implemented following approval by NYSDEC and granting of site access by the property owner. Impacted offsite areas may require characterization based on site conditions, at the discretion of NYSDEC.

If onsite petroleum spills are identified, a qualified environmental professional will determine the nature and extent of the spill and report to NYSDEC's spill hotline at (800) 457-7362 within statutory defined timelines. If the source of the spill is ongoing and can be identified, it should be stopped if this can be done safely. Potential hazards will be addressed immediately, consistent with guidance issued by NYSDEC.

Storm Response Reporting

A Site inspection report will be submitted to NYSDEC at the completion of a post-storm Site inspection. Site conditions will be compared to the inventory of Site conditions and material performed prior to the storm event and significant differences will be noted. The Site inspection

report will be sent to the NYSDEC project manager and will include the Site name, address, tax block and lot, Site primary and alternate contact name and phone number.

Damage and soil release assessment will include: whether the project had stockpiles; whether stockpiles were damaged; photographs of damage and notice of plan for repair; report of whether soil from the site was dislocated and whether any of the soil left the site; estimates of the volume of soil that left the site, nature of impact, and photographs; description of erosion damage; description of equipment damage; description of damage to the remedial program or the construction program, such as damage to the support of excavation; presence of onsite or offsite exposure pathways caused by the storm; presence of petroleum or other spills and status of spill reporting to NYSDEC; description of corrective actions; schedule for corrective actions.

This report should be completed and submitted to NYSDEC project manager with photographs within 24 hours of the time of safe entry to the property after the storm event.

5.4.11 COMMUNITY AIR MONITORING PLAN

A CAMP will be implemented during RAWP field work implementation in accordance with the requirements of DER-10 Appendix 1A. The objective of the CAMP is to provide a measure of protection for the downwind community from potential airborne contaminant releases that may arise during all ground-intrusive activities, and potentially contaminated soil and material handling and staging. In addition, the CAMP is intended to ensure that dust and contaminants are not leaving the work zone. Details of the air monitoring program including perimeter air monitoring objectives, methods, and actions levels are detailed in the CAMP is provided in **Appendix G**.

Exceedances observed in the CAMP will be reported to NYSDEC and NYSDOH Project Managers and included in the Daily Report.

5.4.12 ODOR, DUST AND NUISANCE CONTROL PLAN

The FER will include the following certification by the Remedial Engineer: “I certify that all invasive work during the remediation and all invasive development work were conducted in accordance with dust and odor suppression methodology defined in the Remedial Action Work Plan.”

5.4.12.1 ODOR CONTROL PLAN

This odor control plan is capable of controlling emissions of nuisance odors off-Site. Specific odor control methods to be used on a routine basis will include spraying of water to control dust that

may cause odors and modifying work practices or applying deodorizing or masking agents. . If nuisance odors are identified, work will be halted and the source of odors will be identified and corrected. Work will not resume until all nuisance odors have been abated. NYSDEC and NYSDOH will be notified of all odor events and of all other complaints about the project. Implementation of all odor controls, including the halt of work, will be the responsibility of the Applicants' Remedial Engineer, who is responsible for certifying the FER.

All necessary means will be employed to prevent on- and off-Site nuisances. At a minimum, procedures will include: (a) limiting the area of open excavations; (b) shrouding open excavations with tarps and other covers; and (c) using foams to cover exposed odorous soils; [add other elements as appropriate]. If odors develop and cannot be otherwise controlled, additional means to eliminate odor nuisances will include: (d) direct load-out of soils to trucks for off-Site disposal; (e) use of chemical odorants in spray or misting systems; and, (f) use of staff to monitor odors in surrounding neighborhoods.

Where odor nuisances have developed during remedial work and cannot be corrected, or where the release of nuisance odors cannot otherwise be avoided due to on-Site conditions or close proximity to sensitive receptors, odor control will be achieved by sheltering excavation and handling areas under tented containment structures equipped with appropriate air venting/filtering systems.

5.4.12.2 DUST CONTROL PLAN

A dust suppression plan that addresses dust management during invasive on-Site work will include, at a minimum, the items listed below:

- Dust suppression will be achieved through the use of a dedicated on-Site water truck or hookup to the fire hydrant for road wetting. The truck will be equipped with a water cannon capable of spraying water directly onto off-road areas including excavations and stockpiles.
- Clearing and grubbing of larger sites will be done in stages to limit the area of exposed, unvegetated soils vulnerable to dust production.
- Gravel will be used on roadways to provide a clean and dust-free road surface.
- On-Site roads will be limited in total area to minimize the area required for water spraying.

5.4.12.3 OTHER NUISANCES

A plan for rodent control will be developed and utilized by the contractor prior to and during Site clearing and Site grubbing, and during all remedial work.

A plan will be developed and utilized by the contractor for all remedial work and will conform, at a minimum, to City of White Plains noise control standards.

6.0 RESIDUAL CONTAMINATION

After all soil exceeding the Track 1 UUSCOs has been removed, and extensive groundwater dewatering and treatment have been implemented, groundwater monitoring will be performed to document that AWQS or asymptotic levels have been achieved. The plan is not to have residual contamination remaining on the Site before the COC is issued.

The FER will report if any residual contamination remains on the Site in tabular and map form to the extent only a Track 2 remedy has been achieved. This will include presentation of exceedances of any Track 1 UUSCOs or considerable AWQS remaining exceedances in groundwater.

7.0 GROUNDWATER TREATMENT

Groundwater treatment will include petroleum hydrocarbon amendments (i.e., PetroFix, or equivalent) mixed into the saturated zone at the bottom of remedial excavation. The remedy would include subsequent in-situ injections unless post-construction sampling concludes that the AWQSGVs or asymptotic levels are met by dewatering and soil amendments. Volume and density application rates for chemical oxidant and/or biological nutrient (the petroleum hydrocarbon amendments and/or in-situ injection) will be based on the manufacturer's recommendations. A letter from the manufacturer stating recommended dosage rates would be provided to NYSDEC and will be included in the Final Engineering Report.

All as-built drawings, diagrams, calculation and manufacturer documentation for treatment systems would be presented in the FER.

7.1 Groundwater Monitoring System

A network of groundwater monitoring wells will be installed in following remediation in locations approximate to the RI monitoring well network that will be utilized to monitor the groundwater quality and to demonstrate the reduction in groundwater contamination to asymptotic levels.

7.2 Vapor Barrier

A layer of impermeable membrane will be installed directly under the garage slab as a green remediation measure as part of the construction.

8.0 CRITERIA FOR COMPLETION OF REMEDIATION/TERMINATION OF REMEDIAL SYSTEMS

8.1 Groundwater Monitoring

Groundwater monitoring activities to assess the performance of the remedy, or natural attenuation following the removal of contaminant sources, will continue, as determined by NYSDOH and NYSDEC, until residual groundwater concentrations are found to be below NYSDEC standards or have become asymptotic. Monitoring will continue until permission to discontinue is granted in writing by NYSDEC and NYSDOH. Unless the extensive dewatering effort achieves the AWQSGVs or asymptotic levels, it is anticipated that, following remediation, a minimum of two quarterly monitoring events will be performed.

9.0 INSTITUTIONAL CONTROLS

No institutional controls are anticipated for the unconditional Track 1 remedy. To the extent only a Track 2 remedy is achieved, then a Site-specific Environmental Easement would be recorded with Westchester County and the City of White Plains to provide an enforceable means of ensuring the continual and proper management of residual contamination and protection of public health and the environment in perpetuity or until released in writing by NYSDEC. The easement would require that the grantor of the Environmental Easement and the grantor's successors and assigns to adhere to all Engineering and Institutional Controls (ECs/ICs) placed on this Site by this NYSDEC-approved remedy. ICs provide restrictions on Site usage and mandate operation, maintenance, monitoring and reporting measures for all ECs and ICs. The SMP would describe appropriate methods and procedures to ensure compliance with all ECs and ICs that are required by the Environmental Easement. If an SMP is required, compliance with the SMP is required by the grantor of the Environmental Easement and grantor's successors and assigns.

9.1 Environmental Easement

An Environmental Easement, as defined in Article 71 Title 36 of the Environmental Conservation Law, is required when residual contamination is left on-Site after the Remedial Action is complete. If needed based on remaining groundwater contamination, an Environmental Easement approved by NYSDEC would be filed and recorded with the Westchester County Office of the City Register. The Environmental Easement would be submitted as part of the Final Engineering Report.

The Environmental Easement renders the Site a Controlled Property. The Environmental Easement must be recorded with Westchester County and the City of White Plains before the Certificate of Completion can be issued by NYSDEC. A series of Institutional Controls may be required under this remedy to implement, maintain, and monitor these Engineering Control systems (if needed), prevent future exposure to residual contamination by controlling disturbances of the subsurface soil and restricting the use of the Site to approved use(s) only. These Institutional Controls would be requirements or restrictions placed on the Site that are listed in, and required by, the Environmental Easement. Institutional Controls can, generally, be subdivided between controls that support Engineering Controls, and those that place general restrictions on Site usage or other requirements. Institutional Controls in both of these groups are closely integrated with the SMP, which provides all of the methods and procedures to be followed to comply with this remedy.

If needed based on remaining groundwater results that have not achieved asymptotic levels, the Institutional Controls that may be needed to support Engineering Controls are:

- Compliance with the Environmental Easement by the Grantee and the Grantee's successors and adherence of all elements of the SMP is required;
- All Engineering Controls must be operated and maintained as specified in this SMP;
- All Engineering Controls on the Controlled Property must be inspected and certified at a frequency and in a manner defined in the SMP;
- Groundwater, monitoring must be performed as defined in the SMP;
- Data and information pertinent to Site Management for the Controlled Property must be reported at the frequency and in a manner defined in the SMP;
- On-Site environmental monitoring devices, including but not limited to, groundwater monitor wells and soil vapor probes, must be protected and replaced as necessary to ensure proper functioning in the manner specified in the SMP;

- Engineering Controls may not be discontinued without an amendment or extinguishment of the Environmental Easement.

Adherence to these Institutional Controls for the Site may be mandated by the temporary Environmental Easement and, if needed, would be implemented under the SMP (discussed in the next section). The Controlled Property (Site) would also have a series of Institutional Controls in the form of Site restrictions and requirements. The Site restrictions that apply to the Controlled Property may include:

- Vegetable gardens and farming on the Controlled Property are prohibited;
- Use of groundwater underlying the Controlled Property is prohibited without treatment rendering it safe for intended purpose;
- All future activities on the Controlled Property that will disturb residual contaminated material are prohibited unless they are conducted in accordance with the soil management provisions in the SMP;
- The Controlled Property may be used for approved use only, provided the long-term Engineering and Institutional Controls included in the SMP are employed;
- The Controlled Property may not be used for a higher level of use without an amendment or extinguishment of this Environmental Easement;
- Grantor agrees to submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow. This periodic statement must be certified by an expert that the NYSDEC finds acceptable.

9.2 Site Management Plan

If needed because an unconditional track 1 is not achieved, the SMP is submitted as part of the FER but will be written in a manner that allows its removal and use as a complete and independent

document. If needed, Site Management continues in perpetuity or until released in writing by NYSDEC. The property owner is responsible to ensure that all Site Management responsibilities defined in the Environmental Easement and the SMP are performed.

The SMP should include methods to incorporate and track GSR. Measures should be taken to maintain a cost-effective, protective remedy that remains conscientious of the Site's environmental footprint. At a minimum, the following should be assessed: waste generation, energy usage, emissions, and water usage.

The SMP is intended to provide a detailed description of the procedures required to manage residual contamination that may be left in place at the Site following completion of the Remedial Action in accordance with the BCA with the NYSDEC. This includes: (1) development, implementation, and management of all Engineering and Institutional Controls; (2) development and implementation of monitoring systems and a Monitoring Plan; (3) development of a plan to operate and maintain any treatment, collection, containment, or recovery systems (including, where appropriate, preparation of an Operation and Maintenance Manual); (4) submittal of Site Management Reports, performance of inspections and certification of results, and demonstration of proper communication of Site information to NYSDEC; and (5) defining criteria for termination of treatment system operation.

To address these needs, this SMP would include four plans: (1) an Engineering and Institutional Control Plan for implementation and management of EC/ICs; (2) a Monitoring Plan for implementation of Site Monitoring; (3) an Operation and Maintenance Plan for implementation of remedial collection, containment, treatment, and recovery systems; and (4) a Site Management Reporting Plan for submittal of data, information, recommendations, and certifications to NYSDEC. The SMP will be prepared in accordance with the requirements in NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation and the guidelines provided by NYSDEC.

Site management activities, reporting, and EC/IC certification will be scheduled on a certification period basis. The certification period would be annually. The SMP would be based on the certifying period relative to the date of issuance of the COC. The first submission would be due 16 months after the issuance of the COC, and annually (or at another frequency as approved by NYSDEC) thereafter.

To the extent an unconditional Track 1 is not achieved, the SMP in the FER will include a monitoring plan for groundwater at the down-gradient Site perimeter to evaluate Site-wide

performance of the remedy. Appropriately placed groundwater monitor wells will also be installed immediately down-gradient of all source remediation areas for the purpose of evaluation of the effectiveness of the remedy that is implemented.

No exclusions for handling of residual contaminated soils will be provided in the SMP. All handling of residual contaminated material will be subject to provisions contained in the SMP.

10.0 FINAL ENGINEERING REPORT

A Final Engineering Report (FER) will be submitted to NYSDEC following implementation of the Remedial Action defined in this RAWP. The FER provides the documentation that the remedial work required under this RAWP has been completed and has been performed in compliance with this plan. The FER will provide a comprehensive account of the locations and characteristics of all material removed from the Site including the surveyed map(s) of all sources. The Final Engineering Report will include as-built drawings for all constructed elements, calculation and manufacturer documentation for treatment systems, certifications, manifests, bills of lading as well as the complete SMP. The FER will provide a description of the changes in the Remedial Action from the elements provided in the RAWP and associated design documents. The FER will provide a tabular summary of all performance evaluation sampling results and all material characterization results and other sampling, and chemical analysis performed as part of the Remedial Action. The FER will provide test results demonstrating that all mitigation and remedial systems are functioning properly. The FER will be prepared in conformance with DER-10.

Where determined to be necessary by NYSDEC, a Financial Assurance Plan will be required to ensure the sufficiency of revenue to perform long-term operations, maintenance and monitoring tasks defined in the Site Management Plan and Environmental Easement. This determination will be made by NYSDEC in the context of the FER review.

The FER will include written and photographic documentation of all remedial work performed under this remedy.

The FER will include an itemized tabular description of actual costs incurred during all aspects of the Remedial Action.

The FER will provide a thorough summary of any residual contamination left on the Site after the remedy is complete if unconditional track 1 is not achieved. Residual contamination includes all contamination that exceeds the Track 1 Unrestricted Use SCO in 6 NYCRR Part 375-6. A table

that shows any exceedances from Track 1 Unrestricted SCOs for all soil/fill remaining at the Site after the Remedial Action and a map that shows the location and summarizes exceedances from Track 1 Unrestricted SCOs for all soil/fill remaining at the Site after the Remedial Action will be included in the FER.

The FER will provide a thorough summary of all residual contamination that exceeds the SCOs defined for the Site in the RAWP and must provide an explanation for why the material was not removed as part of the Remedial Action. A table that shows any residual contamination in excess of Site UUSCOs and a map that shows any residual contamination in excess of Site UUSCOs will be included in the FER.

The FER will include an accounting of the destination of all material removed from the Site, including excavated contaminated soil, historic fill, solid waste, hazardous waste, non-regulated material, and fluids. Documentation associated with disposal of all material must also include records and approvals for receipt of the material. It will provide an accounting of the origin and chemical quality of all material imported onto the Site.

The FER must include a discussion of the green remediation practices/technologies employed throughout the remedial program. A final footprint analysis using a DER accepted model, and any tracking methods used through the construction including restoration activities. Before approval of a FER and issuance of a COC, all project reports must be submitted in digital form on electronic media (PDF).

10.1 Certifications

The following certification will appear in front of the Executive Summary of the Final Engineering Report. The FER will be prepared, stamped and the following certification signed by an individual licensed or otherwise authorized in accordance with article 145 of the education law to practice the profession of engineering. The certification will include the following statements:

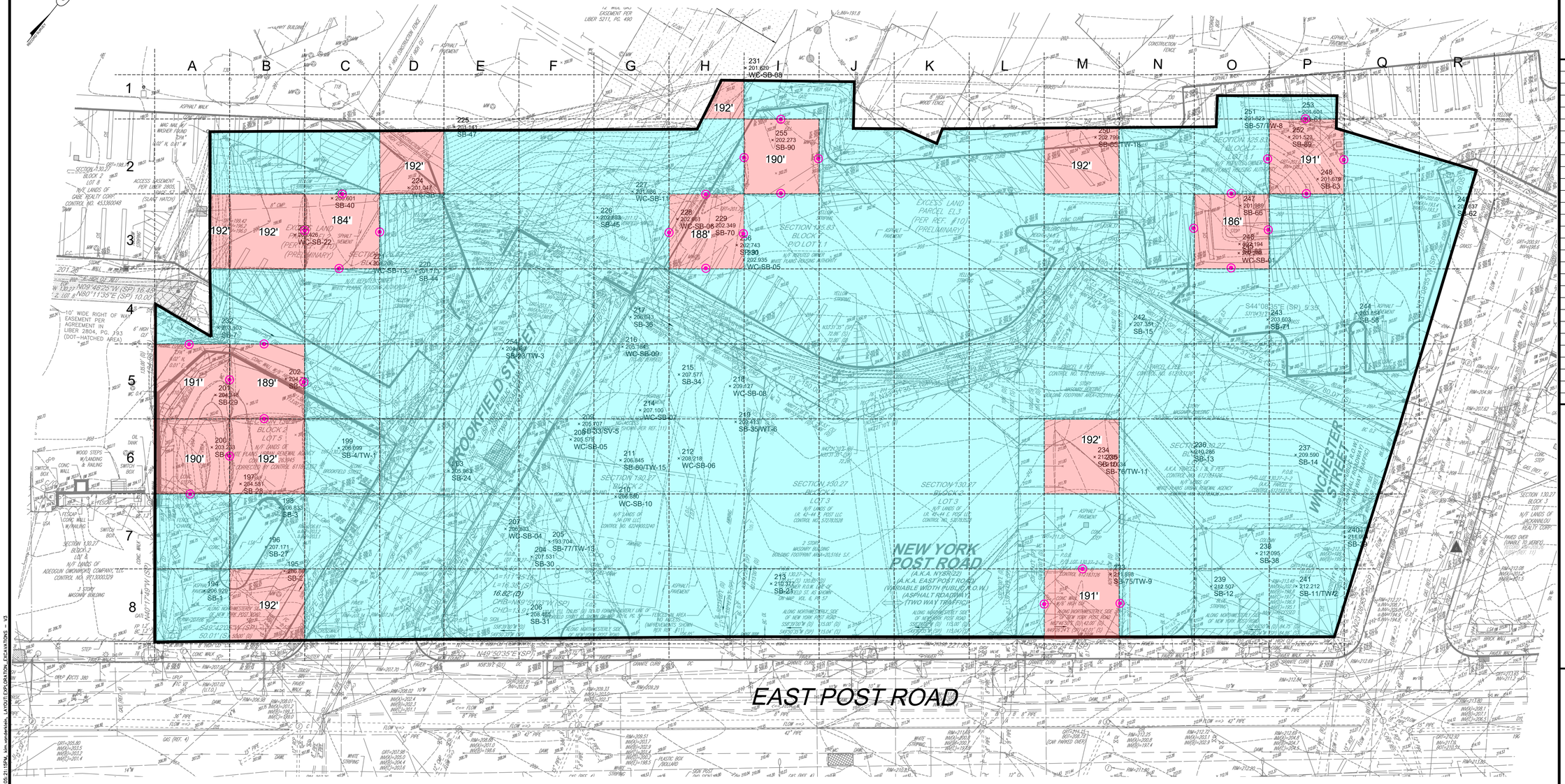
I, _____, am currently a registered professional engineer licensed by the State of New York, I had primary direct responsibility for implementation of the remedial program activities, and I certify that the Remedial Action Work Plan was implemented and that all construction activities were completed in substantial conformance with the Department-approved Remedial Action Work Plan.

I certify that all data generated in support of this report have been submitted in accordance with the Department's electronic data deliverable and have been accepted by the Department.

I certify that all information and statements in this certification are true. I understand that a false statement made herein is punishable as Class “A” misdemeanor, pursuant to Section 210.45 of the Penal Law. I, [name], of [business address], am certifying as Owner’s Designated Site Representative for the site.

It is a violation of Article 145 of New York State Education Law for any person to alter this document in any way without the express written verification of adoption by any New York State licensed engineer in accordance with Section 7209(2), Article 145, New York State Education Law.

Figures



LEGEND:

- SITE BOUNDARY
- BOTTOM OF EXCAVATION - 193'
- 192' - BOTTOM OF EXCAVATION ELEVATION AS NOTED
- PROPOSED SIDEWALL SAMPLE LOCATION

NYS Education Law
Unauthorized alterations or additions to this plan are a violation of section 7209 (2) of the New York State Education Law. Copies of this map not having the seal of the engineer shall not be valid.

© SESI CONSULTING ENGINEERS 2026
This drawing and all information contained here on is proprietary information of SESI CONSULTING ENGINEERS and may not be copied or reproduced, either in whole or in part, by any method, without written permission of SESI CONSULTING ENGINEERS

REFERENCE:
EXISTING CONDITIONS & BOUNDARY ARE TAKEN FROM "BOUNDARY, TOPOGRAPHIC & UTILITY SURVEY", BY CONTROL POINT ASSOCIATES, INC, PC, DATED SEPTEMBER 3, 2025.

NOTES:
1. ONE ENDPOINT SAMPLE WILL BE COLLECTED FROM THE BOTTOM OF EACH EXCAVATION AT A MINIMUM FREQUENCY OF ONE (1) SAMPLE PER 900 SQUARE FEET. EACH GRID SHOWN ON THIS FIGURE IS 900 SQUARE FEET OR SMALLER.
2. ONE ENDPOINT SAMPLE WILL BE COLLECTED FROM THE SIDEWALL OF EACH EXCAVATION AT A MINIMUM FREQUENCY OF ONE (1) SAMPLE PER 30 LINEAR FEET WHEN THE DIFFERENCE IN ELEVATION BETWEEN ADJACENT EXCAVATIONS IS GREATER THAN OR EQUAL TO TWO (2) FEET. PROPOSED SIDEWALL LOCATIONS ARE SHOWN ON THIS FIGURE.

Scale: 1"= 20'
0 10 20 40 60 80

KEY MAP

rev	date	description

SESI CONSULTING ENGINEERS
GEOTECHNICAL | ENVIRONMENTAL | SITE CIVIL
959 ROUTE 46E. 3RD FLOOR, PARSIPPANY, NJ 07054 PH: 973.808.9050

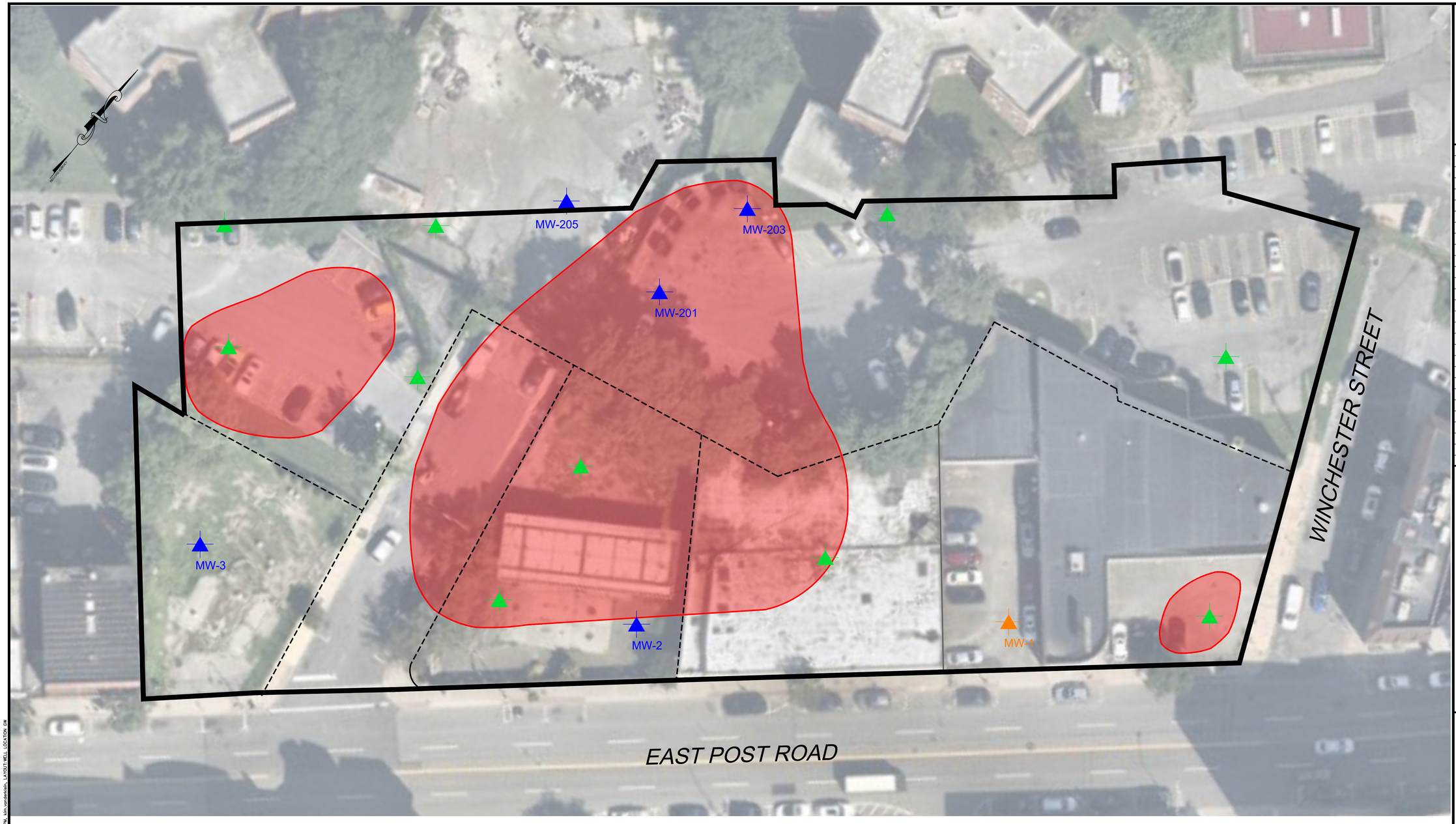
project:
EAST POST ROAD GARAGE SITE
40 EAST POST ROAD
WHITE PLAINS, NEW YORK 10601

title:
PROPOSED EXCAVATION AND ENDPOINT SAMPLING PLAN

dwg by: EC
chk by: AS
scale: AS NOTED
date: 5/20/2026

job no. 14228
drawing no. 5.1
1 of 1

N:\ACAD\14228\CAD\ENVIRONMENTAL\NEW DATA\14228wcEXPLORATION - EXCAVATIONS - V3.DWG 05/20/26 05:21:18PM tom.vanderkam, LAYOUT:EXPLORATION_EXCAVATIONS - V3



NOTES:
1. FIGURE DEPICTS PROPOSED MONITORING WELL NETWORK FOLLOWING COMPLETION OF EXCAVATION ACTIVITIES AND BUILDING CONSTRUCTION.
2. PROPOSED WELL LOCATIONS ARE APPROXIMATE.

REFERENCE:
1. EXISTING SITE INFORMATION PROVIDED BY CONTROL POINT ASSOCIATES, INC., "EXHIBIT SKETCH", DATED JUNE 7, 2022.

NYS Education Law
Unauthorized alterations or additions to this plan are a violation of section 7209 (2) of the New York State Education Law. Copies of this map not having the seal of the engineer shall not be valid.

© SESI CONSULTING ENGINEERS 2026
This drawing and all information contained here on is proprietary information of SESI CONSULTING ENGINEERS and may not be copied or reproduced, either in whole or in part, by any method, without written permission of SESI CONSULTING ENGINEERS

LEGEND:

- MW-1 - EXISTING MONITORING WELL LOCATION- TO BE ABANDONED
- MW-205 - EXISTING MONITORING WELL LOCATION- TO BE PROTECTED/RE-INSTALLED
- PROPOSED MONITORING WELL LOCATION
- INFERRED EXTENT OF PETROLEUM-RELATED GROUNDWATER CONTAMINATION
- EXISTING LOT LINES
- FORMER LOT LINES
- SITE BOUNDARY

Scale: 1"= 20'
0 10 20 40 60 80

KEY MAP

rev	date	description

SESI CONSULTING ENGINEERS
GEOTECHNICAL | ENVIRONMENTAL | SITE CIVIL
959 ROUTE 46E, 3RD FLOOR, PARSIPPANY, NJ 07054 PH: 973.808.9050

project:
EAST POST ROAD
GARAGE SITE
40 EAST POST ROAD
WHITE PLAINS, NEW YORK 10601

title:
PROPOSED MONITORING WELL NETWORK

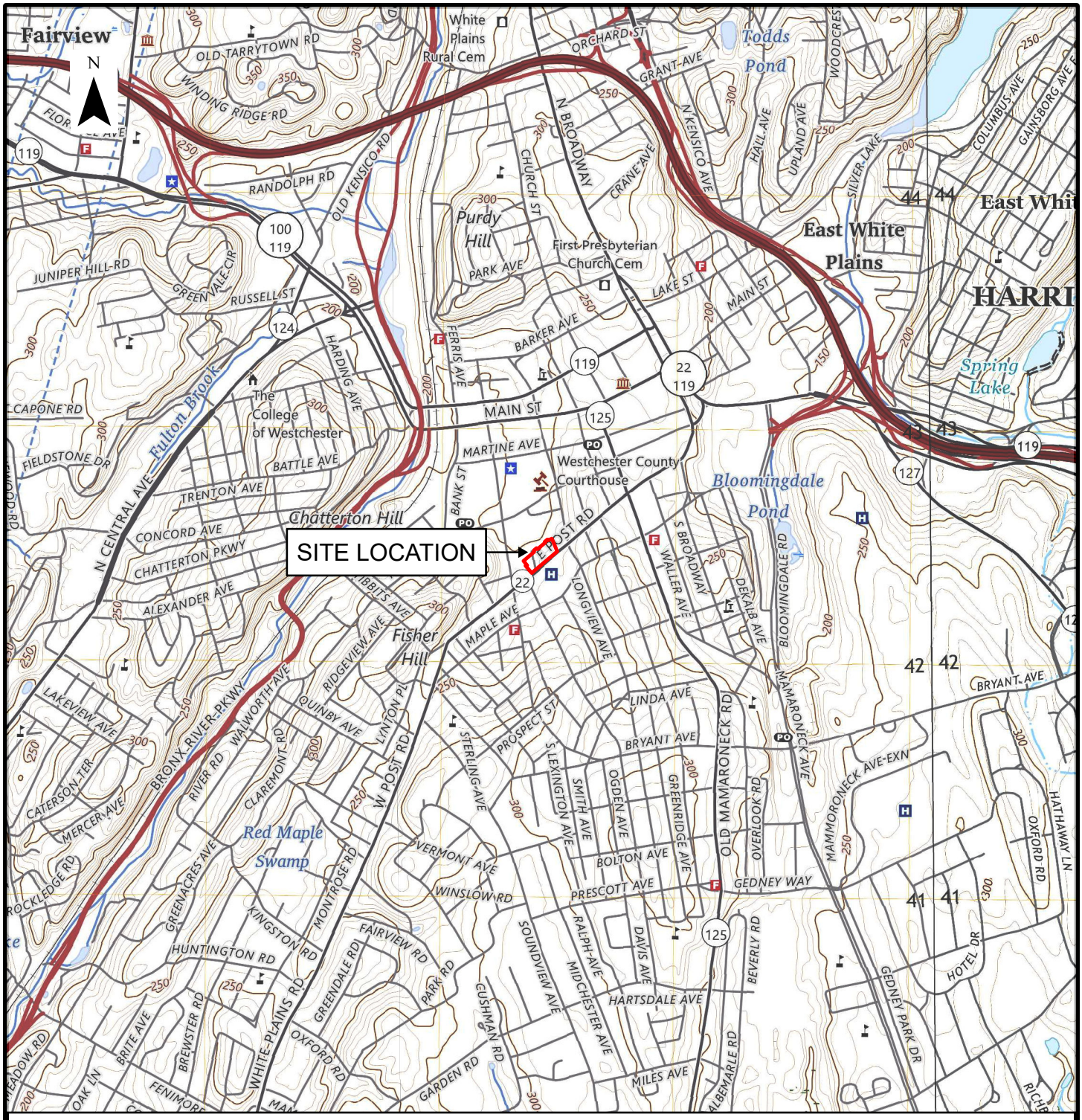
dwg by: AW
chk by: AS
scale: AS NOTED
date: 5/20/2026

job no. 14228
drawing no.
5.2
1 of 1

N:\CAD\14228\CAD\ENVIRONMENTAL\NEW DATA\14228.DWG WELL LOCATION MAP- OW.DWG 05/20/26 09:21:49PM, tom.vanderkam, LAYOUT: WELL LOCATION OW

Appendix A:

RIR Figures



REFERENCE:

UNITED STATES GEOLOGICAL SURVEY (USGS)
WHITE PLAINS, NY USGS QUADRANGLE - 2023

LEGEND:

SITE LOCATION

SCALE: 1" = 2,000'

0 1,000 2,000 4,000 FEET

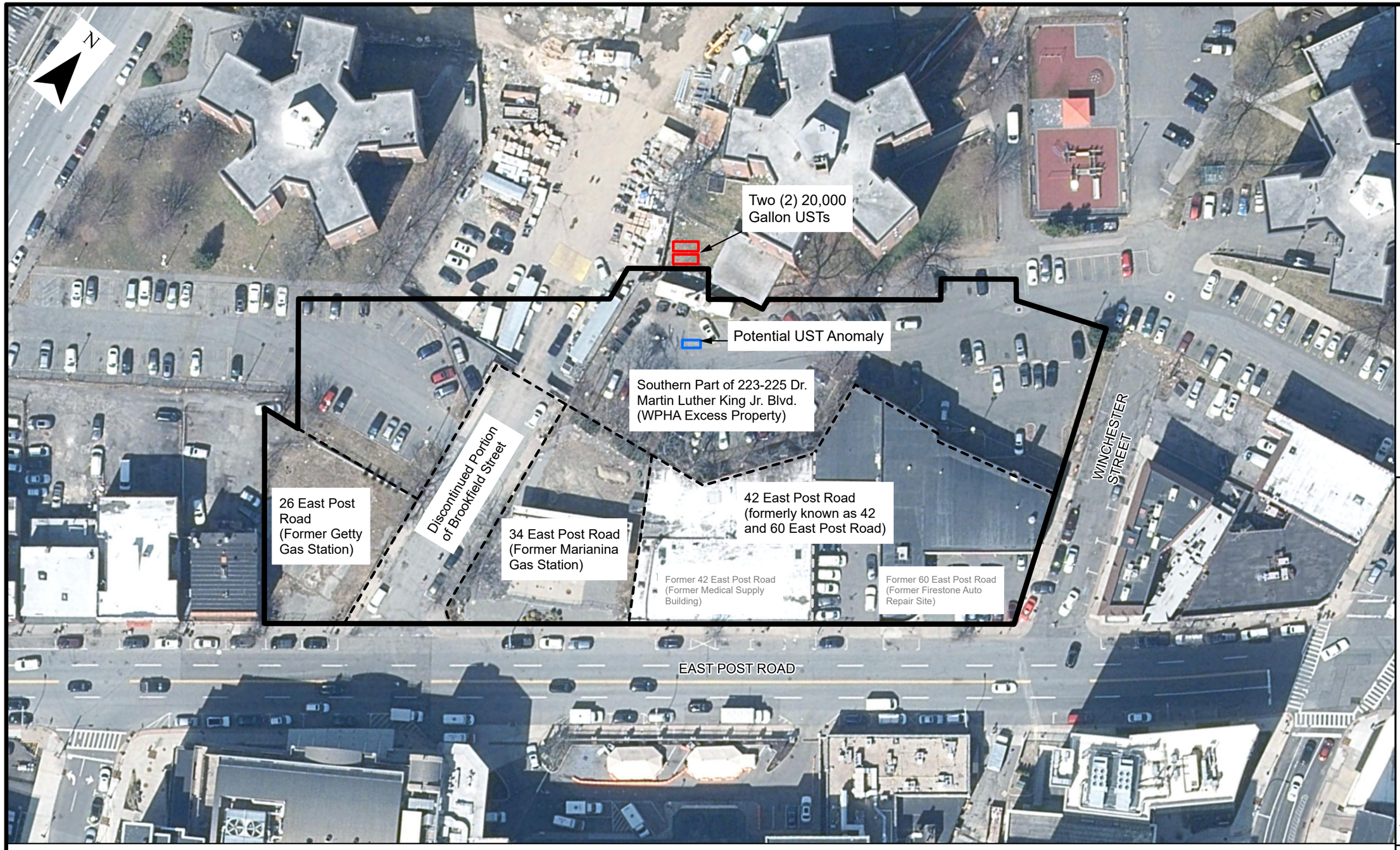
EAST POST ROAD GARAGE SITE
EAST POST ROAD, WHITE PLAINS, NY

SITE LOCATION MAP

SESI CONSULTING ENGINEERS
GEOTECHNICAL | ENVIRONMENTAL | SITE CIVIL
959 ROUTE 46E, 3RD FLOOR, PARSIPPANY, NJ 07054 PH: 973.808.9050

FIG-1.1	
DRAWN BY:	KBV
CHECKED BY:	BC
SCALE:	AS NOTED
DATE:	5/20/2026
JOB NO:	14228

Y:\GIS\Project_Numbers\14228\APRX_PROJECT\APRX_Phase1_Prj_No.aprx, 5/20/2026 3:45 PM, Kim VanderKlein, LAYOUT: FIG-1.1



© SESI CONSULTING ENGINEERS ---- 2026
This Drawing and all information contained here on is proprietary information of SESI CONSULTING ENGINEERS and may not be copied or reproduced, either in whole or in part, by method, without written permission of SESI CONSULTING ENGINEERS.

NYS Education Law

Unauthorized alterations or additions to this plan are a violation of section 7209 (2) of the New York State Education Law. Copies of this map not having the seal of the engineer shall not be valid.

REFERENCE:

1. EXISTING CONDITIONS & BOUNDARY ARE TAKEN FROM TAX LOT SURVEY" PREPARED BY CONTROL POINT ASSOCIATES, INC. PC, DATED 11-12-2025.

LEGEND:

- EXISTING LOT BOUNDARY
- FORMER LOT BOUNDARY
- POTENTIAL UST ANOMALY
- APPROX. LOCATION OF TWO (2) 20,000 GALLON USTs
- SITE BOUNDARY

SCALE: 1" = 60'

0 30 60 120 FEET

dwg by: KBV
chk by: BC
scale: AS NOTED
date: 5/19/2026

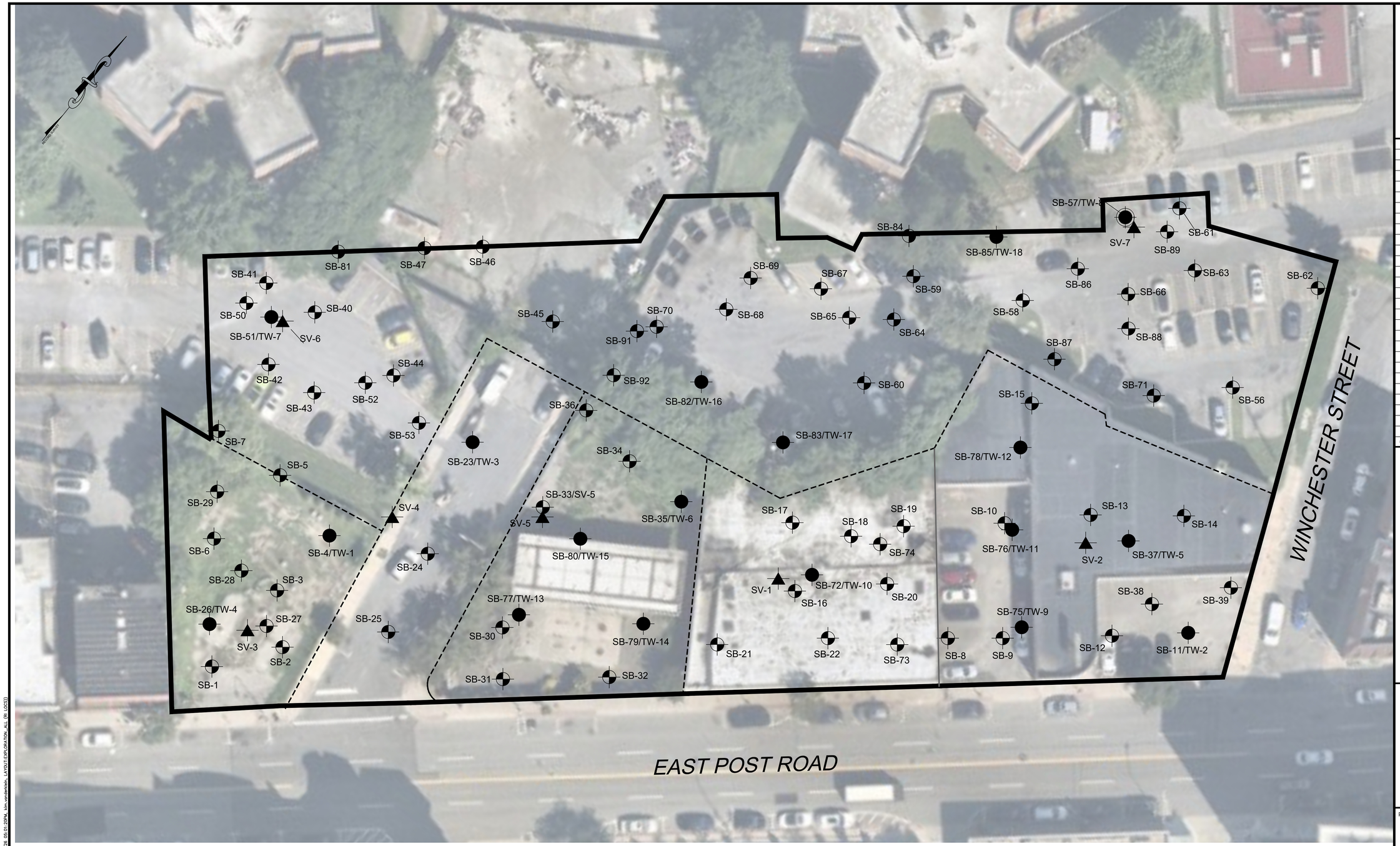
SESI CONSULTING ENGINEERS
GEOTECHNICAL | ENVIRONMENTAL | SITE CIVIL
959 route 46e, 3rd floor, parsippany, nj 07054 ph: 973.808.9050

project: EAST POST ROAD GARAGE SITE
EAST POST ROAD, WHITE PLAINS, NY

title: **SITE PLAN**

job no.: 14228
drawing no: FIG-2.1

Y:\GIS\Project_Numbers\14228\APRX_PROJECT\APRX_Standard_Fig_Prj_No_5_19_2026.aprx, 5/19/2026 3:40 PM, Kim Vanderklein, LAYOUT: FIG-2.1



KEY MAP

rev	date	description

SESI CONSULTING ENGINEERS
GEOTECHNICAL | ENVIRONMENTAL | SITE CIVIL
959 ROUTE 46E, 3RD FLOOR, PARSIPPANY, NJ 07054 PH: 973.808.9050

project:

EAST POST ROAD
GARAGE SITE
40 EAST POST ROAD
WHITE PLAINS, NEW YORK 10601

title:

RI SAMPLE
LOCATIONS

LEGEND:

- SITE BOUNDARY
- EXISTING LOT LINES
- FORMER LOT LINES
- SB-38 - BORING NUMBER & APPROX. LOCATION
- SB-37/TW-5 - SOIL BORING & TEMPORARY WELL LOCATION
- SV-7 - SOIL VAPOR NUMBER & APPROX. LOCATION

Scale: 1"= 20'
0 10 20 40 60 80

REFERENCE:
1. EXISTING SITE INFORMATION PROVIDED BY CONTROL POINT ASSOCIATES, INC., "EXHIBIT SKETCH", DATED JUNE 7, 2022.
2. SAMPLE LOCATIONS BEFORE 2025 WERE COLLECTED BY WOODARD & CURRAN.LOCATIONS AND LABORATORY RESULTS WERE PROVIDED BY CAPELLI ORGANIZATION VIA PDF ON JUNE 27, 2025.

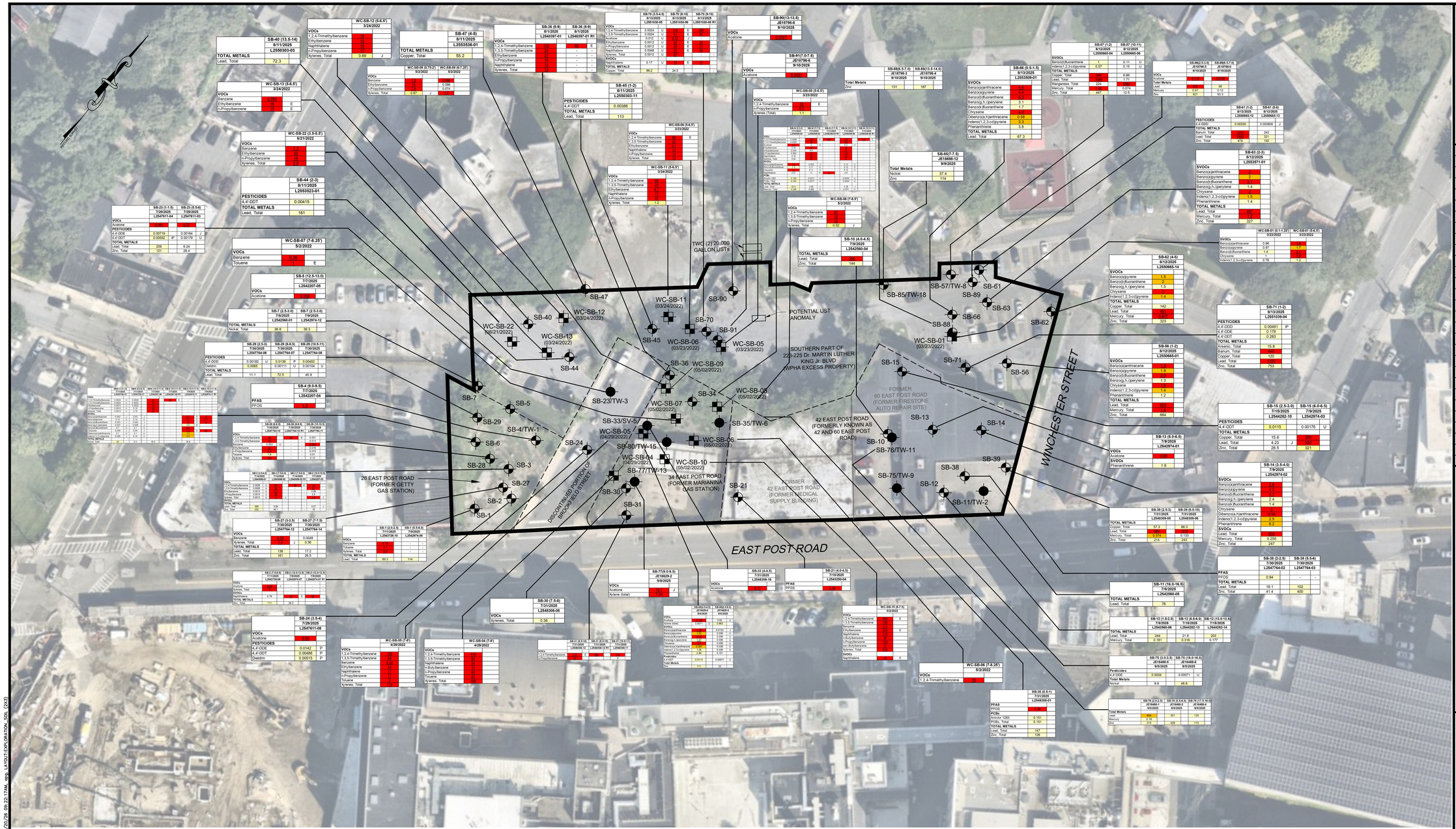
NYS Education Law
Unauthorized alterations or additions to this plan are a violation of section 7209 (2) of the New York State Education Law. Copies of this map not having the seal of the engineer shall not be valid.

© SESI CONSULTING ENGINEERS 2026
This drawing and all information contained here on is proprietary information of SESI CONSULTING ENGINEERS and may not be copied or reproduced, either in whole or in part, by any method, without written permission of SESI CONSULTING ENGINEERS

dwg by: AW
chk by: AS
scale: AS NOTED
date: 5/20/2026

job no. 14228
drawing no.
3.1
1 of 1

N:\ACAD\14228\CAD\ENVIRONMENTAL\NEW DATA\14228.DWG SITE – ALL.DWG 05/29/26 08:01:29PM kim.vanderkolk, LAYOUT:EXPLORATION_ALL (RI LOCS))



SOIL STANDARDS TABLE

	CAS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	Units
VOCs						
1,2,4-Trimethylbenzene	95-63-6	5.9	100	500	3.6	mg/kg
1,3,5-Trimethylbenzene	108-67-8	3.1	100	500	3.1	mg/kg
Acetone	67-64-1	0.03	100	500	0.03	mg/kg
Benzene	71-43-2	0.06	3.7	20	0.06	mg/kg
Ethylbenzene	100-41-4	1	76	390	1	mg/kg
Naphthalene	91-20-3	12	100	500	12	mg/kg
n-Butylbenzene	104-51-8	18	100	500	18	mg/kg
n-Propylbenzene	103-65-1	9	100	500	9	mg/kg
Toluene	108-88-3	0.7	100	500	0.7	mg/kg
Xylene (total)	1330-20-7	0.26	100	500	1.6	mg/kg
SVOCs						
Benzo(a)anthracene	56-55-3	1	1.8	27	1	mg/kg
Benzo(a)pyrene	50-32-8	1	1	2.7	22	mg/kg
Benzo(b)fluoranthene	205-99-2	1.1	1.4	27	1.7	mg/kg
Benzo(g,h,i)perylene	191-24-2	0.84	4.9	47	1000	mg/kg
Benzo(k)fluoranthene	207-08-9	0.8	1.4	27	1.7	mg/kg
Chrysene	218-01-9	1	4.9	47	1	mg/kg
Dibenz(a,h)anthracene	53-70-3	0.33	0.33	3.7	1000	mg/kg
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	1.4	27	8.2	mg/kg
Naphthalene	91-20-3	12	100	500	12	mg/kg
Phenanthrene	85-01-8	1.1	4.9	47	1000	mg/kg
PFAS						
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	0.88	44	440	0.88	mg/kg
PCBs						
Aroclor 1260	11096-82-5	0.1	1	1	3.2	mg/kg
PCBs, Total	1336-36-3	0.1	1	1	3.2	mg/kg
PESTICIDES						
4,4'-DDD	72-54-8	0.0033	5	26	14	mg/kg
4,4'-DDE	72-55-9	0.0033	3.4	17	14	mg/kg
4,4'-DDT	50-29-3	0.0033	3.4	27	136	mg/kg
Dieldrin	60-57-1	0.005	0.076	0.44	0.1	mg/kg
TOTAL METALS						
Arsenic	7440-38-2	13	16	16	16	mg/kg
Barium	7440-39-3	410	410	410	820	mg/kg
Copper	7440-50-8	50	270	270	1720	mg/kg
Lead	7439-92-1	63	400	1000	450	mg/kg
Manganese	7439-97-6	1600	2000	10000	2000	mg/kg
Mercury	7439-97-6	0.18	0.3	1.1	0.73	mg/kg
Nickel	7440-02-0	30	310	310	130	mg/kg
Zinc	7440-66-6	109	6600	10000	2480	mg/kg

Notes:

1. Not intended for construction.
2. Sample locations before 2025 were collected by WOODARD & CURRAN. Locations and laboratory results were provided by Capelli organization via pdf on June 27, 2025.
3. Only samples with one or more exceedances are depicted.
4. NYSDEC CUSCOs: New York NYCRR Part 375 Commercial Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 31, 2025.
5. NYSDEC RRUSCOs: New York NYCRR Part 375 Restricted-Residential Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 31, 2025.
6. NYSDEC UUSCOs: New York NYCRR Part 375 New York Unrestricted use Criteria Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 31, 2025.
7. NYSDEC PGWSCOs: New York NYCRR Part 375 Groundwater Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 31, 2025
8. E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
9. I - The lower value for the two columns has been reported due to obvious interference.
10. J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.
11. k - Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.
12. P - The RPD between the results for the two columns exceeds the method-specified criteria.
13. U - Not detected at the reported detection limit for the sample.
14. All sample locations are approximate.

LEGEND:

- SITE BOUNDARY
- SB-37/TW-5 - SESI SOIL BORING & TEMPORARY WELL LOCATION
- WC-SB-01 - WOODARD & CURRAN SOIL BORING LOCATION
- SB-12 - SESI SOIL BORING LOCATION

Scale: 1"= 40'

0 20 40 80 120 160

NYS Education Law
Unauthorized alterations or additions to this plan are a violation of section 7209 (2) of the New York State Education Law. Copies of this map not having the seal of the engineer shall not be valid.

© SESI CONSULTING ENGINEERS 2026
This drawing and all information contained here on is proprietary information of SESI CONSULTING ENGINEERS and may not be copied or reproduced, either in whole or in part, by any method, without written permission of SESI CONSULTING ENGINEERS

N:\ACAD\14228\CAD\ENVIRONMENTAL\NEW DATA\14228WG1.DWG 05/20/26 09:23:17AM - qpls - LAYOUT:EXPLORATION_SOIL (2x3)

KEY MAP

rev	date	description

SESI CONSULTING ENGINEERS
GEOTECHNICAL | ENVIRONMENTAL | SITE CIVIL
959 ROUTE 46E. 3RD FLOOR, PARSIPPANY, NJ 07054 PH: 973.808.9050

project:
EAST POST ROAD GARAGE SITE
40 EAST POST ROAD
WHITE PLAINS, NEW YORK 10601

title:
SUMMARY OF SOIL SAMPLING RESULTS

dwg by: AW
chk by: AS
scale: AS NOTED
date: 05/19/2026

job no. 14228
drawing no. 4.1
1 of 1

WC-MW-05 3/3/2022	
VOCs	
Benzene	260
Toluene	14 J
Ethylbenzene	3900 E
p/m-Xylene	6200
n-Butylbenzene	73
sec-Butylbenzene	40 J
Isopropylbenzene	220
p-Isopropyltoluene	17 J
Naphthalene	1000
n-Propylbenzene	660
1,3,5-Trimethylbenzene	870
1,2,4-Trimethylbenzene	4000 E
1,2,4,5-Tetramethylbenzene	230
SVOCs-SIM	
Naphthalene	480 E
Benzo(a)anthracene	0.24 J
Benzo(a)pyrene	0.18 J
Benzo(b)fluoranthene	0.22 J
Benzo(k)fluoranthene	0.07 J
Chrysene	0.22 J
Indeno(1,2,3-cd)pyrene	0.11 J

MW-203 3/21/2022	
VOCs	
Ethylbenzene	18
n-Butylbenzene	8.6
sec-Butylbenzene	5.4
Isopropylbenzene	23
Naphthalene	21
n-Propylbenzene	11
1,3,5-Trimethylbenzene	20
1,2,4-Trimethylbenzene	100
1,2,4,5-Tetramethylbenzene	32
SVOCs	
Naphthalene	11

WC-MW-03 3/24/2022	
VOCs	
Benzene	1.4
Ethylbenzene	110
n-Butylbenzene	32
sec-Butylbenzene	14
Isopropylbenzene	37
Naphthalene	150
n-Propylbenzene	110
1,3,5-Trimethylbenzene	5.5
1,2,4-Trimethylbenzene	99
1,2,4,5-Tetramethylbenzene	66
SVOCs-SIM	
Naphthalene	37
Benzo(a)anthracene	0.03 J
Benzo(a)pyrene	0.02 J
Benzo(b)fluoranthene	0.03 J
Benzo(k)fluoranthene	0.01 J
Chrysene	0.02 J
Indeno(1,2,3-cd)pyrene	0.02 J

WC-TW-16 6/22/2022	
SVOCs-SIM	
Bis(2-ethylhexyl)phthalate	5 J
Benzo(a)anthracene	0.98
Benzo(a)pyrene	1.2
Benzo(b)fluoranthene	2.2
Benzo(k)fluoranthene	0.81
Chrysene	1.6
Indeno(1,2,3-cd)pyrene	1.1

MW-201 3/21/2022	
VOCs	
Benzene	20
Ethylbenzene	480
p/m-Xylene	81
n-Butylbenzene	40
sec-Butylbenzene	32
Isopropylbenzene	50
n-Propylbenzene	70 J
1,3,5-Trimethylbenzene	230
1,2,4-Trimethylbenzene	1100
1,2,4,5-Tetramethylbenzene	180
SVOCs	
Naphthalene	130 E

MW-205 (TEMP) 3/24/2022	
SVOCs	
Diethyl phthalate	99
SVOCs-SIM	
Benzo(a)anthracene	0.62 J
Benzo(b)fluoranthene	0.91 J
Chrysene	0.81 J

Sample ID	TW-10
Sample Date	9/9/2025
Lab ID	JB216868-22
Screened Interval	2-12
VOCs	
p/m-Xylene	5.5 J
SVOCs	
Benzo(a)anthracene	0.29 J
Benzo(a)pyrene	0.43 J
Benzo(b)fluoranthene	0.52 J
Chrysene	0.24 J
Indeno(1,2,3-cd)pyrene	0.58 J
Total Metals	
Arsenic, Total	77.9
Barium, Total	4470
Beryllium, Total	22
Chromium, Total	1010
Copper, Total	2480
Iron, Total	717000
Lead, Total	300
Magnesium, Total	409000
Manganese, Total	17000
Nickel, Total	1020
Sodium, Total	458000

Sample ID	TW-10
Sample Date	9/10/2025
Lab ID	JE182788-5
Screened Interval	9-19
Total Metals	
Beryllium, Total	4.2
Chromium, Total	189
Iron, Total	153000
Lead, Total	49.1
Magnesium, Total	83900
Manganese, Total	2430
Nickel, Total	132
Sodium, Total	39600

Sample ID	TW-6
Sample Date	8/14/2025
Lab ID	L2514402-02
Screened Interval	3-13
SVOCs	
Benzo(a)anthracene	0.13
Benzo(a)pyrene	0.22
Benzo(b)fluoranthene	0.32
Benzo(k)fluoranthene	0.09 J
Chrysene	0.12
Indeno(1,2,3-cd)pyrene	0.28
PFAS	
PFOS	0.0197
PFOA	0.0181
Total Metals	
Chromium, Total	92.23
Iron, Total	39700
Lead, Total	66.91
Magnesium, Total	37300
Manganese, Total	7130
Selenium, Total	42
Sodium, Total	137000

WC-TW-23 6/21/2022	
SVOCs-SIM	
Benzo(a)anthracene	0.11 J
Benzo(a)pyrene	0.11
Benzo(b)fluoranthene	0.15
Benzo(k)fluoranthene	0.06 J
Chrysene	0.12
Indeno(1,2,3-cd)pyrene	0.09 J

WC-TW-21 6/22/2022	
SVOCs-SIM	
Benzo(a)anthracene	0.29
Benzo(a)pyrene	0.32
Benzo(b)fluoranthene	0.44
Benzo(k)fluoranthene	0.14
Chrysene	0.31
Indeno(1,2,3-cd)pyrene	0.26

WC-MW-02 4/29/2022	
SVOCs	
Benzo(a)anthracene	0.56 J
Benzo(a)pyrene	0.58 J
Benzo(b)fluoranthene	0.98 J
Benzo(k)fluoranthene	0.32 J
Chrysene	0.56 J
Indeno(1,2,3-cd)pyrene	0.33 J

WC-MW-01 3/23/2022	
SVOCs-SIM	
Benzo(a)anthracene	0.18
Benzo(a)pyrene	0.19 J
Benzo(b)fluoranthene	0.37 J
Benzo(k)fluoranthene	0.07 J
Chrysene	0.17 J
Indeno(1,2,3-cd)pyrene	0.17

Sample ID	TW-17
Sample Date	9/9/2025
Lab ID	JE16900-23
Screened Interval	4-14
SVOCs	
Benzo(a)anthracene	0.71 J
Benzo(a)pyrene	1 J
Benzo(b)fluoranthene	1.1
Benzo(k)fluoranthene	0.39 J
Chrysene	0.78 J
Indeno(1,2,3-cd)pyrene	0.66 J
Total Metals	
Arsenic, Total	26.6
Barium, Total	2060
Beryllium, Total	10.7
Chromium, Total	431
Copper, Total	971
Iron, Total	277000
Lead, Total	118
Magnesium, Total	183000
Manganese, Total	11200
Nickel, Total	326
Sodium, Total	403000

Sample ID	TW-12
Sample Date	9/9/2025
Lab ID	JE16629-11
Screened Interval	1-11
Total Metals	
Iron, Total	6820
Lead, Total	262
Manganese, Total	3020
Sodium, Total	80600

Sample ID	TW-11
Sample Date	9/5/2025
Lab ID	JE16448-13
Screened Interval	10-20
Total Metals	
Barium, Total	1410
Chromium, Total	82.8
Copper, Total	222
Iron, Total	48000
Lead, Total	307
Magnesium, Total	149000
Manganese, Total	4980
Sodium, Total	78900

WC-MW-04 3/24/2022	
VOCs	
Acetone	100
Ethylbenzene	260 E
n-Butylbenzene	26
sec-Butylbenzene	10
Isopropylbenzene	25
Naphthalene	80
1,3,5-Trimethylbenzene	8.2
1,2,4,5-Tetramethylbenzene	66
SVOCs-SIM	
Naphthalene	14 J
Benzo(a)anthracene	0.04 J
Benzo(a)pyrene	0.04 J
Benzo(b)fluoranthene	0.03 J
Benzo(k)fluoranthene	0.01 J
Chrysene	0.03 J
Indeno(1,2,3-cd)pyrene	0.02 J
Hexachlorobenzene	0.04 J

WC-TW-24 6/22/2022	
SVOCs-SIM	
Benzo(a)anthracene	0.09 J
Benzo(a)pyrene	0.09 J
Benzo(b)fluoranthene	0.15 J
Benzo(k)fluoranthene	0.04 J
Chrysene	0.14
Indeno(1,2,3-cd)pyrene	0.07 J

WC-TW-27 6/21/2022	
VOCs	
Benzene	1.7
SVOCs-SIM	
Benzo(a)anthracene	0.05 J
Benzo(a)pyrene	0.04 J
Benzo(b)fluoranthene	0.06 J
Benzo(k)fluoranthene	0.02 J
Chrysene	0.06 J
Indeno(1,2,3-cd)pyrene	0.03 J

Sample ID	TW-3
Sample Date	7/29/2025
Lab ID	L2547611-02
Screened Interval	3-13
VOCs	
Benzene	1.3
PFAS	
PFOS	0.0216 J
PFOA	0.0232 J
Total Metals	
Arsenic, Total	66.58
Barium, Total	1131D
Beryllium, Total	19.74
Cadmium, Total	11.41
Chromium, Total	748.1
Copper, Total	10300
Iron, Total	666000
Lead, Total	1145
Magnesium, Total	472000
Manganese, Total	24620
Nickel, Total	1469
Selenium, Total	146D
Sodium, Total	1440000
Zinc, Total	5833

Sample ID	TW-1
Sample Date	7/10/2025
Lab ID	L2543350-05
Screened Interval	5-15
VOCs	
1,2,4,5-Tetramethylbenzene	110
Isopropylbenzene	45
n-Butylbenzene	22
n-Propylbenzene	170
sec-Butylbenzene	23
PFAS	
PFOS	0.0192
PFOA	0.0673
Total Metals	
Iron, Total	2630
Lead, Total	316.1
Manganese, Total	1780
Sodium, Total	670000

Sample ID	TW-4
Sample Date	8/1/2025
Lab ID	L2540398-01
Screened Interval	4-14
SVOCs	
Benzo(a)anthracene	0.54 J
PFAS	
PFOS	0.0204
PFOA	0.0146
Total Metals	
Iron, Total	41900
Lead, Total	84.43
Magnesium, Total	59500
Manganese, Total	2058
Sodium, Total	108000

WC-MW-03 4/29/2022	
VOCs	
Toluene	760
Ethylbenzene	2600
p/m-Xylene	6700
o-Xylene	2600
n-Butylbenzene	220
sec-Butylbenzene	44 J
Isopropylbenzene	200 J
p-Isopropyltoluene	37 J
Naphthalene	910
n-Propylbenzene	660
1,3,5-Trimethylbenzene	1200 E
1,2,4-Trimethylbenzene	190
SVOCs	
Naphthalene	2 J
SVOC-SIM	
Naphthalene	200
Benzo(a)anthracene	0.59
Benzo(a)pyrene	0.58
Benzo(b)fluoranthene	0.89
Benzo(k)fluoranthene	0.29
Chrysene	0.56
Indeno(1,2,3-cd)pyrene	0.54

WC-MW-02 4/29/2022	
SVOCs	
Benzo(a)anthracene	0.56 J
Benzo(a)pyrene	0.58 J
Benzo(b)fluoranthene	0.98 J
Benzo(k)fluoranthene	0.32 J
Chrysene	0.56 J
Indeno(1,2,3-cd)pyrene	0.33 J

Sample ID	TW-15
Sample Date	9/9/2025
Lab ID	JE16899-21
Screened Interval	5-15
VOCs	
Acetone	128
Ethylbenzene	1950
Isopropylbenzene	375
o-Xylene	395
p/m-Xylene	3610
SVOCs	
Benzo(a)anthracene	0.41 J
Benzo(a)pyrene	0.28 J
Benzo(b)fluoranthene	0.46 J
Chrysene	0.3 J
Naphthalene	152
Pesticides	
Aldrin	0.0085 J
Total Metals	
Arsenic, Total	37
Barium, Total	1750
Beryllium, Total	6.3
Chromium, Total	238
Copper, Total	636
Iron, Total	215000
Lead, Total	374
Magnesium, Total	84400
Manganese, Total	6500
Nickel, Total	346
Sodium, Total	167000

Sample ID	TW-13
Sample Date	9/9/2025
Lab ID	JE16629-11
Screened Interval	5-15
VOCs	
Acetone	116
2-Butanone (MEK)	62.7
Ethylbenzene	364
Isopropylbenzene	58.3
sec-Butylbenzene	200 JN
n-Propylbenzene	192
p/m-Xylene	1240
SVOCs	
Naphthalene	199
Total Metals	
Arsenic, Total	41
Barium, Total	1760
Beryllium, Total	3.5
Chromium, Total	176
Copper, Total	870
Iron, Total	446000
Lead, Total	149
Magnesium, Total	147000
Manganese, Total	5110
Nickel, Total	295
Sodium, Total	122000

WC-MW-05 5/3/2022	
VOCs	
Benzene	220
Ethylbenzene	4500
p/m-Xylene	8900
o-Xylene	1000
n-Butylbenzene	93 J
sec-Butylbenzene	51 J
Isopropylbenzene	300
Naphthalene	930
n-Propylbenzene	1100
1,3,5-Trimethylbenzene	5900
1,2,4-Trimethylbenzene	245
1,2,4,5-Tetramethylbenzene	240
SVOC-SIM	
Naphthalene	1700
Benzo(a)anthracene	6.5
Benzo(a)pyrene	4.8
Benzo(b)fluoranthene	8.4
Benzo(k)fluoranthene	3
Chrysene	5.8
Indeno(1,2,3-cd)pyrene	3

Sample ID	TW-14
Sample Date	9/9/2025
Lab ID	JE16899-20
Screened Interval	5-15
SVOCs	
Benzo(a)anthracene	0.8 J
Benzo(a)pyrene	0.76 J
Benzo(b)fluoranthene	1 J
Benzo(k)fluoranthene	0.36 J
Chrysene	0.71 J
Indeno(1,2,3-cd)pyrene	0.65 J
Total Metals	
Arsenic, Total	211
Barium, Total	5460
Beryllium, Total	28.7
Chromium, Total	1260
Copper, Total	1850
Iron, Total	1200000
Lead, Total	2430
Magnesium, Total	853000
Manganese, Total	34600
Mercury, Total	8.3
Nickel, Total	1230
Sodium, Total	1290000
Zinc, Total	2600

WC-MW-04 5/3/2022	
VOCs	
Benzene	80
Ethylbenzene	2900
p/m-Xylene	3000
o-Xylene	196
n-Butylbenzene	93 J
sec-Butylbenzene	100 J
Isopropylbenzene	270
Naphthalene	1100
n-Propylbenzene	770
1,3,5-Trimethylbenzene	1000
1,2,4-Trimethylbenzene	4500
1,2,4,5-Tetramethylbenzene	240
SVOCs-SIM	
Naphthalene	2200
Benzo(a)anthracene	2
Benzo(a)pyrene	1.2
Benzo(b)fluoranthene	1.7
Benzo(k)fluoranthene	0.55
Chrysene	1.5
Indeno(1,2,3-cd)pyrene	0.86

Sample ID	TW-9
Sample Date	9/9/2025
Lab ID	JE16468-13
Screened Interval	10-20
Total Metals	
Barium, Total	1360
Chromium, Total	188
Copper, Total	208
Iron, Total	139000
Lead, Total	167
Magnesium, Total	139000
Manganese, Total	3420
Nickel, Total	150
Sodium, Total	28000

Sample ID	TW-10
Sample Date	9/9/2025
Lab ID	JE16899-14
Screened Interval	6-16
VOCs	
Acetone	52.4
Ethylbenzene	9.1
Isopropylbenzene	6.9
Naphthalene	8.2 JN
o-Xylene	7.2
Total Metals	
Chromium, Total	186
Copper, Total	222
Iron, Total	72000
Lead, Total	57.6
Magnesium, Total	113000
Manganese, Total	2420
Sodium, Total	40900

Sample ID	TW-2
Sample Date	7/10/2025
Lab ID	L2543350-06
Screened Interval	7-17
VOCs	
1,2,4,5-Tetramethylbenzene	33
1,2,4-Trimethylbenzene	140
1,3,5-Trimethylbenzene	5.8
Ethylbenzene	71
Isopropylbenzene	18
n-Butylbenzene	7.9
n-Propylbenzene	44
Naphthalene	19
o-Xylene	16
p/m-Xylene	73
sec-Butylbenzene	5.3
PFAS	
PFOS	0.0121
PFOA	0.0158
Total Metals	
Iron, Total	5150
Lead, Total	243.6
Manganese, Total	1736
Sodium, Total	585000

Sample ID	TW-5
Sample Date	7/31/2025
Lab ID	L2548309-10
Screened Interval	8-18
SVOCs	
Benzo(a)anthracene	0.06 J
PFAS	
PFOA	0.14 J
Total Metals	
Arsenic, Total	44.93
Barium, Total	11190
Beryllium, Total	14.76
Cadmium, Total	7.21
Chromium, Total	868.4
Copper, Total	2183
Iron, Total	450000
Lead, Total	4517
Magnesium, Total	84200
Manganese, Total	23890
Mercury, Total	1.25
Nickel, Total	930.8
Selenium, Total	69.6
Sodium, Total	170000
Thallium, Total	5.11
Zinc, Total	3358

Sample ID	TW-14
Sample Date	8/1/2025
Lab ID	L2548398-07
Screened Interval	5-15
VOCs	
1,2,4,5-Tetramethylbenzene	7.5
1,2,4-Trimethylbenzene	13
Naphthalene	12
sec-Butylbenzene	5.8
PFAS	
PFOS	0.0892
PFOA	0.0201
Total Metals	
Arsenic, Total	39.46
Barium, Total	8725
Beryllium, Total	17.71
Cadmium, Total	6.9
Chromium, Total	843
Copper, Total	1811
Iron, Total	413000
Lead, Total	734.6
Magnesium, Total	590000
Manganese, Total	33320
Nickel, Total	898.7
Selenium, Total	40
Sodium, Total	98200
Thallium, Total	5.08
Zinc, Total	2018

WATER STANDARDS TABLE

ANALYTE	CAS	NY-AWQS (ug/l)
VOCs		
Benzene	91-43-2	1
1,2,4,5-Tetramethylbenzene	95-93-2	5
1,2,4-Trimethylbenzene	95-63-6	5
1,3,5-Trimethylbenzene	108-67-8	5
Ethylbenzene	100-41-4	5
Isopropylbenzene	98-82-8	5
Naphthalene	91-20-3	10
n-Butylbenzene	104-51-8	5
n-Propylbenzene	103-65-1	5
o-Xylene	95-47-6	5
p/m-Xylene	179601-23-1	5
sec-Butylbenzene	135-98-8	5
PFAS		
PFOS	1763-23-1	0.0027
PFOA	335-67-1	0.0067
PCBs		
Aroclor 1260	11096-82-5	0.09
SVOCs		
Bis(2-ethylhexyl)phthalate	117-81-7	5
Benzo(a)anthracene	56-55-3	0.002
Benzo(a)pyrene	50-32-8	0
Benzo(b)fluoranthene	205-99-2	0.002
Benzo(k)fluoranthene	207-08-9	0.002
Chrysene	218-01-9	0.002
Indeno(1,2,3-cd)pyrene	193-39-5	0.002
TOTAL METALS		
Aluminum, Total	7429-90-5	-
Arsenic, Total	7440-38-2	25
Barium, Total	7440-39-3	1000
Beryllium, Total	7440-41-7	3
Cadmium, Total	7440-43-9	5
Chromium, Total	7440-47-3	50
Copper, Total	7440-50-8	200
Iron, Total	7439-89-6	300
Lead, Total	7439-92-1	25
Magnesium, Total	7439-95-4	35000
Manganese, Total	7439-96-5	300
Mercury, Total	7439-97-6	0.7
Nickel, Total	7440-02-0	100
Selenium, Total	7782-49-2	10
Sodium, Total	7440-23-5	20000
Thallium, Total	7440-28-0	0.5
Zinc, Total	7440-66-6	2000

REFERENCE:

1. EXISTING SITE INFORMATION PROVIDED BY CONTROL POINT ASSOCIATES, INC., "EXHIBIT SKETCH", DATED JUNE 7, 2022.
2. SAMPLE LOCATIONS BEFORE 2025 WERE COLLECTED BY WOODARD & CURRAN.LOCATIONS AND LABORATORY RESULTS WERE PROVIDED BY CAPELLI ORGANIZATION VIA PDF ON JUNE 27, 2025.

NOTES:

1. NY-AWQSGV: NEW YORK TOGS 111 AMBIENT WATER QUALITY STANDARDS & GUIDANCE VALUES CRITERIA PER STANDARDS & GUIDANCE VALUES INCLUDING ALL ADDENDA THROUGH FEBRUARY 2023.
2. JN - PRESUMPTIVE EVIDENCE OF COMPOUND. THIS REPRESENTS AN ESTIMATED CONCENTRATION FOR TENTATIVELY IDENTIFIED COMPOUNDS (TICS), WHERE THE IDENTIFICATION IS BASED ON A MASS SPECTRAL LIBRARY SEARCH.
3. J - ESTIMATED VALUE. THE TARGET ANALYTE CONCENTRATION IS BELOW THE QUANTITATION LIMIT (RL), BUT ABOVE THE METHOD DETECTION LIMIT
(MDL) OR ESTIMATED DETECTION LIMIT (EDL) FOR SPME-RELATED ANALYSES. THIS REPRESENTS AN ESTIMATED CONCENTRATION FOR TENTATIVELY IDENTIFIED COMPOUNDS (TICS). FOR CALCULATED PARAMETERS, THIS REPRESENTS THAT ONE OR MORE VALUES USED IN THE CALCULATION WERE ESTIMATED
4. SAMPLE LOCATIONS BEFORE 2025 WERE COLLECTED BY WOODWARD & CURRAN. LOCATIONS AND LABORATORY RESULTS WERE PROVIDED BY CAPELLI ORGANIZATION VIA PDF ON JUNE 27, 2025.
5. SESI INSTALLED ADDITIONAL MONITORING WELLS IN JULY 2025 BUT WERE NOT SAMPLED AND THIS ARE NOT DEPICTED.
6. SEVERAL SAMPLE/WELL LOCATIONS ARE NOT DEPICTED AS THEY DID NOT EXHIBIT ANY GROUNDWATER EXCEEDANCES OR ARE LOCATED OFF-SITE.
7. NOT INTENTED FOR CONSTRUCTION.
8. SCREENED INTERVALS ARE MEASURED IN FEET BELOW GROUND SURFACE (FEET BGS).

LEGEND:

- SITE BOUNDARY
- SB-37/TW-5 - SESI SOIL BORING & TEMPORARY WELL LOCATION
- WC-MW-04 - WOODARD & CURRAN WELL LOCATION
- MW-23 - MONITORING WELL LOCATION
- APPROXIMATE INFERRED GROUNDWATER FLOW DIRECTION

Scale: 1"= 40'

0 20 40 80 120 160

NYS Education Law
Unauthorized alterations or additions to this plan are a violation of section 7209 (2) of the New York State Education Law. Copies of this map not having the seal of the engineer shall not be valid.

© SESI CONSULTING ENGINEERS 2026
This drawing and all information contained here on is proprietary information of SESI CONSULTING ENGINEERS and may not be copied or reproduced, either in whole or in part, by any method, without written permission of SESI CONSULTING ENGINEERS

KEY MAP

rev	date	description

SESI CONSULTING ENGINEERS
GEOTECHNICAL | ENVIRONMENTAL | SITE CIVIL
999 ROUTE 46E, 3RD FLOOR, PARSIPPANY, NJ 07054 PH: 973.808.9050

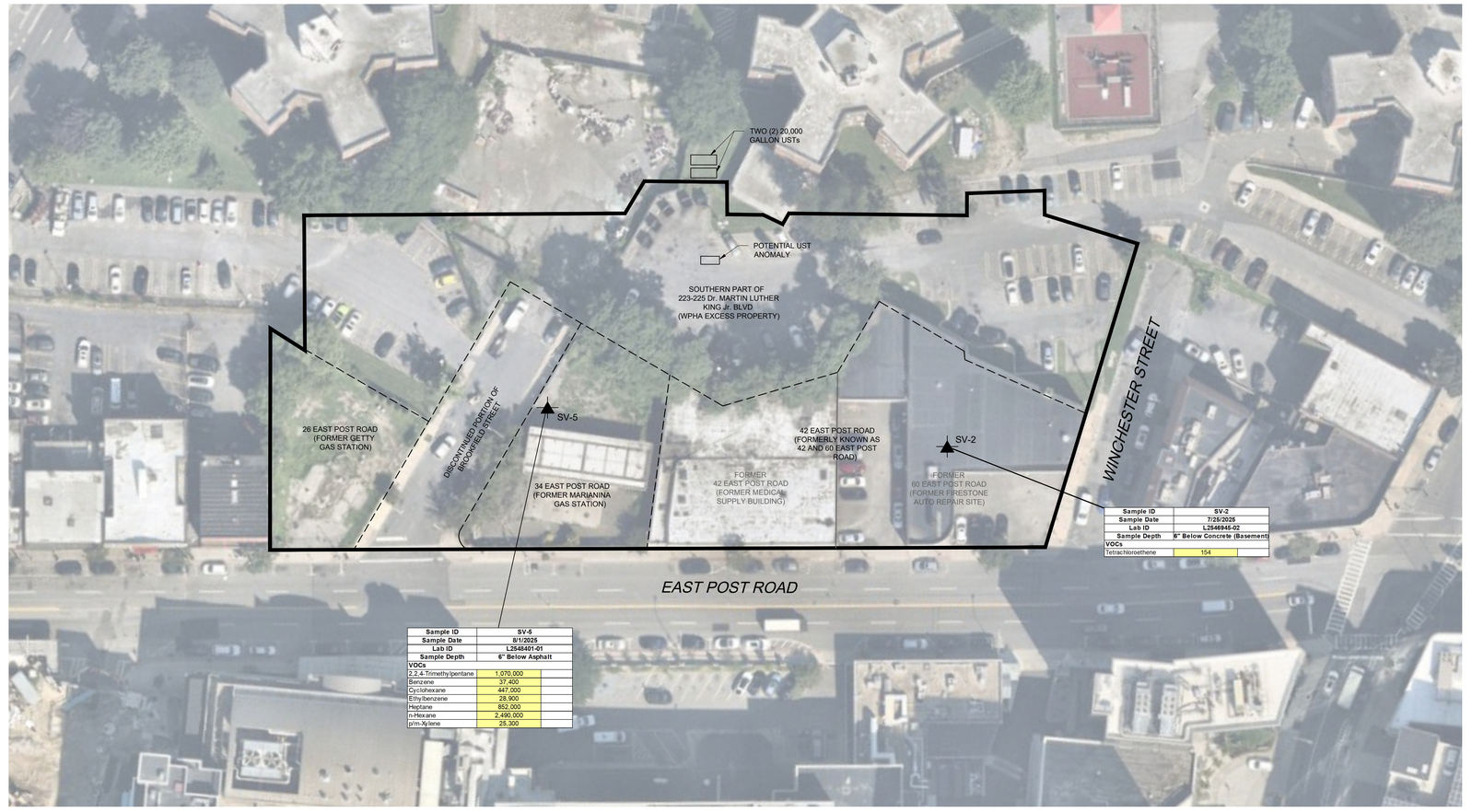
project:
EAST POST ROAD GARAGE SITE
40 EAST POST ROAD
WHITE PLAINS, NEW YORK 10601

title:
GROUNDWATER EXCEEDANCE MAP

dwg by: AW
chk by: BC
scale: AS NOTED
date: 05/19/2026

job no. 14228
drawing no. 4.2
1 of 1

N:\CAD\14228\GIS\ENVIRONMENTAL\NEW DATA\14228.DWG EXPLORATION → ALL DWG 05/20/26 10:06:58AM by: LAYOUT EXPLORATION_QW (EXCEEDANCE)



SOIL VAPOR STANDARDS TABLE

ANALYTE	CAS	NY-SSC-A-F	
VOCs			
2,2,4-Trimethylpentane	540-84-1	60	ug/m^3
Benzene	71-43-2	60	ug/m^3
Cyclohexane	110-82-7	60	ug/m^3
Ethylbenzene	100-41-4	60	ug/m^3
Heptane	142-82-5	200	ug/m^3
n-Hexane	110-54-3	200	ug/m^3
p/m-Xylene	179601-23-1	200	ug/m^3
Tetrachloroethene	127-18-4	100	ug/m^3

LEGEND:
1. NY-SSC-A-F: New York DOH Matrices A-F Sub-slab Vapor Concentrations Criteria per Guidance for Evaluating Soil Vapor Intrusion, October 2006, and updated February,

LEGEND:

- SITE BOUNDARY
- SV-2 - SOIL VAPOR NUMBER & APPROX. LOCATION

Scale: 1"= 40'

0 20 40 80 120 160

NOTE:
NOT INTENDED FOR CONSTRUCTION.

REFERENCE:
1. EXISTING SITE INFORMATION PROVIDED BY CONTROL POINT ASSOCIATES, INC., "EXHIBIT SKETCH", DATED JUNE 7, 2022.
2. SAMPLE LOCATIONS PROVIDED BY CAPELLI ORGANIZATION, VIA PDF ON JUNE 27, 2025.

NYS Education Law
Unauthorized alterations or additions to this plan are a violation of section 7209 (2) of the New York State Education Law. Copies of this map not having the seal of the engineer shall not be valid.

© SESI CONSULTING ENGINEERS 2026
This drawing and all information contained here on is proprietary information of SESI CONSULTING ENGINEERS and may not be copied or reproduced, either in whole or in part, by any method, without written permission of SESI CONSULTING ENGINEERS

N:\14XXX\14228\CAD\ENVIRONMENTAL\14228-SMC-SUMMARY SV RESULTS.DWG 05/19/26 04:56:59PM, dgn, LAYOUT1 SV DATA (2)

KEY MAP

rev	date	description

SESI CONSULTING ENGINEERS
GEOTECHNICAL | ENVIRONMENTAL | SITE CIVIL
959 ROUTE 46E, 3RD FLOOR, PARSIPPANY, NJ 07054 PH: 973.808.9050

project:
EAST POST ROAD GARAGE SITE
40 EAST POST ROAD
WHITE PLAINS, NEW YORK 10601

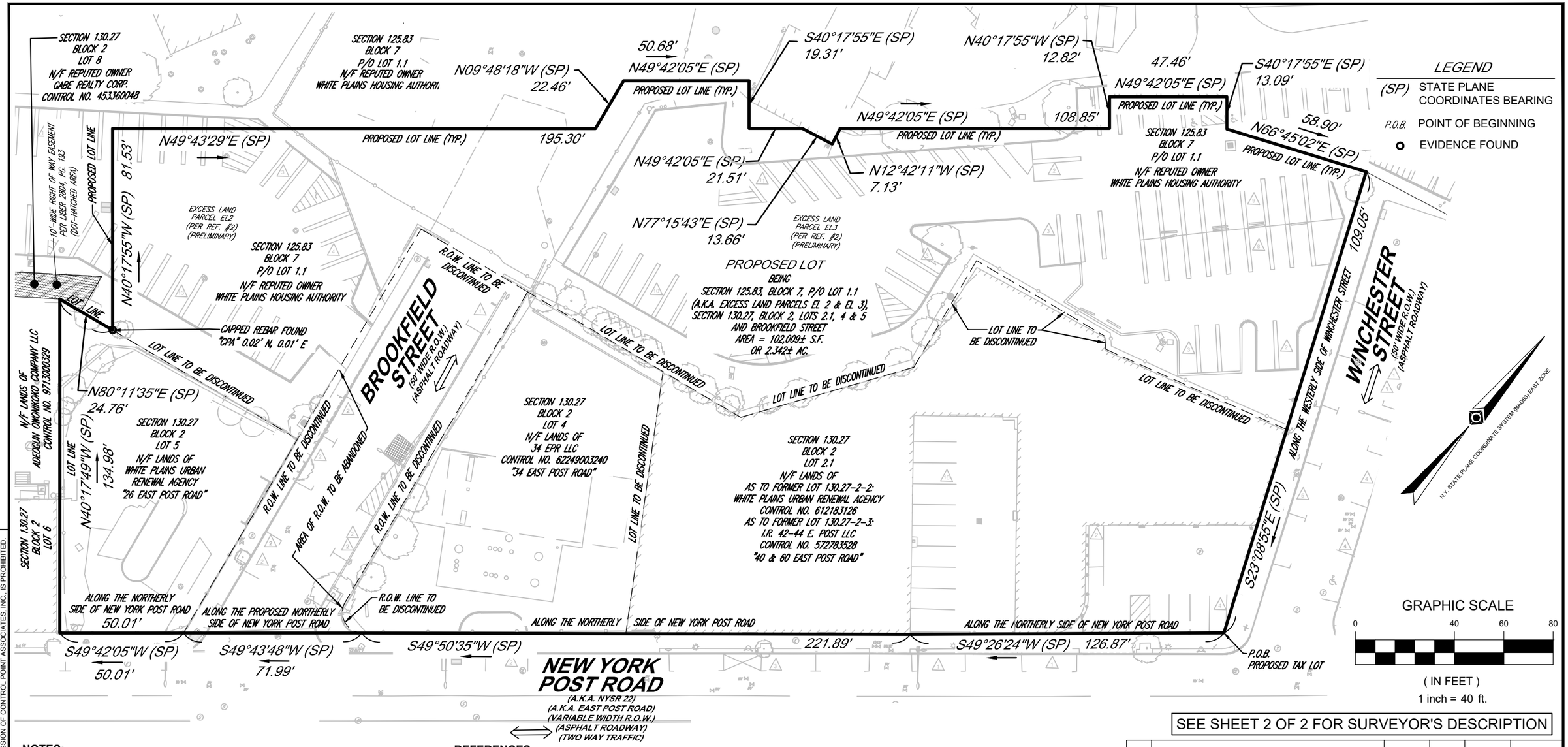
title:
SOIL VAPOR EXCEEDANCE MAP

dwg by: AW
chk by: BC
scale: AS NOTED
date: 05/19/2026

job no. 14228
drawing no. 4.3
1 of 1

Appendix B:

Metes and Bounds Survey Map



SEE SHEET 2 OF 2 FOR SURVEYOR'S DESCRIPTION

CONTROL POINT ASSOCIATES, INC., ALL RIGHTS RESERVED.
THE CONTENTS OF THIS DOCUMENT, OR PORTIONS THEREOF, IS FOR THE EXCLUSIVE USE OF THE ORIGINAL PROJECT OR THE PURPOSE ORIGINALLY INTENDED, WITHOUT THE WRITTEN PERMISSION OF CONTROL POINT ASSOCIATES, INC., IS PROHIBITED.

NOTES:

1. PROPERTY KNOWN AS SECTION 125.83, BLOCK 7, P/O LOT 1.1, SECTION 130.27, BLOCK 2, LOTS 2.1, 4 & 5 AND BROOKFIELD STREET, AS SHOWN ON THE DIGITAL TAX MAP OF THE CITY OF WHITE PLAINS, WESTCHESTER COUNTY, STATE OF NEW YORK.

2. AREA OF SECTION 130.27, BLOCK 2, LOT 2.1 = 27,209± S.F. OR 0.625± AC.
   AREA OF SECTION 130.27, BLOCK 2, LOT 4 = 11,433± S.F. OR 0.262± AC.
   AREA OF SECTION 130.27, BLOCK 2, LOT 5 = 8,449± S.F. OR 0.194± AC.
   AREA OF EXCESS LAND PARCEL (EL2 & EL 3) = 46,133± S.F. OR 1.059± AC.
   AREA OF BROOKFIELD STREET TO BE ABANDONED = 8,785± S.F. OR 0.202± AC.
   AREA OF PROPOSED LOT = 102,009± S.F. OR 2.342± AC.

3. THE PURPOSE OF THIS SURVEY IS TO SHOW THE PROPOSED TAX LOT COMPRISED OF TAX LOTS 130.27-2-2.1, 130.27-2-4, 130.27-2-5 ,PRELIMINARY OVERALL EXCESS LAND PARCEL (EL2 & EL 3) AND BROOKFIELD STREET, PER CLIENT REQUEST.

4. THE IMPROVEMENTS SHOWN HEREON AS SHADED BACKGROUND INFORMATION, ARE BASED ON REF. #2 AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.

REFERENCES:

1. THE NEW YORK DIGITAL TAX MAP OF THE CITY OF WHITE PLAINS, WESTCHESTER COUNTY, STATE OF NEW YORK.

2. MAP ENTITLED "BOUNDARY, TOPOGRAPHIC & UTILITY SURVEY P/O SECTION 125.83, BLOCK 7, LOT 1.1, SECTION 130.27, BLOCK 2, LOT 2, SECTION 130.27, BLOCK 2, LOT 3, SECTION 130.27, BLOCK 2, LOT 4 AND SECTION 130.27, BLOCK 2, LOT 5 26-28 EAST POST ROAD, 34 EAST POST ROAD, 42 EAST POST ROAD, 60 EAST POST ROAD CITY OF WHITE PLAINS, COUNTY OF WESTCHESTER, STATE OF NEW YORK", PREPARED BY CONTROL POINT ASSOCIATES INC PC, DATED 09-03-2025, AND REVISED 09-12-2025 (REVISION 1).

UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW.

ONLY COPIES FROM THE ORIGINAL OF THIS SURVEY MARKED WITH AN ORIGINAL OF THE LAND SURVEYOR'S EMBOSSED OR INKED SEAL SHALL BE CONSIDERED TO BE VALID TRUE COPIES.

THIS SURVEY HAS BEEN PERFORMED IN THE FIELD UNDER MY SUPERVISION, AND TO THE BEST OF MY KNOWLEDGE, BELIEF, AND INFORMATION, THIS SURVEY HAS BEEN PERFORMED IN ACCORDANCE WITH CURRENTLY ACCEPTED ACCURACY STANDARDS.
NOT A VALID ORIGINAL DOCUMENT UNLESS EMBOSSED WITH RAISED IMPRESSION SEAL

PROGRESS PRINT
Nov 13, 2025 - 1:43pm

11-12-2025
DATE

ANDREW J. FLANAGAN
NEW YORK PROFESSIONAL LAND SURVEYOR #050417

No.	DESCRIPTION OF REVISION	FIELD CREW	DRAWN:	APPROVED:	DATE
1	ADDED PROPOSED TAX LOT		M.A.P.	A.J.F.	11-12-2025

FIELD DATE: 08-13-2025
FIELD BOOK NO.: NYC 25-06
FIELD BOOK PG.: 101
FIELD CREW: DG
DRAWN: M.A.P.
REVIEWED: G.J.S.

TAX LOT SURVEY
SECTION 125.83, BLOCK 7, P/O LOT 1.1,
SECTION 130.27, BLOCK 2, LOTS 2.1, 4 & 5
& BROOKFIELD STREET
26, 34, 42 & 60 EAST POST ROAD & DR. MARTIN L. KING, JR. BLVD.
CITY OF WHITE PLAINS, WESTCHESTER COUNTY
STATE OF NEW YORK

PREPARED BY:
CONTROL POINT ASSOCIATES, INC.
9 TIMES SQUARE, 200 WEST 41ST STREET, SUITE 1203
NEW YORK, NY 10036
646.780.0411 - 908.668.9595 FAX
WWW.CPASURVEY.COM
WARREN, NJ 908.668.0099
ALBANY, NY 518.217.5010
CHALFONT, PA 215.712.9800
MT. LAUREL, NJ 609.857.2099
LONG ISLAND, NY 631.580.2645
SOUTHBOROUGH, MA 508.948.3000
ROCHESTER, NY 585.250.1764

APPROVED: A.J.F. | DATE: 11-12-2025 | SCALE: 1"=40' | FILE NO.: 01-190014-11 TAX LOT SURVEY | SHEET: 1 OF 2

SURVEYOR'S DESCRIPTION

LOT 1.1, BLOCK 7, SECTION 125.83,
LOTS 2.1, 4 AND 5, BLOCK 2, SECTION 130.27
AND BROOKFIELD STREET
IN THE CITY OF WHITE PLAINS,
WESTCHESTER COUNTY, NEW YORK

ALL THAT CERTAIN PIECE OR PARCEL OF LAND, SITUATED, LYING AND BEING IN THE CITY OF WHITE PLAINS, COUNTY OF WESTCHESTER AND STATE OF NEW YORK, BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE NORTHERLY RIGHT OF WAY LINE OF NEW YORK POST ROAD (A.K.A. EAST POST ROAD, A.K.A. NEW YORK STATE ROAD 22, VARIABLE WIDTH RIGHT OF WAY) AND THE WESTERLY RIGHT OF WAY LINE OF WINCHESTER STREET (50-FEET WIDE RIGHT OF WAY);

THENCE WESTERLY, ALONG THE NORTHERLY RIGHT OF WAY LINE OF SAID NEW YORK POST ROAD, THE FOLLOWING FOUR (4) COURSES AND DISTANCES:

1. ALONG THE SOUTHERLY LINE OF LOT 2, BLOCK 2, SECTION 130.27 (LANDS NOW OR FORMERLY OF WHITE PLAINS URBAN RENEWAL AGENCY), SOUTH 49 DEGREES 26 MINUTES 24 SECONDS WEST, A DISTANCE OF 126.87 FEET TO A POINT ON THE EASTERLY LINE OF LOT 3, BLOCK 2, SECTION 130.27 (LANDS NOW OR FORMERLY OF I.R. 42-44 E. POST LLC);

2. THENCE, ALONG THE SOUTHERLY LINE OF SAID LOT 3, BLOCK 2, SECTION 130.27, IN PART, AND ALONG THE SOUTHERLY LINE OF LOT 4, BLOCK 2, SECTION 130.27 (LANDS NOW OR FORMERLY OF 34 EPR LLC) , IN PART, SOUTH 49 DEGREES 50 MINUTES 35 SECONDS WEST, A DISTANCE OF 221.89 FEET THE SOUTHEASTERLY END OF A CURVE TO THE RIGHT, AT THE INTERSECTION WITH THE EASTERLY RIGHT OF WAY LINE OF BROOKFIELD STREET (50-FEET WIDE RIGHT OF WAY);

3. THENCE, ALONG THE SOUTHERLY LIMIT OF SAID BROOKFIELD STREET, SOUTH 49 DEGREES 43 MINUTES 48 SECONDS WEST, A DISTANCE OF 71.99 FEET TO THE INTERSECTION WITH THE WESTERLY RIGHT OF WAY LINE OF SAID BROOKFIELD STREET, SAID POINT BEING THE SOUTHEASTERLY CORNER OF LOT 5, BLOCK 2, SECTION 130.27 (LANDS NOW OR FORMERLY OF WHITE PLAINS URBAN RENEWAL AGENCY);

4. THENCE, ALONG THE SOUTHERLY LINE OF SAID LOT 5, BLOCK 2, SECTION 130.27, SOUTH 49 DEGREES 42 MINUTES 05 SECONDS WEST, A DISTANCE OF 50.01 FEET TO A POINT ON THE DIVISION LINE BETWEEN SAID LOT 5, ON THE EAST, AND LOT 6, BLOCK 2, SECTION 130.27 (LANDS NOW OR FORMERLY OF ADEOGUN OWONIKOKO COMPANY LLC), ON THE WEST;

THENCE NORTHWESTERLY, ALONG SAID DIVISION LINE, NORTH 40 DEGREES 17 MINUTES 49 SECONDS WEST, A DISTANCE OF 134.98 FEET TO A POINT ON THE DIVISION LINE BETWEEN SAID LOT 5, BLOCK 2, SECTION 130.27, ON THE SOUTH, AND LOT 8, BLOCK 2, SECTION 130.27 (LANDS NOW OR FORMERLY OF GABE REALTY CORP.), ON THE NORTH;

THENCE NORTHEASTERLY, ALONG THE DIVISION LINE BETWEEN SAID LOT 5, BLOCK 2, SECTION 130.27, ON THE SOUTH , AND, ON THE NORTH, SAID LOT 8, BLOCK 2, SECTION 130.27, IN PART, AND LOT 1.1, BLOCK 7, SECTION 125.83 (LANDS NOW OR FORMERLY OF WHITE PLAINS HOUSING AUTHORITY), IN PART, NORTH 80 DEGREES 11 MINUTES 35 SECONDS EAST, A DISTANCE OF 24.76 FEET TO A POINT DISTANT 0.02 FEET SOUTH AND 0.01 FEET WEST OF A REBAR CAPPED LABELED "CPA";

THENCE, THROUGH SAID LOT 1.1, BLOCK 7, SECTION 125.83 THE FOLLOWING THIRTEEN (13) COURSES AND DISTANCES:

1. NORTH 40 DEGREES 17 MINUTES 55 SECONDS WEST, A DISTANCE OF 81.53 FEET O A POINT;
2. THENCE NORTH 49 DEGREES 43 MINUTES 29 SECONDS EAST, A DISTANCE OF 195.30 FEET TO A POINT;
3. THENCE NORTH 09 DEGREES 48 MINUTES 18 SECONDS WEST, A DISTANCE OF 22.46 FEET TO A POINT;
4. THENCE NORTH 49 DEGREES 42 MINUTES 05 SECONDS EAST, A DISTANCE OF 50.68 FEET TO A POINT;
5. THENCE SOUTH 40 DEGREES 17 MINUTES 55 SECONDS EAST, A DISTANCE 19.31 FEET TO A POINT;
6. THENCE NORTH 49 DEGREES 42 MINUTES 05 SECONDS EAST, A DISTANCE OF 21.51 FEET TO A POINT;
7. THENCE NORTH 77 DEGREES 15 MINUTES 43 SECONDS EAST, A DISTANCE OF 13.66 FEET TO A POINT;
8. THENCE NORTH 12 DEGREES 42 MINUTES 11 SECONDS WEST, A DISTANCE OF 7.13 FEET TO A POINT;
9. THENCE NORTH 49 DEGREES 42 MINUTES 05 SECONDS EAST, A DISTANCE OF 108.85 FEET TO A POINT;
10. THENCE NORTH 40 DEGREES 17 MINUTES 55 SECONDS WEST, A DISTANCE OF 12.82 FEET TO A POINT;
11. THENCE NORTH 49 DEGREES 42 MINUTES 05 SECONDS EAST, A DISTANCE OF 47.46 FEET TO A POINT;
12. THENCE SOUTH 40 DEGREES 17 MINUTES 55 SECONDS EAST, A DISTANCE OF 13.09 FEET TO A POINT;
13. THENCE NORTH 66 DEGREES 45 MINUTES 02 SECONDS EAST, A DISTANCE OF 58.90 FEET TO A POINT ON THE WESTERLY RIGHT OF WAY LINE OF SAID WINCHESTER STREET;

THENCE SOUTHEASTERLY, ALONG WESTERLY RIGHT OF WAY LINE OF SAID WINCHESTER STREET, SOUTH 23 DEGREES 08 MINUTES 55 SECONDS EAST, A DISTANCE OF 109.05 FEET TO THE POINT AND PLACE OF BEGINNING.

CONTAINING 102,009 SQUARE FEET OR 2.342 ACRES OF LAND, MORE OR LESS.

TOGETHER WITH ALL THE RIGHTS AND INTERESTS IN THE 10 FEET WIDE RIGHT OF WAY EASEMENT AS RECORDED IN LIBER 2804, PAGE 193, OF THE PUBLIC RECORDS OF WESTCHESTER COUNTY, STATE OF NEW YORK.

CONTROL POINT ASSOCIATES, INC., ALL RIGHTS RESERVED
THE PURPOSE OF THIS DOCUMENT OR ANY PART THEREOF IS FOR USE ON THE ORIGINAL PROJECT OR
THE PURPOSE ORIGINALLY INTENDED. WITHOUT THE WRITTEN PERMISSION OF CONTROL POINT ASSOCIATES, INC., IS PROHIBITED.

UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW.

ONLY COPIES FROM THE ORIGINAL OF THIS SURVEY MARKED WITH AN ORIGINAL OF THE LAND SURVEYOR'S EMBOSSED OR INKED SEAL SHALL BE CONSIDERED TO BE VALID TRUE COPIES.

THIS SURVEY HAS BEEN PERFORMED IN THE FIELD UNDER MY SUPERVISION, AND TO THE BEST OF MY KNOWLEDGE, BELIEF, AND INFORMATION, THIS SURVEY HAS BEEN PERFORMED IN ACCORDANCE WITH CURRENTLY ACCEPTED ACCURACY STANDARDS.
NOT A VALID ORIGINAL DOCUMENT UNLESS EMBOSSED WITH RAISED IMPRESSION SEAL

PROGRESS PRINT
Nov 12, 2025 - 4:08pm

11-12-2025
DATE

ANDREW J. FLANAGAN
NEW YORK PROFESSIONAL LAND SURVEYOR #050417

No.	DESCRIPTION OF REVISION	FIELD CREW	DRAWN:	APPROVED:	DATE

FIELD DATE: 08-13-2025
FIELD BOOK NO.: NYC 25-06
FIELD BOOK PG.: 101
FIELD CREW: DG
DRAWN: M.A.P.

TAX LOT SURVEY
SECTION 125.83, BLOCK 7, P/O LOT 1.1,
SECTION 130.27, BLOCK 2, LOTS 2.1, 4 & 5
& BROOKFIELD STREET
26, 34, 42 & 60 EAST POST ROAD & DR. MARTIN L. KING, JR. BLVD.
CITY OF WHITE PLAINS, WESTCHESTER COUNTY
STATE OF NEW YORK

PREPARED BY:
CONTROL POINT ASSOCIATES, INC.
9 TIMES SQUARE, 200 WEST 41ST STREET, SUITE 1203
NEW YORK, NY 10036
646.780.0411 - 908.668.9595 FAX
WWW.CPASURVEY.COM

WARREN, NJ 908.668.0099
ALBANY, NY 518.217.5010
CHALFONT, PA 215.712.9800
MT. LAUREL, NJ 609.857.2099
LONG ISLAND, NY 631.580.2645
SOUTHBOROUGH, MA 508.948.3000
ROCHESTER, NY 585.250.1764

REVIEWED:	APPROVED:	DATE	SCALE	FILE NO.	SHEET
G.J.S.	A.J.F.	11-12-2025	N.T.S.	01-190014-11 TAX LOT SURVEY	2 OF 2

Appendix C: RIR Tables

TABLE 4.1A
SAMPLE SUMMARY TABLE - SOIL

Soil Samples					
Boring	**Sample ID**	**Sample Depth (ft bgs)**	**Sample Date**	**Lab ID**	**Analysis**
SB-1	SB-1 (2.0-2.5)	2.0-2.5	7/11/2025	L2543726	TCL+30/TAL PFAS
	SB-1 (5.5-6.0)	5.5-6.0	7/7/2025	L2542207	
	SB-1 (5.5-6.0)	5.5-6.0	7/9/2025	L2542974	
	SB-1 (10.5-11.0)	10.5-11.0	7/11/2025	L2543726	
SB-2	SB-2 (3.0-3.5)	3.0-3.5	7/11/2025	L2543726	TCL+30/TAL PFAS
	SB-2 (7.5-8.0)	7.5-8.0			
	SB-2 (12.0-12.5)	12.0-12.5	7/9/2025	L2542974	
	SB-2 (12.0-12.5)	12.0-12.5	7/7/2025	L2542207	
SB-3	SB-3 (3.5-4.0)	3.5-4.0	7/14/2025	L2543856	TCL+30/TAL PFAS
	SB-3 (7.5-8.0)	7.5-8.0			
	SB-3 (10.0-10.5)	10.0-10.5	7/9/2025	L2542974	
	SB-3 (10.0-10.5)	10.0-10.5	7/7/2025	L2542207	
SB-4	SB-4 (2.5-3.0)	2.5-3.0	7/14/2025	L2543856	TCL+30/TAL PFAS
	SB-4 (9.0-9.5)	9.0-9.5	7/7/2025	L2542207	
	SB-4 (9.0-9.5)	9.0-9.5	7/9/2025	L2542974	
	SB-4 (11.0-11.5)	11.0-11.5	7/14/2025	L2543856	
SB-5	SB-5 (3.0-3.5)	3.0-3.5	7/14/2025	L2543856	TCL+30/TAL PFAS
	SB-5 (8.5-9.0)	8.5-9.0			
	SB-5 (12.5-13.0)	12.5-13.0	7/9/2025	L2542974	
	SB-5 (12.5-13.0)	12.5-13.0	7/7/2025	L2542207	
SB-6	SB-6 (1.0-1.5)	1.0-1.5	7/11/2025	L2543726	TCL+30/TAL PFAS
	SB-6 (8.0-8.5)	8.0-8.5			
	SB-6 (10.5-11.0)	10.5-11.0	7/7/2025	L2542207	
	SB-6 (10.5-11.0)	10.5-11.0	7/9/2025	L2542974	
SB-7	SB-7 (2.5-3.0)	2.5-3.0	7/8/2025	L2542560	TCL+30/TAL PFAS
	SB-7 (2.5-3.0)	2.5-3.0	7/9/2025	L2542974	
	SB-7 (2.5-3.0)	2.5-3.0	7/9/2025	L2546016	
	SB-7 (6.0-6.5)	6.0-6.5	7/14/2025	L2543856	
SB-8	SB-8 (3.5-4.0)	3.5-4.0	7/15/2025	L2544282	TCL+30/TAL PFAS
	SB-8 (8.0-8.5)	8.0-8.5	7/8/2025	L2542560	
	SB-8 (11.0-11.5)	11.0-11.5	7/15/2025	L2544282	
	SB-8 (17.5-18.0)	17.5-18.0			
SB-9	SB-9 (1.5-2.0)	1.5-2.0	7/15/2025	L2544282	TCL+30/TAL PFAS
	SB-9 (6.0-6.5)	6.0-6.5			
	SB-9 (13.0-13.5)	13.0-13.5	7/8/2025	L2542560	
	SB-9 (16.0-16.5)	16.0-16.5	7/15/2025	L2544282	
SB-10	SB-10 (4.0-4.5)	4.0-4.5	7/8/2025	L2542560	TCL+30/TAL PFAS
	SB-10 (7.0-7.5)	7.0-7.5	7/15/2025	L2544282	
	SB-10 (13.5-14.0)	13.5-14.0			
	SB-10 (15.5-16.0)	15.5-16.0			
SB-11	SB-11 (16.0-16.5)	16.0-16.5	7/8/2025	L2542560	TCL+30/TAL PFAS
SB-12	SB-12 (1.5-2.0)	1.5-2.0	7/8/2025	L2542560	TCL+30/TAL PFAS
	SB-12 (5.5-6.0)	5.5-6.0	7/15/2025	L2544282	
	SB-12 (13.0-13.5)	13.0-13.5			
	SB-12 (18.0-18.5)	18.0-18.5			
SB-13	SB-13 (5.0-5.5)	5.0-5.5	7/9/2025	L2542974	TCL+30/TAL PFAS

TABLE 4.1A
SAMPLE SUMMARY TABLE - SOIL

Soil Samples					
Boring	**Sample ID**	**Sample Depth (ft bgs)**	**Sample Date**	**Lab ID**	**Analysis**
SB-14	SB-14 (3.5-4.0)	3.5-4.0	7/9/2025	L2542974	TCL+30/TAL PFAS
SB-15	SB-15 (2.5-3.0)	2.5-3.0	7/15/2025	L2544282	TCL+30/TAL PFAS
	SB-15 (6.0-6.5)	6.0-6.5	7/9/2025	L2542974	
	SB-15 (12.0-12.5)	12.0-12.5	7/15/2025	L2544282	
	SB-15 (16.5-17.0)	16.5-17.0			
SB-16	SB-16 (2.0-2.5)	2.0-2.5	7/9/2025	L2542974	TCL+30/TAL PFAS
	SB-16 (5.0-5.5)	5.0-5.5	7/11/2025	L2543726	
SB-17	SB-17 (3.0-3.5)	3.0-3.5	7/9/2025	L2542974	TCL+30/TAL PFAS
SB-18	SB-18 (2.0-2.5)	2.0-2.5	7/10/2025	L2543250	TCL+30/TAL PFAS
	SB-18 (6.5-7.0)	6.5-7.0	7/11/2025	L2543726	
SB-19	SB-19 (2.5-3.0)	2.5-3.0	7/10/2025	L2543250	TCL+30/TAL PFAS
SB-20	SB-20 (3.0-3.5)	3.0-3.5	7/10/2025	L2543250	TCL+30/TAL PFAS
SB-21	SB-21 (4.0-4.5)	4.0-4.5	7/10/2025	L2543250	TCL+30/TAL PFAS
	SB-21 (7.0-7.5)	7.0-7.5	7/11/2025	L2543726	
	SB-21 (13.0-13.5)	13.0-13.5			
SB-22	SB-22 (1.0-1.5)	1.0-1.5	7/11/2025	L2543726	TCL+30/TAL PFAS
	SB-22 (2.5-6.0)	2.5-6.0			
	SB-22 (11.5-12.0)	11.5-12.0			
SB-23	SB-23 (1.0-1.5)	1.0-1.5	7/29/2025	L2547611	TCL+30/TAL PFAS
	SB-23 (5.5-6.0)	5.5-6.0			
SB-24	SB-24 (3.5-4.0)	3.5-4.0	7/29/2025	L2547611	TCL+30/TAL PFAS
	SB-24 (7.0-7.5)	7.0-7.5			
SB-25	SB-25 (4.5-5.0)	4.5-5.0	7/29/2025	L2547611	TCL+30/TAL PFAS
	SB-25 (7.5-8.0)	7.5-8.0			
	SB-25 (11.0-11.5)	11.0-11.5			

TABLE 4.1A
SAMPLE SUMMARY TABLE - SOIL

Soil Samples					
Boring	**Sample ID**	**Sample Depth (ft bgs)**	**Sample Date**	**Lab ID**	**Analysis**
SB-26	SB-26 (4.0-4.5)	4.0-4.5	7/30/2025	L2547764	TCL+30/TAL PFAS
	SB-26 (6.5-7.0)	6.5-7.0			
	SB-26 (12.0-12.5)	12-12.5			
SB-27	SB-27 (3.0-3.5)	3.0-3.5	7/30/2025	L2547764	TCL+30/TAL PFAS
	SB-27 (7.0-7.5)	7.0-7.5			
	SB-27 (10.0-10.5)	10.0-10.5			
SB-28	SB-28 (1.0-1.5)	1.0-1.5	7/30/2025	L2547764	TCL+30/TAL PFAS
	SB-28 (8.0-8.5)	8.0-8.5			
	SB-28 (10.0-10.5)	10.0-10.5			
SB-29	SB-29 (2.5-3.0)	2.5-3.0	7/30/2025	L2547764	TCL+30/TAL PFAS
	SB-29 (8.0-8.5)	8.0-8.5			
	SB-29 (10.5-11)	10.5-11.0			
SB-30	SB-30 (2.5-3.0)	2.5-3.0	7/31/2025	L2548308	TCL+30/TAL PFAS
	SB-30 (7.5-8.0)	7.5-8.0			
	SB-30 (10.5-11.0)	10.5-11.0			
SB-31	SB-31 (4.5-5.0)	4.5-5.0	7/31/2025	L2548308	TCL+30/TAL PFAS
	SB-31 (9.5-10.0)	9.5-10.0			
	SB-31 (10.5-11.0)	10.5-11.0			
SB-32	SB-32 (1.0-1.5)	1.0-1.5	7/31/2025	L2548308	TCL+30/TAL PFAS
	SB-32 (4.0-4.5)	4.0-4.5			
	SB-32 (13.5-14.0)	13.5-14.0			
SB-33	SB-33 (4.0-4.5)	4.0-4.5	7/31/2025	L2548308	TCL+30/TAL PFAS
	SB-33 (6.0-6.5)	6.0-6.5			
	SB-33 (11.5-12.0)	11.5-12.0			
SB-34	SB-34 (2.5-3.0)	2.5-3.0	7/31/2025	L2548308	TCL+30/TAL PFAS
	SB-34 (7.0-7.5)	7.0-7.5			
	SB-34 (10.5-11.0)	10.5-11.0			
SB-35	SB-35 (0.5-1.0)	0.5-1.0	7/31/2025	L2548308	TCL+30/TAL PFAS
	SB-35 (9.0-9.5)	9.0-9.5			
	SB-35 (11.5-12.0)	11.5-12.0			
SB-36	SB-36 (8.0-9.0)	8.0-9.0	8/1/2025	L2548397	TCL+30/TAL PFAS
	SB-36 (14.0-15.0)	14.0-15.0			
SB-37	SB-37 (4.0-4.5)	4.0-4.5	7/31/2025	L2548309	TCL+30/TAL PFAS
	SB-37 (8.5-9.0)	8.5-9.0			
	SB-37 (11.5-12.0)	11.5-12.0			
	SB-37 (17.0-17.5)	17.0-17.5			
SB-38	SB-38 (2.0-2.5)	2.0-2.5	7/30/2025	L2547764	TCL+30/TAL PFAS
	SB-38 (5.5-6.0)	5.5-6.0			
	SB-38 (12.5-13.0)	12.5-13.0			
	SB-38 (16.5-17.0)	16.5-17.0			
SB-39	SB-39 (2.5-3.0)	2.5-3.0	7/31/2025	L2548309	TCL+30/TAL PFAS
	SB-39 (9.5-10.0)	9.5-10.0			
	SB-39 (14.0-14.5)	14.0-14.5			
	SB-39 (15.5-16.0)	15.5-16.0			
SB-40	SB-40 (1-1.5)	1.0-1.5	8/11/2025	L2550303	TCL+30/TAL PFAS
	SB-40 (8-9)	8.0-9.0			
	SB-40 (13.5-14)	13.5-14.0			

TABLE 4.1A
SAMPLE SUMMARY TABLE - SOIL

Soil Samples					
Boring	**Sample ID**	**Sample Depth (ft bgs)**	**Sample Date**	**Lab ID**	**Analysis**
SB-41	SB-41 (0.5-1.5)	0.5-1.5	8/11/2025	L2550303	TCL+30/TAL PFAS
	SB-41 (7-8)	7.0-8.0			
SB-42	SB-42 (3-4)	3.0-4.0	8/11/2025	L2550303	TCL+30/TAL PFAS
	SB-42 (8-9)	8.0-9.0			
SB-43	SB-43 (0.5-1.5)	0.5-1.5	8/11/2025	L2550303	TCL+30/TAL PFAS
	SB-43 (9-10)	9.0-10.0			
SB-44	SB-44 (2-3)	2.0-3.0	8/11/2025	L2553523	TCL+30/TAL PFAS
SB-45	SB-45 (1-2)	1.0-2.0	8/11/2025	L2550303	TCL+30/TAL PFAS
	SB-45 (9-10)	9.0-10.0			
SB-46	SB-46 (1-2)	1.0-2.0	8/11/2025	L2553533	TCL+30/TAL PFAS
	SB-46 (7-8)	7.0-8.0			
SB-47	SB-47 (4-5)	4.0-5.0	8/11/2025	L2553536	TCL+30/TAL PFAS
	SB-47 (9-10)	9.0-10.0			
SB-50	SB-50 (4-5)	4.0-5.0	8/11/2025	L2550303	TCL+30/TAL PFAS
	SB-50 (6.5-7.5)	6.5-7.5			
SB-51	SB-51 (2-3)	2.0-3.0	8/11/2025	L2550303	TCL+30/TAL PFAS
	SB-51 (9-10)	9.0-10.0			
SB-52	SB-52 (2-3)	2.0-3.0	8/11/2025	L2553523	TCL+30/TAL PFAS
	SB-52 (7.5-8.5)	7.5-8.5			
SB-56	SB-56 (1-2)	1.0-2.0	8/12/2025	L2250665	TCL+30/TAL PFAS
	SB-56 (9-10)	9.0-10.0			
	SB-56 (11-12)	11.0-12.0			
SB-57	SB-57 (1-2)	1.0-2.0	8/12/2025	L2250665	TCL+30/TAL PFAS
	SB-57 (7.5-8.5)	7.5-8.5			
	SB-57 (10-11)	10.0-11.0			
SB-58	SB-58 (4-5)	4.0-5.0	8/12/2025	L2250665	TCL+30/TAL PFAS
	SB-58 (7.5-8.5)	7.5-8.5			
SB-59	SB-59 (1-2)	1.0-2.0	8/12/2025	L2250665	TCL+30/TAL PFAS
SB-60	SB-60 (2-3)	2.0-3.0	8/12/2025	L2250665	TCL+30/TAL PFAS
	SB-60 (6-7)	6.0-7.0			
SB-61	SB-61 (1-2)	1.0-2.0	8/12/2025	L2250665	TCL+30/TAL PFAS
	SB-61 (5-6)	5.0-6.0			
SB-62	SB-62 (4-5)	4.0-5.0	8/12/2025	L2250665	TCL+30/TAL PFAS
	SB-62 (6-7)	6.0-7.0			
SB-63	SB-63 (2-3)	2.0-3.0	8/12/2025	L2553571	TCL+30/TAL PFAS
	SB-63 (7-8)	7.0-8.0			
SB-64	SB-64 (2-3)	2.0-3.0	8/12/2025	L2553571	TCL+30/TAL PFAS
	SB-64 (7.5-8.5)	7.5-8.5			
SB-65	SB-65 (1-2)	1.0-2.0	8/12/2025	L2250665	TCL+30/TAL PFAS
	SB-65 (6-7)	6.0-7.0			
SB-66	SB-66 (0.5-1.5)	0.5-1.5	8/13/2025	L2553509	TCL+30/TAL PFAS
	SB-66 (8.75-9.75)	8.75-9.75			
SB-68	SB-68 (2.25-3.25)	2.25-3.25	8/13/2025	L2551038	TCL+30/TAL PFAS
	SB-68 (5-6)	5.0-6.0			
SB-69	SB-69 (1-2)	1.0-2.0	8/13/2025	L2551038	TCL+30/TAL PFAS
	SB-69 (8.75-9.75)	8.75-9.75			

TABLE 4.1A
SAMPLE SUMMARY TABLE - SOIL

Soil Samples					
Boring	**Sample ID**	**Sample Depth (ft bgs)**	**Sample Date**	**Lab ID**	**Analysis**
SB-70	SB-70 (3.5-4.5)	3.5-4.5	8/13/2025	L2551038	TCL+30/TAL PFAS
	SB-70 (9-10)	9.0-10.0			
SB-71	SB-71 (1-2)	1.0-2.0	8/13/2025	L2551039	TCL+30/TAL PFAS
	SB-71 (8-9)	8.0-9.0			
SB-71	SB-71(2.0-2.5)	2.0-2.5	9/4/2025	JE18375	TCL+30/TAL
	SB-71(8.5-9.0)	8.5-9.0			
SB-72	SB-72(2.0-2.5)	2.0-2.5	9/4/2025	JE18375	TCL+30/TAL
	SB-72(5.5-6.0)	5.5-6.0			
SB-73	SB-73(1.5-2.0)	1.5-2.0	9/4/2025	JE18375	TCL+30/TAL
	SB-73(8.0-8.5)	8.0-8.5			
	SB-73(12.5-13)	12.5-13.0			
SB-74	SB-74 (2.5-3.0)	2.5-3.0	9/5/2025	JE18488	TCL+30/TAL
	SB-74 (6.5-7.0)	6.5-7.0			
SB-75	SB-75(12.0-12.5)	12.0-12.5	9/5/2025	JE18488	TCL+30/TAL
	SB-75(18.0-18.5)	18.0-18.5			
SB-76	SB-76 (2.0-2.5)	2.0-2.5	9/5/2025	JE18488	TCL+30/TAL
	SB-76 (5.5-6.0)	5.5-6.0			
	SB-76 (12.5-3.0)	12.5-13.0			
	SB-76 (17.5-18.0)	17.5-18.0			
SB-77	SB-77(2.0-2.5)	2.0-2.5	9/8/2025	JE18629	TCL+30/TAL
	SB-77(9.0-9.5)	9.0-9.5			
	SB-77(12.5-13)	12.5-13.0			
SB-78	SB-78(2.5-3.0)	2.5-3.0	9/4/2025	JE18375	TCL+30/TAL
	SB-78(6.5-7.0)	6.5-7.0			
SB-79	SB-79(2.5-3)	2.5-3.0	9/8/2025	JE18629	TCL+30/TAL
	SB-79(7.5-8.0)	7.5-8.0			
	SB-79(13.5-14.0)	13.5-14.0			
SB-80	SB-80(4.0-4.5)	4.0-4.5	9/8/2025	JE18629	TCL+30/TAL
	SB-80(8.5-9.0)	8.5-9.0			
	SB-80(12-12.5)	12.0-12.5			
SB-81	SB-81(2.5-3.0)	2.5-3.0	9/9/2025	JE18698	TCL+30/TAL
	SB-81(6.5-7.0)	6.5-7.0			
SB-82	SB-82(3.5-4.0)	3.5-4.0	9/9/2025	JE18698	TCL+30/TAL
	SB-82(7.5-8.0)	7.5-8.0			
SB-83	SB-83(3-3.5)	3.0-3.5	9/9/2025	JE18698	TCL+30/TAL
	SB-83(6-6.5)	6.0-6.5			
	SB-83(13.5-14)	13.5-14.0			
SB-84	SB-84(2.5-3.0)	2.5-3.0	9/9/2025	JE18698	TCL+30/TAL
	SB-84(8-8.5)	8.0-8.5			
	SB-84(12.5-13.0)	12.0-13.0			
SB-85	SB-85(4.5-5.0)	4.5-5.0	9/9/2025	JE18698	TCL+30/TAL
	SB-85(7-7.5)	7.0-7.5			
	SB-85(11-11.5)	11.0-11.5			
	SB-85(16.5-17.0)	16.5-17.0			
SB-86	SB-86(4-4.5)	4.0-4.5	9/9/2025	JE18698	TCL+30/TAL
	SB-86(6.5-7.0)	6.5-7.0			

TABLE 4.1A
SAMPLE SUMMARY TABLE - SOIL

Soil Samples					
Boring	**Sample ID**	**Sample Depth (ft bgs)**	**Sample Date**	**Lab ID**	**Analysis**
SB-87	SB-87(3-3.5)	3.0-3.5	9/9/2025	JE18698	TCL+30/TAL
	SB-87(6-6.5)	6.0-6.5			
	SB-87(14-14.5)	14.0-14.5			
SB-88	SB-88(4.5-5.0)	4.5-5.0	9/10/2025	JE18798	TCL+30/TAL
	SB-88(6.5-7.0)	6.5-7.0			
	SB-88(13.5-14.0)	13.5-14.0			
SB-89	SB-89(2.5-3.0)	2.5-3.0	9/10/2025	JE18798	TCL+30/TAL
	SB-89(6.5-7.0)	6.5-7.0			
	SB-89(12.5-13.0)	12.5-13.0			
SB-90	SB-90(3.5-4.0)	3.5-4.0	9/10/2025	JE18796	TCL+30/TAL
	SB-90(6.5-7.0)	6.5-7.0			
	SB-90(13-13.5)	13.0-13.5			
SB-91	SB-91(3.5-4.0)	3.5-4.0	9/10/2025	JE18796	TCL+30/TAL
	SB-91(7.0-7.5)	7.0-7.5			
SB-92	SB-92(2.0-2.5)	2.0-2.5	9/10/2025	JE18796	TCL+30/TAL
	SB-92(5.5-6.0)	5.5-6.0			

Notes:

TCL+30/TAL: Target Compound List/Target Analyte List + 30

PFAS: per- and polyfluoroalkyl substances

TABLE 4.1B
SAMPLE SUMMARY TABLE - GROUNDWATER

Groundwater Samples			
Location Name	**Sample Date**	**Lab ID**	**Analysis**
TW-1	7/10/2025	L2543250	TCL+30/TAL, PFAS, 1,4-Dioxane
TW-2	7/10/2025	L2543250	TCL+30/TAL, PFAS, 1,4-Dioxane
TW-3	7/29/2025	L2547611	VOCs, Metals, PFAS, 1,4-Dioxane
TW-4	7/31/2025	L2548309	PFAS
TW-4	8/1/2025	L2548398	VOCs, Metals, PFAS, 1,4-Dioxane
TW-5	7/31/2025	L2548309	TCL+30/TAL, PFAS, 1,4-Dioxane
TW-6	8/1/2025	L2548397	VOCs, Metals, PFAS, 1,4-Dioxane
TW-7	8/14/2025	L2551402	TCL+30/TAL, PFAS, 1,4-Dioxane
TW-8	8/14/2025	L2551402	TCL+30/TAL, PFAS, 1,4-Dioxane
TW-9	9/5/2025	JE18488	TCL+30/TAL, 1,4-Dioxane
TW-10	9/5/2025	JE18488	VOCs, Metals, 1,4-Dioxane
TW-11	9/5/2025	JE18488	TCL+30/TAL, 1,4-Dioxane
TW-12	9/8/2025	JE18629	TCL+30/TAL, 1,4-Dioxane
TW-13	9/8/2025	JE18629	TCL+30/TAL, 1,4-Dioxane
TW-14	9/9/2025	JE18698	TCL/TAL+30, 1,4-Dioxane
TW-15	9/9/2025	JE18698	VOCs, SVOCs, PCBs, Metals, 1,4-Dioxane
TW-16	9/9/2025	JE18698	TCL+30/TAL, 1,4-Dioxane
TW-17	9/9/2025	JE18698	TCL+30/TAL, 1,4-Dioxane
TW-18	9/10/2025	JE18798	TCL+30/TAL, 1,4-Dioxane

Notes:

TCL+30/TAL: Target Compound List/Target Analyte List + 30

PFAS: per- and polyfluoroalkyl substances

*Does not include field and trip blanks collected as QA/QC measures

TABLE 4.1C
SAMPLE SUMMARY TABLE - SOIL VAPOR

Soil Vapor Samples				
Location Name	**Lab Order**	**Sample Depth (ft)**	**Date**	**Analysis**
SV-1	L2546945	Beneath Concrete	7/25/2025	TO-15 VOCs
SV-2	L2546945	Beneath Concrete	7/25/2025	TO-15 VOCs
SV-3	L2546945	Beneath Asphalt	7/25/2025	TO-15 VOCs
SV-4	L2546945	Beneath Concrete	7/25/2025	TO-15 VOCs
SV-5	L2548401	Beneath Asphalt	8/1/2025	TO-15 VOCs
SV-6	L2551761	Beneath Asphalt	8/15/2025	TO-15 VOCs
SV-7	L2551761	Beneath Asphalt	8/15/2025	TO-15 VOCs

TABLE 4.1D
SAMPLE SUMMARY TABLE - QA/QC SAMPLES

QA/QC Samples			
Location Name	**Sample Date**	**Lab ID**	**Analysis**
TRIP BLANK	7/31/2025	L2548309	VOCs
TRIP BLANK	8/1/2025	L2548397	VOCs
FIELD BLANK	8/11/2025	L2550303	TCL+30/TAL, PFAS, 1,4-Dioxane
FIELD BLANK	8/12/2025	L2550665	TCL+30/TAL, PFAS, 1,4-Dioxane
FIELD BLANK	8/13/2025	L2551039	TCL+30/TAL, PFAS, 1,4-Dioxane
FIELD BLANK	8/14/2025	L2551039	TCL+30/TAL, PFAS, 1,4-Dioxane

Notes:

TCL+30/TAL: Target Compound List/Target Analyte List + 30

PFAS: per- and polyfluoroalkyl substances

*Does not include field and trip blanks collected as QA/QC measures

TABLE 5.1 A
SUMMARY OF SOIL SAMPLING RESULTS—VOCs

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-1 (2.0-2.5)		SB-1 (5.5-6.0)		SB-1 (10.5-11.0)		SB-2 (3.0-3.5)		SB-2 (5.5-8.0)		SB-2 (12.0-12.5)		SB-3 (3.5-4.0)		SB-3 (7.5-8.0)		SB-3 (7.5-8.0)		SB-3 (10.0-10.5)		SB-4 (2.5-3.0)		SB-4 (9.0-9.5)		SB-4 (11.0-11.5)		SB-5 (3.0-3.5)		SB-5 (8.5-9.0)		SB-5 (12.5-13.0)	
LAB SAMPLE ID:							L2543726-10		L2542207-01		L2543726-11		L2543726-08		L2543726-09		L2542207-02		L2543856-01		L2543856-02		L2543856-02 R1		L2542207-03		L2543856-03		L2542207-04		L2543856-04		L2543856-06		L2543856-07		L2542207-05	
SAMPLE DATE:							7/11/2025		7/7/2025		7/11/2025		7/11/2025		7/11/2025		7/7/2025		7/14/2025		7/14/2025		7/14/2025		7/7/2025		7/14/2025		7/7/2025		7/14/2025		7/14/2025		7/14/2025		7/7/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
VOCs (SW846 8260D)																																						
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	NS	NS	NS	NS	0.031	U	0.00051	U	0.00042	U	0.00057	U	0.026	U	0.00051	U	0.00064	U	0.1	U	-		0.029	U	0.00056	U	0.00056	U	0.0005	U	0.00053	U	0.00057	U	0.00047	U
1,1,1-Trichloroethane	71-55-6	mg/kg	0.68	100	500	0.68	0.031	U	0.00051	U	0.00042	U	0.00057	U	0.026	U	0.00051	U	0.00064	U	0.1	U	-		0.029	U	0.00056	U	0.00056	U	0.0005	U	0.00053	U	0.00057	U	0.00047	U
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	NS	NS	NS	NS	0.031	U	0.00051	U	0.00042	U	0.00057	U	0.026	U	0.00051	U	0.00064	U	0.1	U	-		0.029	U	0.00056	U	0.00056	U	0.0005	U	0.00053	U	0.00057	U	0.00047	U
1,1,2-Trichloroethane	79-00-5	mg/kg	NS	NS	NS	NS	0.062	U	0.001	U	0.00084	U	0.0011	U	0.051	U	0.001	U	0.0013	U	0.2	U	-		0.058	U	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0011	U	0.00094	U
1,1-Dichloroethane	75-34-3	mg/kg	0.27	47	240	0.27	0.062	U	0.001	U	0.00084	U	0.0011	U	0.051	U	0.001	U	0.0013	U	0.2	U	-		0.058	U	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0011	U	0.00094	U
1,1-Dichloroethene	75-35-4	mg/kg	0.24	0.98	5.1	0.33	0.062	U	0.001	U	0.00084	U	0.0011	U	0.051	U	0.001	U	0.0013	U	0.2	U	-		0.058	U	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0011	U	0.00094	U
1,1-Dichloropropene	563-58-6	mg/kg	NS	NS	NS	NS	0.031	U	0.00059		0.00042	U	0.00057	U	0.026	U	0.00051	U	0.00064	U	0.1	U	-		0.029	U	0.00056	U	0.00056	U	0.0005	U	0.00053	U	0.00057	U	0.00047	U
1,2,3-Trichlorobenzene	87-61-6	mg/kg	NS	NS	NS	NS	0.12	U	0.002	U	0.0017	U	0.0023	U	0.1	U	0.002	U	0.0026	U	0.41	U	-		0.12	U	0.0022	U	0.0022	U	0.002	U	0.0021	U	0.0023	U	0.0019	U
1,2,3-Trichloropropane	96-18-4	mg/kg	NS	NS	NS	NS	0.12	U	0.002	U	0.0017	U	0.0023	U	0.1	U	0.002	U	0.0026	U	0.41	U	-		0.12	U	0.0022	U	0.0022	U	0.002	U	0.0021	U	0.0023	U	0.0019	U
1,2,4,5-Tetramethylbenzene	95-93-2	mg/kg	NS	NS	NS	NS	0.83		0.74	E	0.0014	J	0.0023	U	0.46		0.0051		0.0026	U	21		-		2.1		0.0022	U	0.0022	U	0.002	U	0.0021	U	0.0023	U	0.098	
1,2,4-Trichlorobenzene	120-82-1	mg/kg	NS	NS	NS	NS	0.12	U	0.002	U	0.0017	U	0.0023	U	0.1	U	0.002	U	0.0026	U	0.41	U	-		0.12	U	0.0022	U	0.0022	U	0.002	U	0.0021	U	0.0023	U	0.0019	U
1,2,4-Trimethylbenzene	95-63-6	mg/kg	5.9	100	500	5.9	1.1		0.02		0.0017	U	0.0023	U	3.9		0.0047		0.0026	U	93		90	E	14		0.0022	U	0.0022	U	0.002	U	0.0021	U	0.0023	U	0.00099	J
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	NS	NS	NS	NS	0.18	U	0.0031	U	0.0025	U	0.0034	U	0.15	U	0.003	U	0.0038	U	0.61	U	-		0.17	U	0.0034	U	0.0034	U	0.003	U	0.0032	U	0.0034	U	0.0028	U
1,2-Dibromoethane	106-93-4	mg/kg	NS	NS	NS	NS	0.062	U	0.001	U	0.00084	U	0.0011	U	0.051	U	0.001	U	0.0013	U	0.2	U	-		0.058	U	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0011	U	0.00094	U
1,2-Dichlorobenzene	95-50-1	mg/kg	1.1	100	500	1.1	0.12	U	0.002	U	0.0017	U	0.0023	U	0.1	U	0.002	U	0.0026	U	0.41	U	-		0.12	U	0.0022	U	0.0022	U	0.002	U	0.0021	U	0.0023	U	0.0019	U
1,2-Dichloroethane	107-06-2	mg/kg	0.02	5.8	30	0.02	0.062	U	0.001	U	0.00084	U	0.0011	U	0.051	U	0.001	U	0.0013	U	0.2	U	-		0.058	U	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0011	U	0.00094	U
1,2-Dichloroethene, Total	540-59-0	mg/kg	NS	NS	NS	NS	0.062	U	0.001	U	0.00084	U	0.0011	U	0.051	U	0.001	U	0.0013	U	0.2	U	-		0.058	U	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0011	U	0.00094	U
1,2-Dichloropropane	78-87-5	mg/kg	NS	NS	NS	NS	0.062	U	0.001	U	0.00084	U	0.0011	U	0.051	U	0.001	U	0.0013	U	0.2	U	-		0.058	U	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0011	U	0.00094	U
1,3,5-Trimethylbenzene	108-67-8	mg/kg	3.1	100	500	3.1	0.28		0.0084		0.0017	U	0.0023	U	1.1		0.00064	J	0.0026	U	34		-		3.7		0.0022	U	0.002	U	0.0021	U	0.002	U	0.0021	U	0.00027	J
1,3-Dichlorobenzene	541-73-1	mg/kg	2.6	38	280	2.6	0.12	U	0.002	U	0.0017	U	0.0023	U	0.1	U	0.002	U	0.0026	U	0.41	U	-		0.12	U	0.0022	U	0.0022	U	0.002	U	0.0021	U	0.0023	U	0.0019	U
1,3-Dichloropropane	142-28-9	mg/kg	NS	NS	NS	NS	0.12	U	0.002	U	0.0017	U	0.0023	U	0.1	U	0.002	U	0.0026	U	0.41	U	-		0.12	U	0.0022	U	0.0022	U	0.002	U	0.0021	U	0.0023	U	0.0019	U
1,3-Dichloropropene, Total	542-75-6	mg/kg	NS	NS	NS	NS	0.031	U	0.00051	U	0.00042	U	0.00057	U	0.026	U	0.00051	U	0.00064	U	0.1	U	-		0.029	U	0.00056	U	0.00056	U	0.0005	U	0.00053	U	0.00057	U	0.00047	U
1,4-Dichlorobenzene	106-46-7	mg/kg	1.8	24	130	1.8	0.12	U	0.002	U	0.0017	U	0.0023	U	0.1	U	0.002	U	0.0026	U	0.41	U	-		0.12	U	0.0022	U	0.0022	U	0.002	U	0.0021	U	0.0023	U	0.0019	U
1,4-Dioxane	123-91-1	mg/kg	0.1	5.7	36	0.1	4.9	U	0.082	U	0.067	U	0.092	U	4.1	U	0.081	U	0.1	U	16	U	-		4.6	U	0.09	U	0.09	U	0.08	U	0.085	U	0.092	U	0.076	U
2,2-Dichloropropane	594-20-7	mg/kg	NS	NS	NS	NS	0.12	U	0.002	U	0.0017	U	0.0023	U	0.1	U	0.002	U	0.0026	U	0.41	U	-		0.12	U	0.0022	U	0.0022	U	0.002	U	0.0021	U	0.0023	U	0.0019	U
2-Butanone (MEK)	78-93-3	mg/kg	0.1	100	500	0.1	0.62	U	0.01	U	0.002	J	0.011	U	0.51	U	0.01	U	0.013	U	2	U	-		0.58	U	0.011	U	0.011	U	0.01	U	0.011	U	0.011	U	0.0094	U
2-Hexanone	591-78-6	mg/kg	NS	NS	NS	NS	0.62	U	0.01	U	0.0084	U	0.011	U	0.51	U	0.01	U	0.013	U	2	U	-		0.58	U	0.011	U	0.011	U	0.01	U	0.011	U	0.011	U	0.0094	U
4-Methyl-2-pentanone(MIBK)	108-10-1	mg/kg	NS	NS	NS	NS	0.62	U	0.024		0.0084	U	0.011	U	0.51	U	0.01	U	0.013	U	2	U	-		0.58	U	0.011	U	0.011	U	0.01	U	0.011	U	0.011	U	0.0094	U
Acetone	67-64-1	mg/kg	0.03	100	500	0.03	0.62	U	0.026		0.0093	U	0.011	U	0.28	J	0.0094	J	0.013	U	2	U	-		0.58	U	0.011	U	0.011	U	0.01	U	0.011	U	0.011	U	0.054	
Acrylonitrile	107-13-1	mg/kg	NS	NS	NS	NS	0.25	U	0.0041	U	0.0034	U	0.0046	U	0.2	U	0.0041	U	0.0051	U	0.82		-		0.23	U	0.0045	U	0.0045	U	0.004	U	0.0042	U	0.0046	U	0.0038	U
Benzene	71-43-2	mg/kg	0.06	3.7	20	0.06	0.73		0.018		0.00042	U	0.00057	U	0.026	U	0.00073		0.00064	U	0.1	U	-		0.029	U	0.00056	U	0.00056	U	0.0005	U	0.00053	U	0.00057	U	0.00047	U
Bromobenzene	108-86-1	mg/kg	NS	NS	NS	NS	0.12	U	0.002	U	0.0017	U	0.0023	U	0.1	U	0.002	U	0.0026	U	0.41	U	-		0.12	U	0.0022	U	0.0022	U	0.002	U	0.0021	U	0.0023	U	0.0019	U
Bromochloromethane	74-97-5	mg/kg	NS	NS	NS	NS	0.12	U	0.002	U	0.0017	U	0.0023	U	0.1	U	0.002	U	0.0026	U	0.41	U	-		0.12	U	0.0022	U	0.0022	U	0.002	U	0.0021	U	0.0023	U	0.0019	U
Bromodichloromethane	75-27-4	mg/kg	NS	NS	NS	NS	0.031	U	0.00051	U	0.00042	U	0.00057	U	0.026	U	0.00051	U	0.00064	U	0.1	U	-		0.029	U	0.00056	U	0.00056	U	0.0005	U	0.00053	U	0.00057	U	0.00047	U
Bromoform	75-25-2	mg/kg	NS	NS	NS	NS	0.25	U	0.0041	U	0.0034	U	0.0046	U	0.2	U	0.0041	U	0.0051	U	0.82	U	-		0.23	U	0.0045	U	0.0045	U	0.004	U	0.0042	U	0.0046	U	0.0038	U
Bromomethane	74-83-9	mg/kg	NS	NS	NS	NS	0.041	J	0.002	U	0.0017	U	0.0023	U	0.1	U	0.002	U	0.0026	U	0.41	U	-		0.12	U	0.0022	U	0.0022	U	0.002	U	0.0021	U	0.0023	U	0.0019	U
Carbon disulfide	75-15-0	mg/kg	NS	NS	NS	NS	0.62	U	0.01	U	0.0084	U	0.011	U	0.51	U	0.01	U	0.013	U	2	U	-		0.58	U	0.011	U	0.011	U	0.01	U	0.011	U	0.011	U	0.0094	U
Carbon tetrachloride	56-23-5	mg/kg	0.76	7.1	41	0.76	0.062	U	0.001	U	0.00084	U	0.0011	U	0.051	U	0.001	U	0.0013	U	0.2	U	-		0.058	U	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0011	U	0.00094	U
Chlorobenzene	108-90-7	mg/kg	4.5	100	500	4.5	0.031	U	0.00051	U	0.00042	U	0.00057	U	0.026	U	0.00051	U	0.00064	U	0.1	U	-		0.029	U	0.00056	U	0.00056	U	0.0005	U	0.00053	U	0.00057	U	0.00047	U
Chloroethane	75-00-3	mg/kg	NS	NS	NS	NS	0.12	U	0.002	U	0.0017	U	0.0023	U	0.1	U	0.002	U	0.0026	U	0.41	U	-		0.12	U	0.0022	U	0.0022	U	0.002	U	0.0021	U	0.0023	U	0.0019	U
Chloroform	67-66-3	mg/kg	0.37	24	180	0.37	0.093	U	0.0015	U	0.0013	U	0.0017	U	0.077	U	0.0015	U	0.0019	U	0.31	U	-		0.087	U	0.0017	U	0.0017	U	0.0015	U	0.0016	U	0.0017	U	0.0014	U
Chloromethane	74-87-3	mg/kg	NS	NS	NS	NS	0.25	U	0.0041	U	0.0034	U	0.0046	U	0.2	U	0.0041	U	0.0051	U	0.82	U	-		0.23	U	0.0045	U	0.0045	U	0.004	U	0.0042	U	0.0046	U	0.0038	U
cis-1,2-Dichloroethene	156-59-2	mg/kg	0.19	41	500	0.19	0.062	U	0.001	U	0.00084	U	0.0011	U	0.051	U	0.001	U	0.0013	U	0.2	U	-		0.058	U	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0011	U	0.00094	U
cis-1,3-Dichloropropene	10061-01-5	mg/kg	NS	NS	NS	NS	0.031	U	0.00051	U	0.00042	U	0.00057	U	0.026	U	0.00051	U	0.00064	U	0.1	U	-		0.029	U	0.00056	U	0.00056	U	0.0005	U	0.00053	U	0.00057	U	0.00047	U
Cyclohexane	110-82-7	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Dibromochloromethane	124-48-1	mg/kg	NS	NS	NS	NS	0.062	U	0.001	U	0.00084	U	0.0011	U	0.051	U	0.001	U	0.0013	U	0.2	U	-		0.058	U	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0011	U	0.00094	U
Dibromomethane	74-95-3	mg/kg	NS	NS	NS	NS	0.12	U	0.002	U	0.0017	U	0.0023	U	0.1	U	0.002	U	0.0026	U	0.41	U	-		0.12	U	0.0022	U	0.0022	U	0.002	U	0.0021	U	0.0023	U	0.0019	U
Dichlorodifluoromethane	75-71-8	mg/kg	NS	NS	NS	NS	0.62	U	0.01	U	0.0084	U	0.011	U	0.51	U	0.01	U	0.013	U	2	U	-		0.58	U	0.011	U	0.011	U	0.01	U	0.011	U	0.011	U	0.0094	U
Ethyl ether	60-29-7	mg/kg	NS	NS	NS	NS	0.12	U	0.002	U	0.0017	U	0.0023	U	0.1	U	0.002	U	0.0026	U	0.41	U	-		0.12	U	0.0022	U	0.0022	U	0.002	U	0.0021	U	0.0023	U	0.0019	U
Ethylbenzene	100-41-4	mg/kg	1	76	390	1	0.91		0.035		0.00014	J	0.0011	U	0.58		0.0006	J	0.0013	U	2.1		-		0.99		0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0011	U	0.00094	U
Freon 113	76-13-1	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Hexachlorobutadiene	87-68-3	mg/kg	NS	NS	NS	NS	0.25	U	0.0041	U	0.0034	U	0.0046	U	0.2	U	0.0041	U	0.0051	U	0.82	U	-		0.23	U	0.0045	U	0.0045	U	0.004	U	0.0042	U	0.0046	U	0.0038	U
Isopropylbenzene	98-82-8	mg/kg	NS	NS	NS	NS	0.06	J	0.082		0.00084	U	0.0011	U	0.18		0.003		0.0013	U	8		-		0.69		0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0011	U	0.0011	
m,p-Xylene	179601-23-1	mg/kg	NS	NS	NS	NS	3.9		0.05		0.0017	U	0.0023	U	1.9		0.0038		0.0026	U	2.9		-		1.8		0.0022	U	0.0022	U	0.002	U	0.0021	U	0.0023	U	0.0019	U
Methyl Acetate	79-20-9	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Methyl Tert Butyl Ether	1634-04-4	mg/kg	0.1	100	500	0.1	0.12	U	0.002	U	0.0017	U	0.0023	U	0.1	U	0.002	U	0.0026	U	0.41	U	-		0.12	U	0.0022	U	0.0022	U	0.002	U	0.0021	U	0.0023	U	0.0019	U
Methylcyclohexane	108-87-2	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Methylene chloride	75-09-2	mg/kg	0.05	81	500	0.05	0.31	U	0.0051	U	0.0042	U	0.0057	U	0.26	U	0.0051	U	0.0064	U	1	U	-		0.29	U	0.0056	U	0.0056	U	0.005	U	0.0053	U	0.0057	U	0.0047	U
Naphthalene	91-20-3	mg/kg	12	100	500	12	0.6		0.24		0.0034	U	0.0046	U	0.73		0.0027	J	0.0051	U	5.2		-		1.9		0.0045	U	0.0045	U	0.004	U	0.0042	U	0.0046	U	0.0023	J
n-Butylbenzene	104-51-8	mg/kg	18	100	500	18	0.12		0.084		0.00084	U	0.0011	U	0.26		0.00096	J	0.0013	U	8.2		-		1.3		0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0011	U	0.016	
n-Propylbenzene	103-65-1	mg/kg	5	100	500	5	0.25		0.15		0.00084	U	0.0011	U	0.61		0.0068		0.0013	U	29		-		2.9		0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0011	U	0.002	
o-Chlorotoluene	95-49-8	mg/kg	NS	NS	NS	NS	0.12	U	0.002	U	0.0017	U	0.0023	U	0.1	U	0.002	U	0.0026	U	0.41	U	-		0.12	U	0.0022	U	0.0022	U	0.002	U	0.0021	U	0.0023	U	0.0019	U
o-Xylene	95-47-6	mg/kg	NS	NS	NS	NS	0.66		0.012		0.00084	U	0.0011	U	0.059		0.0011		0.0013	U	0.083	J	-		0.041	J	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0011	U	0.00094	U
p-Chlorotoluene	106-43-4	mg/kg	NS	NS	NS	NS	0.12	U	0.002	U	0.0017	U	0.0023	U	0.1	U	0.002	U	0.0026	U	0.41	U	-		0.12	U	0.0022	U	0.0022	U	0.002	U	0.0021	U	0.0023	U	0.0019	U
p-Diethylbenzene	105-05-5	mg/kg	NS	NS	NS	NS	0.34		0.24		0.00032	J	0.0023	U	1.5		0.0021		0.0026	U	40		-		0.74		0.0022	U	0.0022	U	0.002	U	0.0021	U	0.0023	U	0.06	
p-Ethyltoluene	622-96-8	mg/kg	NS	NS	NS	NS	1.4		0.03		0.0017	U	0.0023	U	3.1		0.0041		0.0026	U	57		62	E	4.5		0.0022	U	0.0022	U	0.002	U	0.0021	U	0.0023	U	0.00091	J
p-Isopropyltoluene	99-87-6	mg/kg	NS	NS	NS	NS	0.04	J	0.011		0.00084	U	0.0011	U	0.051		0.00049	J	0.0013	U	1		-		0.18		0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0011	U	0.00052	J
sec-Butylbenzene	135-98-8	mg/kg	25	100	500	25	0.09		0.11		0.00084	U	0.0011	U	0.082		0.0012		0.0013	U	3.5		-		0.39		0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0011	U	0.063	
Styrene	100-42-5	mg/kg	NS	NS	NS	NS	0.052	J	0.00043	J	0.00084	U	0.00065	J	0.031	J	0.001	U	0.0013	U	0.2	U	-		0.058	U	0.00064	J	0.0011	U	0.001	U	0.0011	U	0.0011	U	0.00094	U
tert-Butylbenzene	98-06-6	mg/kg	11	100	500	11	0.016	J	0.047		0.0017	U	0.0023	U	0.1	U	0.002	U	0.0026	U	0.41	U	-		0.007	J	0.0022	U	0.0022	U	0.002	U	0.0021	U	0.0023	U	0.0012	J
Tetrachloroethene	127-18-4	mg/kg	1.3	18	81	1.3	0.031	U	0.00022	J	0.00042	U	0.00057	U	0.026	U	0.00051	U	0.00064	U	0.1	U	-		0.029	U	0.00056	U	0.00056	U	0.0005	U	0.00053	U	0.00057	U	0.00047	U
Toluene	108-88-3	mg/kg	0.7	100	500	0.7	2.7		0.018		0.00057	J	0.0011	U	0.051	U	0.0011		0.0013	U	0.2	U	-		0.058	U	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0011	U	0.00094	U
trans-1,2-Dichloroethene	156-60-5	mg/kg	0.19	100	500	0.19	0.093	U	0.0015	U	0.0013	U	0.0017	U	0.077	U	0.0015	U	0.0019	U	0.31	U	-		0.087	U	0.0017	U	0.0017	U	0.0015	U	0.0016	U	0.0017	U	0.0014	U
trans-1,3-Dichloropropene	10061-02-6	mg/kg	NS	NS	NS	NS	0.062	U	0.001	U	0.00084	U	0.0011	U	0.051	U	0.001	U	0.0013	U	0.2	U	-		0.058	U	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0011	U	0.00094	U
trans-1,4-Dichloro-2-butene	110-57-6	mg/kg	NS	NS	NS	NS	0.31	U	0.0051	U	0.0042	U	0.0057	U	0.26	U	0.0051	U	0.0064	U	1	U	-		0.29	U	0.0056	U	0.0056	U	0.005	U	0.0053	U	0.0057	U	0.0047	U
Trichloroethene	79-01-6	mg/kg	0.47	6.4	54	0.47	0.031	U	0.00051	U	0.00042	U	0.00057	U	0.026	U	0.00051	U	0.00064	U	0.1	U	-		0.029	U	0.00056	U	0.00056	U	0.0005	U	0.00053	U	0.00057	U	0.00047	U
Trichlorofluoromethane	75-69-4	mg/kg	NS	NS	NS	NS	0.25	U	0.0041	U	0.0034	U	0.0046	U	0.2	U	0.0041	U	0.0051	U	0.82	U	-		0.23	U	0.0045	U	0.0045	U	0.004	U	0.0042	U	0.0046	U	0.0038	U
Vinyl acetate	108-05-4	mg/kg	NS	NS	NS	NS	0.62	U	0.01	U	0.0084	U	0.011	U	0.51	U	0.01	U	0.013	U	2	U	-		0.58	U	0.011	U	0.011	U	0.01	U	0.011	U	0.011	U	0.0094	U
Vinyl chloride	75-01-4	mg/kg	0.03	0.48	7.1	0.03	0.062	U	0.001	U	0.00084	U	0.0011	U	0.051	U	0.001	U	0.0013	U	0.2	U	-		0.058	U	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0011	U	0.00094	U
Xylene (total)	1330-20-7	mg/kg	0.26	100	500	1.2	4.6		0.062		0.00084	U	0.0011	U	2		0.0049		0.0013	U	3	J	-		1.8	J	0.0011	U	0.0011	U	0.001	U	0.0011	U	0.0011	U	0.00094	U
Total TIC, Volatile	-	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs
Concentration Exceeds NYSDEC RRUSCOs
Concentration Exceeds NYSDEC UUSCOs
Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

TABLE 5.1 A
SUMMARY OF SOIL SAMPLING RESULTS—VOCs

SAMPLE ID:							SB-6 (1.0-1.5)		SB-6 (8.0-8.5)		SB-6 (10.5-11.0)		SB-6 (10.5-11.0)		SB-7 (2.5-3.0)		SB-7 (6.0-6.5)		SB-8 (3.5-4.0)		SB-8 (8.0-8.5)		SB-8 (11.0-11.5)		SB-8 (17.5-18.0)		SB-9 (1.5-2.0)		SB-9 (6.0-6.5)		SB-9 (13.0-13.5)		SB-9 (16.0-16.5)		SB-10 (4.0-4.5)		SB-10 (7.0-7.5)		SB-10 (13.5-14.0)		SB-10 (15.5-16.0)	
LAB SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	L2543726-12		L2543726-13		L2542207-06		L2542207-06 R1		L2542560-01		L2543856-05		L2544282-04		L2542560-02		L2544282-05		L2544282-06		L2544282-01		L2542560-02		L2542560-03		L2544282-03		L2542560-04		L2544282-07		L2544282-08		L2544282-09	
SAMPLE DATE:							7/11/2025		7/11/2025		7/7/2025		7/7/2025		7/8/2025		7/14/2025		7/15/2025		7/8/2025		7/15/2025		7/15/2025		7/15/2025		7/15/2025		7/8/2025		7/15/2025		7/8/2025		7/15/2025		7/15/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
VOCs (SW846 8260D)																																										
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	NS	NS	NS	NS	0.0006	U	0.00049	U	0.031	U	-		0.00053	U	0.00042	U	0.00067	U	0.00057	U	0.0004	U	0.00041	U	0.0005	U	0.00062	U	0.00026	U	0.00041	U	0.00059	U	0.0007	U	0.00046	U	0.0006	U
1,1,1-Trichloroethane	71-55-6	mg/kg	0.68	100	500	0.68	0.0006	U	0.00049	U	0.031	U	-		0.00053	U	0.00042	U	0.00067	U	0.00057	U	0.0004	U	0.00041	U	0.0005	U	0.00062	U	0.00026	U	0.00041	U	0.00059	U	0.0007	U	0.00046	U	0.0006	U
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	NS	NS	NS	NS	0.0006	U	0.00049	U	0.031	U	-		0.00053	U	0.00042	U	0.00067	U	0.00057	U	0.0004	U	0.00041	U	0.0005	U	0.00062	U	0.00026	U	0.00041	U	0.00059	U	0.0007	U	0.00046	U	0.0006	U
1,1,2-Trichloroethane	79-00-5	mg/kg	NS	NS	NS	NS	0.0012	U	0.00098	U	0.062	U	-		0.0011	U	0.00084	U	0.0013	U	0.0011	U	0.00079	U	0.00081	U	0.001	U	0.0012	U	0.00052	U	0.00082	U	0.0012	U	0.0014	U	0.00092	U	0.0012	U
1,1-Dichloroethane	75-34-3	mg/kg	0.27	47	240	0.27	0.0012	U	0.00098	U	0.062	U	-		0.0011	U	0.00084	U	0.0013	U	0.0011	U	0.00079	U	0.00081	U	0.001	U	0.0012	U	0.00052	U	0.00082	U	0.0012	U	0.0014	U	0.00092	U	0.0012	U
1,1-Dichloroethene	75-35-4	mg/kg	0.24	0.98	5.1	0.33	0.0012	U	0.00098	U	0.062	U	-		0.0011	U	0.00084	U	0.0013	U	0.0011	U	0.00079	U	0.00081	U	0.001	U	0.0012	U	0.00052	U	0.00082	U	0.0012	U	0.0014	U	0.00092	U	0.0012	U
1,1-Dichloropropene	563-58-6	mg/kg	NS	NS	NS	NS	0.0006	U	0.00049	U	0.031	U	-		0.00053	U	0.00042	U	0.00067	U	0.00057	U	0.0004	U	0.00041	U	0.0005	U	0.00062	U	0.00026	U	0.00041	U	0.00059	U	0.0007	U	0.00046	U	0.0006	U
1,2,3-Trichlorobenzene	87-61-6	mg/kg	NS	NS	NS	NS	0.0024	U	0.002	U	0.12	U	-		0.0021	U	0.0017	U	0.0027	U	0.0023	U	0.0016	U	0.0016	U	0.002	U	0.0025	U	0.001	U	0.0016	U	0.0024	U	0.0028	U	0.0018	U	0.0024	U
1,2,3-Trichloropropane	96-18-4	mg/kg	NS	NS	NS	NS	0.0024	U	0.002	U	0.12	U	-		0.0021	U	0.0017	U	0.0027	U	0.0023	U	0.0016	U	0.0016	U	0.002	U	0.0025	U	0.001	U	0.0016	U	0.0024	U	0.0028	U	0.0018	U	0.0024	U
1,2,4,5-Tetramethylbenzene	95-93-2	mg/kg	NS	NS	NS	NS	0.0024	U	0.21		7.9		-		0.0021	U	0.0017	U	0.0027	U	0.0023	U	0.0016	U	0.0016	U	0.002	U	0.0025	U	0.001	U	0.0016	U	0.0024	U	0.0028	U	0.0018	U	0.0024	U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	NS	NS	NS	NS	0.0024	U	0.002	U	0.12	U	-		0.0021	U	0.0017	U	0.0027	U	0.0023	U	0.0016	U	0.0016	U	0.002	U	0.0025	U	0.001	U	0.0016	U	0.0024	U	0.0028	U	0.0018	U	0.0024	U
1,2,4-Trimethylbenzene	95-63-6	mg/kg	5.9	100	500	5.9	0.0024	U	0.0028		41		60	E	0.0021	U	0.0017	U	0.0027	U	0.0023	U	0.0016	U	0.0016	U	0.002	U	0.0025	U	0.001	U	0.0016	U	0.0024	U	0.0028	U	0.0018	U	0.0024	U
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	NS	NS	NS	NS	0.0036	U	0.003	U	0.18	U	-		0.0032	U	0.0025	U	0.004	U	0.0034	U	0.0024	U	0.0024	U	0.003	U	0.0037	U	0.0016	U	0.0025	U	0.0036	U	0.0042	U	0.0028	U	0.0036	U
1,2-Dibromoethane	106-93-4	mg/kg	NS	NS	NS	NS	0.0012	U	0.00098	U	0.062	U	-		0.0011	U	0.00084	U	0.0013	U	0.0011	U	0.00079	U	0.00081	U	0.001	U	0.0012	U	0.00052	U	0.00082	U	0.0012	U	0.0014	U	0.00092	U	0.0012	U
1,2-Dichlorobenzene	95-50-1	mg/kg	1.1	100	500	1.1	0.0024	U	0.00033	J	0.12	U	-		0.0021	U	0.0017	U	0.0027	U	0.0023	U	0.0016	U	0.0016	U	0.002	U	0.0025	U	0.001	U	0.0016	U	0.0024	U	0.0028	U	0.0018	U	0.0024	U
1,2-Dichloroethane	107-06-2	mg/kg	0.02	5.8	30	0.02	0.0012	U	0.00098	U	0.062	U	-		0.0011	U	0.00084	U	0.0013	U	0.0011	U	0.00079	U	0.00081	U	0.001	U	0.0012	U	0.00052	U	0.00082	U	0.0012	U	0.0014	U	0.00092	U	0.0012	U
1,2-Dichloroethene, Total	540-59-0	mg/kg	NS	NS	NS	NS	0.0012	U	0.00098	U	0.062	U	-		0.0011	U	0.00084	U	0.0013	U	0.0011	U	0.00079	U	0.00081	U	0.001	U	0.0012	U	0.00052	U	0.00082	U	0.0012	U	0.0014	U	0.00092	U	0.0012	U
1,2-Dichloropropane	78-87-5	mg/kg	NS	NS	NS	NS	0.0012	U	0.00098	U	0.062	U	-		0.0011	U	0.00084	U	0.0013	U	0.0011	U	0.00079	U	0.00081	U	0.001	U	0.0012	U	0.00052	U	0.00082	U	0.0012	U	0.0014	U	0.00092	U	0.0012	U
1,3,5-Trimethylbenzene	108-67-8	mg/kg	3.1	100	500	3.1	0.0024	U	0.0022		16		-		0.0021	U	0.0017	U	0.0027	U	0.0023	U	0.0016	U	0.0016	U	0.002	U	0.0025	U	0.001	U	0.0016	U	0.0024	U	0.0028	U	0.0018	U	0.0024	U
1,3-Dichlorobenzene	541-73-1	mg/kg	2.6	38	280	2.6	0.0024	U	0.002	U	0.12	U	-		0.0021	U	0.0017	U	0.0027	U	0.0023	U	0.0016	U	0.0016	U	0.002	U	0.0025	U	0.001	U	0.0016	U	0.0024	U	0.0028	U	0.0018	U	0.0024	U
1,3-Dichloropropane	142-28-9	mg/kg	NS	NS	NS	NS	0.0024	U	0.002	U	0.12	U	-		0.0021	U	0.0017	U	0.0027	U	0.0023	U	0.0016	U	0.0016	U	0.002	U	0.0025	U	0.001	U	0.0016	U	0.0024	U	0.0028	U	0.0018	U	0.0024	U
1,3-Dichloropropene, Total	542-75-6	mg/kg	NS	NS	NS	NS	0.0006	U	0.00049	U	0.031	U	-		0.00053	U	0.00042	U	0.00067	U	0.00057	U	0.0004	U	0.00041	U	0.0005	U	0.00062	U	0.00026	U	0.00041	U	0.00059	U	0.0007	U	0.00046	U	0.0006	U
1,4-Dichlorobenzene	106-46-7	mg/kg	1.8	24	130	1.8	0.0024	U	0.002	U	0.12	U	-		0.0021	U	0.0017	U	0.0027	U	0.0023	U	0.0016	U	0.0016	U	0.002	U	0.0025	U	0.001	U	0.0016	U	0.0024	U	0.0028	U	0.0018	U	0.0024	U
1,4-Dioxane	123-91-1	mg/kg	0.1	5.7	36	0.1	0.095	U	0.079	U	4.9	U	-		0.085	U	0.067	U	0.11	U	0.091	U	0.063	U	0.065	U	0.08	U	0.099	U	0.042	U	0.066	U	0.095	U	0.11	U	0.074	U	0.096	U
2,2-Dichloropropane	594-20-7	mg/kg	NS	NS	NS	NS	0.0024	U	0.002	U	0.12	U	-		0.0021	U	0.0017	U	0.0027	U	0.0023	U	0.0016	U	0.0016	U	0.002	U	0.0025	U	0.001	U	0.0016	U	0.0024	U	0.0028	U	0.0018	U	0.0024	U
2-Butanone (MEK)	78-93-3	mg/kg	0.1	100	500	0.1	0.012	U	0.0098	U	0.62	U	-		0.011	U	0.0084	U	0.013	U	0.011	U	0.0079	U	0.0081	U	0.01	U	0.012	U	0.0052	U	0.0082	U	0.012	U	0.014	U	0.0092	U	0.012	U
2-Hexanone	591-78-6	mg/kg	NS	NS	NS	NS	0.012	U	0.0098	U	0.62	U	-		0.011	U	0.0084	U	0.013	U	0.011	U	0.0079	U	0.0081	U	0.01	U	0.012	U	0.0052	U	0.0082	U	0.012	U	0.014	U	0.0092	U	0.012	U
4-Methyl-2-pentanone(MIBK)	108-10-1	mg/kg	NS	NS	NS	NS	0.012	U	0.0098	U	0.62	U	-		0.011	U	0.0084	U	0.013	U	0.011	U	0.0079	U	0.0081	U	0.01	U	0.012	U	0.0052	U	0.0082	U	0.012	U	0.014	U	0.0092	U	0.012	U
Acetone	67-64-1	mg/kg	0.03	100	500	0.03	0.012	U	0.0098	U	0.62	U	-		0.0067	J	0.0042	J	0.013	U	0.0087	J	0.0079	U	0.0081	U	0.01	U	0.0069	J	0.0032	U	0.0082	U	0.012	U	0.014	U	0.0092	U	0.012	U
Acrylonitrile	107-13-1	mg/kg	NS	NS	NS	NS	0.0048	U	0.0039	U	0.25	U	-		0.0043	U	0.0034	U	0.0054	U	0.0045	U	0.0032	U	0.0032	U	0.004	U	0.005	U	0.0021	U	0.0033	U	0.0048	U	0.0056	U	0.0037	U	0.0048	U
Benzene	71-43-2	mg/kg	0.06	3.7	20	0.06	0.0006	U	0.014		0.016	J	-		0.00053	U	0.00042	U	0.00067	U	0.00057	U	0.0004	U	0.00041	U	0.0005	U	0.00062	U	0.00026	U	0.00041	U	0.00059	U	0.0007	U	0.00046	U	0.0006	U
Bromobenzene	108-86-1	mg/kg	NS	NS	NS	NS	0.0024	U	0.002	U	0.12	U	-		0.0021	U	0.0017	U	0.0027	U	0.0023	U	0.0016	U	0.0016	U	0.002	U	0.0025	U	0.001	U	0.0016	U	0.0024	U	0.0028	U	0.0018	U	0.0024	U
Bromochloromethane	74-97-5	mg/kg	NS	NS	NS	NS	0.0024	U	0.002	U	0.12	U	-		0.0021	U	0.0017	U	0.0027	U	0.0023	U	0.0016	U	0.0016	U	0.002	U	0.0025	U	0.001	U	0.0016	U	0.0024	U	0.0028	U	0.0018	U	0.0024	U
Bromodichloromethane	75-27-4	mg/kg	NS	NS	NS	NS	0.0006	U	0.00049	U	0.031	U	-		0.00053	U	0.00042	U	0.00067	U	0.00057	U	0.0004	U	0.00041	U	0.0005	U	0.00062	U	0.00026	U	0.00041	U	0.00059	U	0.0007	U	0.00046	U	0.0006	U
Bromoform	75-25-2	mg/kg	NS	NS	NS	NS	0.0048	U	0.0039	U	0.25	U	-		0.0043	U	0.0034	U	0.0054	U	0.0045	U	0.0032	U	0.0032	U	0.004	U	0.005	U	0.0021	U	0.0033	U	0.0048	U	0.0056	U	0.0037	U	0.0048	U
Bromomethane	74-83-9	mg/kg	NS	NS	NS	NS	0.0024	U	0.002	U	0.12	U	-		0.0021	U	0.0017	U	0.0027	U	0.0023	U	0.0016	U	0.0016	U	0.002	U	0.0025	U	0.001	U	0.0016	U	0.0024	U	0.0028	U	0.0018	U	0.0024	U
Carbon disulfide	75-15-0	mg/kg	NS	NS	NS	NS	0.012	U	0.0098	U	0.62	U	-		0.011	U	0.0084	U	0.013	U	0.011	U	0.0079	U	0.0081	U	0.01	U	0.012	U	0.0052	U	0.0082	U	0.012	U	0.014	U	0.0092	U	0.012	U
Carbon tetrachloride	56-23-5	mg/kg	0.76	7.1	41	0.76	0.0012	U	0.00098	U	0.062	U	-		0.0011	U	0.00084	U	0.0013	U	0.0011	U	0.00079	U	0.00081	U	0.001	U	0.0012	U	0.00052	U	0.00082	U	0.0012	U	0.0014	U	0.00092	U	0.0012	U
Chlorobenzene	108-90-7	mg/kg	4.5	100	500	4.5	0.0006	U	0.00049	U	0.031	U	-		0.00053	U	0.00042	U	0.00067	U	0.00057	U	0.0004	U	0.00041	U	0.0005	U	0.00062	U	0.00026	U	0.00041	U	0.00059	U	0.0007	U	0.00046	U	0.0006	U
Chloroethane	75-00-3	mg/kg	NS	NS	NS	NS	0.0024	U	0.002	U	0.12	U	-		0.0021	U	0.0017	U	0.0027	U	0.0023	U	0.0016	U	0.0016	U	0.002	U	0.0025	U	0.001	U	0.0016	U	0.0024	U	0.0028	U	0.0018	U	0.0024	U
Chloroform	67-66-3	mg/kg	0.37	24	180	0.37	0.0018	U	0.0015	U	0.092	U	-		0.0016	U	0.0012	U	0.002	U	0.0017	U	0.0012	U	0.0012	U	0.0015	U	0.0019	U	0.00079	U	0.0012	U	0.0018	U	0.0021	U	0.0014	U	0.0018	U
Chloromethane	74-87-3	mg/kg	NS	NS	NS	NS	0.0048	U	0.0039	U	0.25	U	-		0.0043	U	0.0034	U	0.0054	U	0.0045	U	0.0032	U	0.0032	U	0.004	U	0.005	U	0.0021	U	0.0033	U	0.0048	U	0.0056	U	0.0037	U	0.0048	U
cis-1,2-Dichloroethene	156-59-2	mg/kg	0.19	41	500	0.19	0.0012	U	0.00098	U	0.062	U	-		0.0011	U	0.00084	U	0.0013	U	0.0011	U	0.00079	U	0.00081	U	0.001	U	0.0012	U	0.00052	U	0.00082	U	0.0012	U	0.0014	U	0.00092	U	0.0012	U
cis-1,3-Dichloropropene	10061-01-5	mg/kg	NS	NS	NS	NS	0.0006	U	0.00049	U	0.031	U	-		0.00053	U	0.00042	U	0.00067	U	0.00057	U	0.0004	U	0.00041	U	0.0005	U	0.00062	U	0.00026	U	0.00041	U	0.00059	U	0.0007	U	0.00046	U	0.0006	U
Cyclohexane	110-82-7	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Dibromochloromethane	124-48-1	mg/kg	NS	NS	NS	NS	0.0012	U	0.00098	U	0.062	U	-		0.0011	U	0.00084	U	0.0013	U	0.0011	U	0.00079	U	0.00081	U	0.001	U	0.0012	U	0.00052	U	0.00082	U	0.0012	U	0.0014	U	0.00092	U	0.0012	U
Dibromomethane	74-95-3	mg/kg	NS	NS	NS	NS	0.0024	U	0.002	U	0.12	U	-		0.0021	U	0.0017	U	0.0027	U	0.0023	U	0.0016	U	0.0016	U	0.002	U	0.0025	U	0.001	U	0.0016	U	0.0024	U	0.0028	U	0.0018	U	0.0024	U
Dichlorodifluoromethane	75-71-8	mg/kg	NS	NS	NS	NS	0.012	U	0.0098	U	0.62	U	-		0.011	U	0.0084	U	0.013	U	0.011	U	0.0079	U	0.0081	U	0.01	U	0.012	U	0.0052	U	0.0082	U	0.012	U	0.014	U	0.0092	U	0.012	U
Ethyl ether	60-29-7	mg/kg	NS	NS	NS	NS	0.0024	U	0.002	U	0.12	U	-		0.0021	U	0.0017	U	0.0027	U	0.0023	U	0.0016	U	0.0016	U	0.002	U	0.0025	U	0.001	U	0.0016	U	0.0024	U	0.0028	U	0.0018	U	0.0024	U
Ethylbenzene	100-41-4	mg/kg	1	76	390	1	0.0012	U	0.0022		13		-		0.0011	U	0.00084	U	0.0013	U	0.0011	U	0.00079	U	0.00081	U	0.001	U	0.0012	U	0.00052	U	0.00082	U	0.0012	U	0.0014	U	0.00092	U	0.0012	U
Freon 113	76-13-1	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Hexachlorobutadiene	87-68-3	mg/kg	NS	NS	NS	NS	0.0048	U	0.0039	U	0.25	U	-		0.0043	U	0.0034	U	0.0054	U	0.0045	U	0.0032	U	0.0032	U	0.004	U	0.005	U	0.0021	U	0.0033	U	0.0048	U	0.0056	U	0.0037	U	0.0048	U
Isopropylbenzene	98-82-8	mg/kg	NS	NS	NS	NS	0.0012	U	0.084		2.8		-		0.0011	U	0.00084	U	0.0013	U	0.0011	U	0.00079	U	0.00081	U	0.001	U	0.0012	U	0.00052	U	0.00082	U	0.0012	U	0.0014	U	0.00092	U	0.0012	U
m,p-Xylene	179601-23-1	mg/kg	NS	NS	NS	NS	0.0024	U	0.013		40		50	E	0.0021	U	0.0017	U	0.0027	U	0.0023	U	0.0016	U	0.0016	U	0.002	U	0.0025	U	0.001	U	0.0016	U	0.0024	U	0.0028	U	0.0018	U	0.0024	U
Methyl Acetate	79-20-9	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Methyl Tert Butyl Ether	1634-04-4	mg/kg	0.1	100	500	0.1	0.0024	U	0.002	U	0.12	U	-		0.0021	U	0.0017	U	0.0027	U	0.0023	U	0.0016	U	0.0016	U	0.002	U	0.0025	U	0.001	U	0.0016	U	0.0024	U	0.0028	U	0.0018	U	0.0024	U
Methylcyclohexane	108-87-2	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Methylene chloride	75-09-2	mg/kg	0.05	81	500	0.05	0.006	U	0.0049	U	0.31	U	-		0.0053	U	0.0042	U	0.0067	U	0.0057	U	0.004	U	0.0041	U	0.005	U	0.0062	U	0.0026	U	0.0041	U	0.0059	U	0.007	U	0.0046	U	0.006	U
Naphthalene	91-20-3	mg/kg	12	100	500	12	0.0048	U	0.0046		9.2		-		0.0043	U	0.0034	U	0.0054	U	0.0045	U	0.0032	U	0.0032	U	0.004	U	0.005	U	0.0021	U	0.0033	U	0.0048	U	0.0056	U	0.0037	U	0.0048	U
n-Butylbenzene	104-51-8	mg/kg	18	100	500	18	0.0012	U	0.075		4.1		-		0.0011	U	0.00084	U	0.0013	U	0.0011	U	0.00079	U	0.00081	U	0.001	U	0.0012	U	0.00052	U	0.00082	U	0.0012	U	0.0014	U	0.00092	U	0.0012	U
n-Propylbenzene	103-65-1	mg/kg	5	100	500	5	0.0012	U	0.19		9.6		-		0.0011	U	0.00084	U	0.0013	U	0.0011	U	0.00079	U	0.00081	U	0.001	U	0.0012	U	0.00052	U	0.00082	U	0.0012	U	0.0014	U	0.00092	U	0.0012	U
o-Chlorotoluene	95-49-8	mg/kg	NS	NS	NS	NS	0.0024	U	0.002	U	0.12	U	-		0.0021	U	0.0017	U	0.0027	U	0.0023	U	0.0016	U	0.0016	U	0.002	U	0.0025	U	0.001	U	0.0016	U	0.0024	U	0.0028	U	0.0018	U	0.0024	U
o-Xylene	95-47-6	mg/kg	NS	NS	NS	NS	0.0012	U	0.0055		12		-		0.0011	U	0.00084	U	0.0013	U	0.0011	U	0.00079	U	0.00081	U	0.001	U	0.0012	U	0.00052	U	0.00082	U	0.0012	U	0.0014	U	0.00092	U	0.0012	U
p-Chlorotoluene	106-43-4	mg/kg	NS	NS	NS	NS	0.0024	U	0.002	U	0.12	U	-		0.0021	U	0.0017	U	0.0027	U	0.0023	U	0.0016	U	0.0016	U	0.002	U	0.0025	U	0.001	U	0.0016	U	0.0024	U	0.0028	U	0.0018	U	0.0024	U
p-Diethylbenzene	105-05-5	mg/kg	NS	NS	NS	NS	0.0024	U	0.056		2.9		-		0.0021	U	0.0017	U	0.0027	U	0.0023	U	0.0016	U	0.0016	U	0.002	U	0.0025	U	0.001	U	0.0016	U	0.0024	U	0.0028	U	0.0018	U	0.0024	U
p-Ethyltoluene	622-96-8	mg/kg	NS	NS	NS	NS	0.0024	U	0.0057		31		43	E	0.0021	U	0.0017	U	0.0027	U	0.0023	U	0.0016	U	0.0016	U	0.002	U	0.0025	U	0.001	U	0.0016	U	0.0024	U	0.0028	U	0.0018	U	0.0024	U
p-Isopropyltoluene	99-87-6	mg/kg	NS	NS	NS	NS	0.0012	U	0.00047	J	1.1		-		0.0011	U	0.00084	U	0.0013	U	0.0011	U	0.00079	U	0.00081	U	0.001	U	0.0012	U	0.00052	U	0.00082	U	0.0012	U	0.0014	U	0.00092	U	0.0012	U
sec-Butylbenzene	135-98-8	mg/kg	25	100	500	25	0.0012	U	0.039		1.5		-		0.0011	U	0.00084	U	0.0013	U	0.0011	U	0.00079	U	0.00081	U	0.001	U	0.0012	U	0.00052	U	0.00082	U	0.0012	U	0.0014	U	0.00092	U	0.0012	U
Styrene	100-42-5	mg/kg	NS	NS	NS	NS	0.00069	J	0.00075	J	0.062	U	-		0.0011	U	0.00084	U	0.00079	J	0.0011	U	0.00044	J	0.00081	U	0.00058	J	0.0012	U	0.00052	U	0.00048	J	0.0012	U	0.0014	U	0.00092	U	0.0012	U
tert-Butylbenzene	98-06-6	mg/kg	11	100	500	11	0.0024	U	0.0042		0.11	J	-		0.0021	U	0.0017	U	0.0027	U	0.0023	U	0.0016	U	0.0016	U	0.002	U	0.0025	U	0.001	U	0.0016	U	0.0024	U	0.0028	U	0.0018	U	0.0024	U
Tetrachloroethene	127-18-4	mg/kg	1.3	18	81	1.3	0.0006	U	0.00049	U	0.031	U	-		0.00053	U	0.00042	U	0.00067	U	0.00057	U	0.0004	U	0.00041	U	0.0005	U	0.00062	U	0.00026	U	0.00041	U	0.00059	U	0.0007	U	0.00046	U	0.0006	U
Toluene	108-88-3	mg/kg	0.7	100	500	0.7	0.00068	J	0.0039	U	0.26		-		0.0011	U	0.00084	U	0.0013	U	0.0011	U	0.00079	U	0.00081	U	0.001	U	0.0012	U	0.00052	U	0.00082	U	0.0012	U	0.0014	U	0.00092	U	0.0012	U
trans-1,2-Dichloroethene	156-60-5	mg/kg	0.19	100	500	0.19	0.0018	U	0.0015	U	0.092	U	-		0.0016	U	0.0012	U	0.002	U	0.0017	U	0.0012	U	0.0012	U	0.0015	U	0.0019	U	0.00079	U	0.0012	U	0.0018	U	0.0021	U	0.0014	U	0.0018	U
trans-1,3-Dichloropropene	10061-02-6	mg/kg	NS	NS	NS	NS	0.0012	U	0.00098	U	0.062	U	-		0.0011	U	0.00084	U	0.0013	U	0.0011	U	0.00079	U	0.00081	U	0.001	U	0.0012	U	0.00052	U	0.00082	U	0.0012	U	0.0014	U	0.00092	U	0.0012	U
trans-1,4-Dichloro-2-butene	110-57-6	mg/kg	NS	NS	NS	NS	0.006	U	0.0049	U	0.31	U	-		0.0053	U	0.0042	U	0.0067	U	0.0057	U	0.004	U	0.0041	U	0.005	U	0.0062	U	0.0026	U	0.0041	U	0.0059	U	0.007	U	0.0046	U	0.006	U
Trichloroethene	79-01-6	mg/kg	0.47	6.4	54	0.47	0.0006	U	0.00049	U	0.031	U	-		0.00053	U	0.00042	U	0.00067	U	0.00057	U	0.0004	U	0.00041	U	0.0005	U	0.00062	U	0.00026	U	0.00041	U	0.00059	U	0.0007	U	0.00046	U	0.0006	U
Trichlorofluoromethane	75-69-4	mg/kg	NS	NS	NS	NS	0.0048	U	0.0039	U	0.25	U	-		0.0043	U	0.0034	U	0.0054	U	0.0045	U	0.0032	U	0.0032	U	0.004	U	0.005	U	0.0021	U	0.0033	U	0.0048	U	0.0056	U	0.0037	U	0.0048	U
Vinyl acetate	108-05-4	mg/kg	NS	NS	NS	NS	0.012	U	0.0098	U	0.62	U	-		0.011	U	0.0084	U	0.013	U	0.011	U	0.0079	U	0.0081	U	0.01	U	0.

TABLE 5.1 A
SUMMARY OF SOIL SAMPLING RESULTS—VOCs

SAMPLE ID:							SB-11 (16.0-16.5)		SB-12 (1.5-2.0)		SB-12 (5.5-6.0)		SB-12 (13.0-13.5)		SB-12 (18.0-18.5)		SB-13 (5.0-5.5)		SB-14 (3.5-4.0)		SB-15 (2.5-3.0)		SB-15 (6.0-6.5)		SB-15 (12.0-12.5)		SB-15 (16.5-17.0)		SB-16 (2.0-2.5)		SB-16 (5.0-5.5)		SB-17 (3.0-3.5)		SB-18 (2.0-2.5)		SB-18 (6.5-7.0)		SB-19 (2.5-3.0)		SB-20 (3.0-3.5)	
LAB SAMPLE ID:							L2542560-05		L2542560-06		L2544282-13		L2544282-14		L2544282-15		L2542974-01		L2542974-02		L2544282-10		L2542974-03		L2544282-11		L2544282-12		L2542974-04		L2543726-04		L2542974-05		L2543250-01		L2543726-05		L2543250-02		L2543250-03	
SAMPLE DATE:							7/8/2025		7/8/2025		7/15/2025		7/15/2025		7/15/2025		7/9/2025		7/9/2025		7/15/2025		7/9/2025		7/15/2025		7/15/2025		7/9/2025		7/11/2025		7/9/2025		7/10/2025		7/11/2025		7/10/2025		7/10/2025	
MATRIX:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
VOCs (SW846 8260D)																																											
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	NS	NS	NS	NS	0.00053	U	0.00057	U	0.0006	U	0.00044	U	0.00044	U	0.00057	U	0.00066	U	0.00042	U	0.00068	U	0.00055	U	0.00056	U	0.00048	U	0.00051	U	0.0047	U	0.00056	U	0.00046	U	0.00044	U	0.00053	U
1,1,1-Trichloroethane	71-55-6	mg/kg	0.68	100	500	0.68	0.00053	U	0.00057	U	0.0006	U	0.00044	U	0.00044	U	0.00057	U	0.00066	U	0.00042	U	0.00068	U	0.00055	U	0.00056	U	0.00048	U	0.00051	U	0.0047	U	0.00056	U	0.00046	U	0.00044	U	0.00053	U
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	NS	NS	NS	NS	0.00053	U	0.00057	U	0.0006	U	0.00044	U	0.00044	U	0.00057	U	0.00066	U	0.00042	U	0.00068	U	0.00055	U	0.00056	U	0.00048	U	0.00051	U	0.0047	U	0.00056	U	0.00046	U	0.00044	U	0.00053	U
1,1,2-Trichloroethane	79-00-5	mg/kg	NS	NS	NS	NS	0.001	U	0.0011	U	0.0012	U	0.00087	U	0.00088	U	0.0011	U	0.0013	U	0.00084	U	0.0014	U	0.0011	U	0.0011	U	0.00096	U	0.001	U	0.0094	U	0.0011	U	0.00091	U	0.00088	U	0.001	U
1,1-Dichloroethane	75-34-3	mg/kg	0.27	47	240	0.27	0.001	U	0.0011	U	0.0012	U	0.00087	U	0.00088	U	0.0011	U	0.0013	U	0.00084	U	0.0014	U	0.0011	U	0.0011	U	0.00096	U	0.001	U	0.0094	U	0.0011	U	0.00091	U	0.00088	U	0.001	U
1,1-Dichloroethene	75-35-4	mg/kg	0.24	0.98	5.1	0.33	0.001	U	0.0011	U	0.0012	U	0.00087	U	0.00088	U	0.0011	U	0.0013	U	0.00084	U	0.0014	U	0.0011	U	0.0011	U	0.00096	U	0.001	U	0.0094	U	0.0011	U	0.00091	U	0.00088	U	0.001	U
1,1-Dichloropropene	563-58-6	mg/kg	NS	NS	NS	NS	0.00053	U	0.00057	U	0.0006	U	0.00044	U	0.00044	U	0.00057	U	0.00066	U	0.00042	U	0.00068	U	0.00055	U	0.00056	U	0.00048	U	0.00051	U	0.0047	U	0.00056	U	0.00046	U	0.00044	U	0.00053	U
1,2,3-Trichlorobenzene	87-61-6	mg/kg	NS	NS	NS	NS	0.0021	U	0.0023	U	0.0024	U	0.0017	U	0.0018	U	0.0023	U	0.0026	U	0.0017	U	0.0027	U	0.0022	U	0.0022	U	0.0019	U	0.002	U	0.0019	U	0.0022	U	0.0018	U	0.0018	U	0.0021	U
1,2,3-Trichloropropane	96-18-4	mg/kg	NS	NS	NS	NS	0.0021	U	0.0023	U	0.0024	U	0.0017	U	0.0018	U	0.0023	U	0.0026	U	0.0017	U	0.0027	U	0.0022	U	0.0022	U	0.0019	U	0.002	U	0.0019	U	0.0022	U	0.0018	U	0.0018	U	0.0021	U
1,2,4,5-Tetramethylbenzene	95-93-2	mg/kg	NS	NS	NS	NS	0.15		0.00065	J	0.0024	U	0.0017	U	0.0018	U	0.0023	U	0.0026	U	0.0017	U	0.0027	U	0.0022	U	0.0022	U	0.0019	U	0.002	U	0.0019	U	0.23		0.00018	J	0.00024	J	0.0021	U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	NS	NS	NS	NS	0.0021	U	0.0023	U	0.0024	U	0.0017	U	0.0018	U	0.0023	U	0.0026	U	0.0017	U	0.0027	U	0.0022	U	0.0022	U	0.0019	U	0.002	U	0.0019	U	0.0022	U	0.0018	U	0.0018	U	0.0021	U
1,2,4-Trimethylbenzene	95-63-6	mg/kg	5.9	100	500	5.9	0.0021	U	0.0023	U	0.0024	U	0.0017	U	0.0018	U	0.0023	U	0.0026	U	0.0017	U	0.0027	U	0.0022	U	0.0022	U	0.0019	U	0.002	U	0.0019	U	0.00063	J	0.0018	U	0.0018	U	0.0021	U
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	NS	NS	NS	NS	0.0032	U	0.0034	U	0.0036	U	0.0026	U	0.0026	U	0.0034	U	0.004	U	0.0025	U	0.0041	U	0.0033	U	0.0034	U	0.0029	U	0.003	U	0.0028	U	0.0034	U	0.0027	U	0.0026	U	0.0032	U
1,2-Dibromoethane	106-93-4	mg/kg	NS	NS	NS	NS	0.001	U	0.0011	U	0.0012	U	0.00087	U	0.00088	U	0.0011	U	0.0013	U	0.00084	U	0.0014	U	0.0011	U	0.0011	U	0.00096	U	0.001	U	0.00094	U	0.0011	U	0.00091	U	0.00088	U	0.001	U
1,2-Dichlorobenzene	95-50-1	mg/kg	1.1	100	500	1.1	0.0021	U	0.0023	U	0.0024	U	0.0017	U	0.0018	U	0.0023	U	0.0026	U	0.0017	U	0.0027	U	0.0022	U	0.0022	U	0.0019	U	0.002	U	0.0019	U	0.0022	U	0.0018	U	0.0018	U	0.0021	U
1,2-Dichloroethane	107-06-2	mg/kg	0.02	5.8	30	0.02	0.001	U	0.0011	U	0.0012	U	0.00087	U	0.00088	U	0.0011	U	0.0013	U	0.00084	U	0.0014	U	0.0011	U	0.0011	U	0.00096	U	0.001	U	0.00094	U	0.0011	U	0.00091	U	0.00088	U	0.001	U
1,2-Dichloroethene, Total	540-59-0	mg/kg	NS	NS	NS	NS	0.001	U	0.0011	U	0.0012	U	0.00087	U	0.00088	U	0.0011	U	0.0013	U	0.00084	U	0.0014	U	0.0011	U	0.0011	U	0.00096	U	0.001	U	0.00094	U	0.0011	U	0.00091	U	0.00088	U	0.001	U
1,2-Dichloropropane	78-87-5	mg/kg	NS	NS	NS	NS	0.001	U	0.0011	U	0.0012	U	0.00087	U	0.00088	U	0.0011	U	0.0013	U	0.00084	U	0.0014	U	0.0011	U	0.0011	U	0.00096	U	0.001	U	0.00094	U	0.0011	U	0.00091	U	0.00088	U	0.001	U
1,3,5-Trimethylbenzene	108-67-8	mg/kg	3.1	100	500	3.1	0.0021	U	0.0023	U	0.0024	U	0.0017	U	0.0018	U	0.0023	U	0.0026	U	0.0017	U	0.0027	U	0.0022	U	0.0022	U	0.0019	U	0.002	U	0.0019	U	0.0022	U	0.0018	U	0.0018	U	0.0021	U
1,3-Dichlorobenzene	541-73-1	mg/kg	2.6	38	280	2.6	0.0021	U	0.0023	U	0.0024	U	0.0017	U	0.0018	U	0.0023	U	0.0026	U	0.0017	U	0.0027	U	0.0022	U	0.0022	U	0.0019	U	0.002	U	0.0019	U	0.0022	U	0.0018	U	0.0018	U	0.0021	U
1,3-Dichloropropane	142-28-9	mg/kg	NS	NS	NS	NS	0.0021	U	0.0023	U	0.0024	U	0.0017	U	0.0018	U	0.0023	U	0.0026	U	0.0017	U	0.0027	U	0.0022	U	0.0022	U	0.0019	U	0.002	U	0.0019	U	0.0022	U	0.0018	U	0.0018	U	0.0021	U
1,3-Dichloropropene, Total	542-75-6	mg/kg	NS	NS	NS	NS	0.00053	U	0.00057	U	0.0006	U	0.00044	U	0.00044	U	0.00057	U	0.00066	U	0.00042	U	0.00068	U	0.00055	U	0.00056	U	0.00048	U	0.00051	U	0.0047	U	0.00056	U	0.00046	U	0.00044	U	0.00053	U
1,4-Dichlorobenzene	106-46-7	mg/kg	1.8	24	130	1.8	0.0021	U	0.0023	U	0.0024	U	0.0017	U	0.0018	U	0.0023	U	0.0026	U	0.0017	U	0.0027	U	0.0022	U	0.0022	U	0.0019	U	0.002	U	0.0019	U	0.0022	U	0.0018	U	0.0018	U	0.0021	U
1,4-Dioxane	123-91-1	mg/kg	0.1	5.7	36	0.1	0.084	U	0.091	U	0.096	U	0.07	U	0.07	U	0.092	U	0.1	U	0.067	U	0.11	U	0.088	U	0.09	U	0.077	U	0.082	U	0.075	U	0.09	U	0.073	U	0.07	U	0.084	U
2,2-Dichloropropane	594-20-7	mg/kg	NS	NS	NS	NS	0.0021	U	0.0023	U	0.0024	U	0.0017	U	0.0018	U	0.0023	U	0.0026	U	0.0017	U	0.0027	U	0.0022	U	0.0022	U	0.0019	U	0.002	U	0.0019	U	0.0022	U	0.0018	U	0.0018	U	0.0021	U
2-Butanone (MEK)	78-93-3	mg/kg	0.1	100	500	0.1	0.01	U	0.011	U	0.012	U	0.0087	U	0.0088	U	0.011		0.013	U	0.0084	U	0.014	U	0.011	U	0.011	U	0.0096	U	0.01	U	0.0094	U	0.011	U	0.0091	U	0.0088	U	0.01	U
2-Hexanone	591-78-6	mg/kg	NS	NS	NS	NS	0.01	U	0.011	U	0.012	U	0.0087	U	0.0088	U	0.011	U	0.013	U	0.0084	U	0.014	U	0.011	U	0.011	U	0.0096	U	0.01	U	0.0094	U	0.011	U	0.0091	U	0.0088	U	0.01	U
4-Methyl-2-pentanone(MIBK)	108-10-1	mg/kg	NS	NS	NS	NS	0.01	U	0.011	U	0.012	U	0.0087	U	0.0088	U	0.011	U	0.013	U	0.0084	U	0.014	U	0.011	U	0.011	U	0.0096	U	0.01	U	0.0094	U	0.011	U	0.0091	U	0.0088	U	0.01	U
Acetone	67-64-1	mg/kg	0.03	100	500	0.03	0.025		0.011	U	0.012	U	0.0087	U	0.0088	U	4.6		0.024		0.0084	U	0.012	J	0.011	U	0.011	U	0.0096	U	0.01	U	0.0094	U	0.024		0.0054	J	0.005	J	0.0063	J
Acrylonitrile	107-13-1	mg/kg	NS	NS	NS	NS	0.0042	U	0.0046	U	0.0048	U	0.0035	U	0.0035	U	0.0046	U	0.0053	U	0.0034	U	0.0054	U	0.0044	U	0.0045	U	0.0038	U	0.0041	U	0.0037	U	0.0045	U	0.0036	U	0.0035	U	0.0042	U
Benzene	71-43-2	mg/kg	0.06	3.7	20	0.06	0.00053	U	0.00057	U	0.0006	U	0.00044	U	0.00044	U	0.0014		0.00066	U	0.00042	U	0.00068	U	0.00055	U	0.00056	U	0.00048	U	0.00051	U	0.0047	U	0.00056	U	0.00046	U	0.00044	U	0.00053	U
Bromobenzene	108-86-1	mg/kg	NS	NS	NS	NS	0.0021	U	0.0023	U	0.0024	U	0.0017	U	0.0018	U	0.0023	U	0.0026	U	0.0017	U	0.0027	U	0.0022	U	0.0022	U	0.0019	U	0.002	U	0.0019	U	0.0022	U	0.0018	U	0.0018	U	0.0021	U
Bromochloromethane	74-97-5	mg/kg	NS	NS	NS	NS	0.0021	U	0.0023	U	0.0024	U	0.0017	U	0.0018	U	0.0023	U	0.0026	U	0.0017	U	0.0027	U	0.0022	U	0.0022	U	0.0019	U	0.002	U	0.0019	U	0.0022	U	0.0018	U	0.0018	U	0.0021	U
Bromodichloromethane	75-27-4	mg/kg	NS	NS	NS	NS	0.00053	U	0.00057	U	0.0006	U	0.00044	U	0.00044	U	0.00057	U	0.00066	U	0.00042	U	0.00068	U	0.00055	U	0.00056	U	0.00048	U	0.00051	U	0.0047	U	0.00056	U	0.00046	U	0.00044	U	0.00053	U
Bromoform	75-25-2	mg/kg	NS	NS	NS	NS	0.0042	U	0.0046	U	0.0048	U	0.0035	U	0.0035	U	0.0046	U	0.0053	U	0.0034	U	0.0054	U	0.0044	U	0.0045	U	0.0038	U	0.0041	U	0.0037	U	0.0045	U	0.0036	U	0.0035	U	0.0042	U
Bromomethane	74-83-9	mg/kg	NS	NS	NS	NS	0.0021	U	0.0023	U	0.0024	U	0.0017	U	0.0018	U	0.0023	U	0.0026	U	0.0017	U	0.0027	U	0.0022	U	0.0022	U	0.0019	U	0.002	U	0.0019	U	0.0022	U	0.0018	U	0.0018	U	0.0021	U
Carbon disulfide	75-15-0	mg/kg	NS	NS	NS	NS	0.01	U	0.011	U	0.012	U	0.0087	U	0.0088	U	0.011	U	0.013	U	0.0084	U	0.014	U	0.011	U	0.011	U	0.0096	U	0.01	U	0.0094	U	0.011	U	0.0091	U	0.0088	U	0.01	U
Carbon tetrachloride	56-23-5	mg/kg	0.76	7.1	41	0.76	0.001	U	0.0011	U	0.0012	U	0.00087	U	0.00088	U	0.0011	U	0.0013	U	0.00084	U	0.0014	U	0.0011	U	0.0011	U	0.00096	U	0.001	U	0.00094	U	0.0011	U	0.00091	U	0.00088	U	0.001	U
Chlorobenzene	108-90-7	mg/kg	4.5	100	500	4.5	0.00053	U	0.00057	U	0.0006	U	0.00044	U	0.00044	U	0.00057	U	0.00066	U	0.00042	U	0.00068	U	0.00055	U	0.00056	U	0.00048	U	0.00051	U	0.0047	U	0.00056	U	0.00046	U	0.00044	U	0.00053	U
Chloroethane	75-00-3	mg/kg	NS	NS	NS	NS	0.0021	U	0.0023	U	0.0024	U	0.0017	U	0.0018	U	0.0023	U	0.0026	U	0.0017	U	0.0027	U	0.0022	U	0.0022	U	0.0019	U	0.002	U	0.0019	U	0.0022	U	0.0018	U	0.0018	U	0.0021	U
Chloroform	67-66-3	mg/kg	0.37	24	180	0.37	0.0016	U	0.0017	U	0.0018	U	0.00017	J	0.0013	U	0.0017	U	0.002	U	0.0013	U	0.002	U	0.0016	U	0.0017	U	0.0014	U	0.0015	U	0.0014	U	0.0017	U	0.0014	U	0.0013	U	0.00016	J
Chloromethane	74-87-3	mg/kg	NS	NS	NS	NS	0.0042	U	0.0046	U	0.0048	U	0.0035	U	0.0035	U	0.0046	U	0.0053	U	0.0034	U	0.0054	U	0.0044	U	0.0045	U	0.0038	U	0.0041	U	0.0037	U	0.0045	U	0.0036	U	0.0035	U	0.0042	U
cis-1,2-Dichloroethene	156-59-2	mg/kg	0.19	41	500	0.19	0.001	U	0.0011	U	0.0012	U	0.00087	U	0.00088	U	0.0011	U	0.0013	U	0.00084	U	0.0014	U	0.0011	U	0.0011	U	0.00096	U	0.001	U	0.00094	U	0.0011	U	0.00091	U	0.00088	U	0.001	U
cis-1,3-Dichloropropene	10061-01-5	mg/kg	NS	NS	NS	NS	0.00053	U	0.00057	U	0.0006	U	0.00044	U	0.00044	U	0.00057	U	0.00066	U	0.00042	U	0.00068	U	0.00055	U	0.00056	U	0.00048	U	0.00051	U	0.0047	U	0.00056	U	0.00046	U	0.00044	U	0.00053	U
Cyclohexane	110-82-7	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Dibromochloromethane	124-48-1	mg/kg	NS	NS	NS	NS	0.001	U	0.0011	U	0.0012	U	0.00087	U	0.00088	U	0.0011	U	0.0013	U	0.00084	U	0.0014	U	0.0011	U	0.0011	U	0.00096	U	0.001	U	0.00094	U	0.0011	U	0.00091	U	0.00088	U	0.001	U
Dibromomethane	74-95-3	mg/kg	NS	NS	NS	NS	0.0021	U	0.0023	U	0.0024	U	0.0017	U	0.0018	U	0.0023	U	0.0026	U	0.0017	U	0.0027	U	0.0022	U	0.0022	U	0.0019	U	0.002	U	0.0019	U	0.0022	U	0.0018	U	0.0018	U	0.0021	U
Dichlorodifluoromethane	75-71-8	mg/kg	NS	NS	NS	NS	0.01	U	0.011	U	0.012	U	0.0087	U	0.0088	U	0.011	U	0.013	U	0.0084	U	0.014	U	0.011	U	0.011	U	0.0096	U	0.01	U	0.0094	U	0.011	U	0.0091	U	0.0088	U	0.01	U
Ethyl ether	60-29-7	mg/kg	NS	NS	NS	NS	0.0021	U	0.0023	U	0.0024	U	0.0017	U	0.0018	U	0.0023	U	0.0026	U	0.0017	U	0.0027	U	0.0022	U	0.0022	U	0.0019	U	0.00038	J	0.0019	U	0.0022	U	0.00032	J	0.0018	U	0.0021	U
Ethylbenzene	100-41-4	mg/kg	1	76	390	1	0.00048	J	0.0011	U	0.0012	U	0.00087	U	0.00088	U	0.0011	U	0.0013	U	0.00084	U	0.0014	U	0.0011	U	0.0011	U	0.00096	U	0.001	U	0.00094	U	0.0096		0.00091	U	0.00088	U	0.001	U
Freon 113	76-13-1	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Hexachlorobutadiene	87-68-3	mg/kg	NS	NS	NS	NS	0.0042	U	0.0046	U	0.0048	U	0.0035	U	0.0035	U	0.0046	U	0.0053	U	0.0034	U	0.0054	U	0.0044	U	0.0045	U	0.0038	U	0.0041	U	0.0037	U	0.0045	U	0.0036	U	0.0035	U	0.0042	U
Isopropylbenzene	98-82-8	mg/kg	NS	NS	NS	NS	0.034		0.0011	U	0.0012	U	0.00087	U	0.00088	U	0.0011	U	0.0013	U	0.00084	U	0.0014	U	0.0011	U	0.0011	U	0.00096	U	0.001	U	0.00094	U	0.044		0.00091	U	0.00088	U	0.001	U
m,p-Xylene	179601-23-1	mg/kg	NS	NS	NS	NS	0.00092	J	0.0023	U	0.0024	U	0.0017	U	0.0018	U	0.0023	U	0.0026	U	0.0017	U	0.0027	U	0.0022	U	0.0022	U	0.0019	U	0.002	U	0.0019	U	0.0022	U	0.0018	U	0.0018	U	0.0021	U
Methyl Acetate	79-20-9	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Methyl Tert Butyl Ether	1634-04-4	mg/kg	0.1	100	500	0.1	0.0021	U	0.0023	U	0.0024	U	0.0017	U	0.0018	U	0.0023	U	0.0026	U	0.0017	U	0.0027	U	0.0022	U	0.0022	U	0.0019	U	0.002	U	0.0019	U	0.0022	U	0.0018	U	0.0018	U	0.0021	U
Methylcyclohexane	108-87-2	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Methylene chloride	75-09-2	mg/kg	0.05	81	500	0.05	0.0053	U	0.0057	U	0.006	U	0.0044	U	0.0044	U	0.0057	U	0.0066	U	0.0042	U	0.0068	U	0.0055	U	0.0056	U	0.0048	U	0.0051	U	0.0047	U	0.0056	U	0.0046	U	0.0044	U	0.0053	U
Naphthalene	91-20-3	mg/kg	12	100	500	12	0.00092	J	0.0046	U	0.0048	U	0.0035	U	0.0035	U	0.0046	U	0.0053	U	0.0034	U	0.0054	U	0.0044	U	0.0045	U	0.0038	U	0.0041	U	0.0037	U	0.0064		0.0036	U	0.0035	U	0.0042	U
n-Butylbenzene	104-51-8	mg/kg	18	100	500	18	0.059		0.00022	J	0.0012	U	0.00087	U	0.00088	U	0.0011	U	0.0013	U	0.00084	U	0.0014	U	0.0011	U	0.0011	U	0.00096	U	0.001	U	0.00094	U	0.11		0.00091	U	0.00088	U	0.001	U
n-Propylbenzene	103-65-1	mg/kg	5	100	500	5	0.16		0.00029	J	0.0012	U	0.00087	U	0.00088	U	0.0011	U	0.0013	U	0.00084	U	0.0014	U	0.0011	U	0.0011	U	0.00096	U	0.001	U	0.00094	U	0.094		0.00091	U	0.00088	U	0.001	U
o-Chlorotoluene	95-49-8	mg/kg	NS	NS	NS	NS	0.0021	U	0.0023	U	0.0024	U	0.0017	U	0.0018	U	0.0023	U	0.0026	U	0.0017	U	0.0027	U	0.0022	U	0.0022	U	0.0019	U	0.002	U	0.0019	U	0.0022	U	0.0018	U	0.0018	U	0.0021	U
o-Xylene	95-47-6	mg/kg	NS	NS	NS	NS	0.001	U	0.0011	U	0.0012	U	0.00087	U	0.00088	U	0.0011	U	0.0013	U	0.00084	U	0.0014	U	0.0011	U	0.0011	U	0.00096	U	0.001	U	0.00094	U	0.001	J	0.00091	U	0.00088	U	0.001	U
p-Chlorotoluene	106-43-4	mg/kg	NS	NS	NS	NS	0.0021	U	0.0023	U	0.0024	U	0.0017	U	0.0018	U	0.0023	U	0.0026	U	0.0017	U	0.0027	U	0.0022	U	0.0022	U	0.0019	U	0.002	U	0.0019	U	0.0022	U	0.0018	U	0.0018	U	0.0021	U
p-Diethylbenzene	105-05-5	mg/kg	NS	NS	NS	NS	0.054		0.0002	J	0.0024	U	0.0017	U	0.0018	U	0.0023	U	0.0026	U	0.0017	U	0.0027	U	0.0022	U	0.0022	U	0.0019	U	0.002	U	0.0019	U	0.092		0.0018	U	0.0018	U	0.0021	U
p-Ethyltoluene	622-96-8	mg/kg	NS	NS	NS	NS	0.00076	J	0.0023	U	0.0024	U	0.0017	U	0.0018	U	0.0023	U	0.0026	U	0.0017	U	0.0027	U	0.0022	U	0.0022	U	0.0019	U	0.002	U	0.0019	U	0.0044		0.0018	U	0.0018	U	0.0021	U
p-Isopropyltoluene	99-87-6	mg/kg	NS	NS	NS	NS	0.0045		0.0011	U	0.0012	U	0.00087	U	0.00088	U	0.0011	U	0.0013	U	0.00084	U	0.0014	U	0.0011	U	0.0011	U	0.00096	U	0.001	U	0.00094	U	0.0013		0.00091	U	0.00088	U	0.001	U
sec-Butylbenzene	135-98-8	mg/kg	25	100	500	25	0.042		0.0011	U	0.0012	U	0.00087	U	0.00088	U	0.0011	U	0.0013	U	0.00084	U	0.0014	U	0.0011	U	0.0011	U	0.00096	U	0.001	U	0.00094	U	0.14		0.00013	J	0.00014	J	0.001	U
Styrene	100-42-5	mg/kg	NS	NS	NS	NS	0.001	U	0.0011	U	0.0012	U	0.00087	U	0.00088	U	0.0011	U	0.0013	U	0.00084	U	0.0014	U	0.0011	U	0.0011	U	0.00096	U	0.0006	J	0.00094	U	0.0011	U	0.00052	J	0.00088	U	0.001	U
tert-Butylbenzene	98-06-6	mg/kg	11	100	500	11	0.0016	J	0.0023	U	0.0024	U	0.0017	U	0.0018	U	0.0023	U	0.0026	U	0.0017	U	0.0027	U	0.0022	U	0.0022	U	0.0019	U	0.002	U	0.0019	U	0.005		0.0018	U	0.0018	U	0.0021	U
Tetrachloroethene	127-18-4	mg/kg	1.3	18	81	1.3	0.00053	U	0.00057	U	0.0006	U	0.00044	U	0.00044	U	0.00023	J	0.00048	J	0.00042	U	0.00068	U	0.00055	U	0.00056	U	0.00048	U	0.00051	U	0.0047	U	0.00056	U	0.00046	U	0.00044	U	0.00053	U
Toluene	108-88-3	mg/kg	0.7	100	500	0.7	0.001	U	0.0011	U	0.0012	U	0.00087	U	0.00088	U	0.0011	U	0.0013	U	0.00084	U	0.0014	U	0.0011	U	0.0011	U	0.00096	U	0.00061	J	0.00094	U	0.0011	U	0.00091	U	0.00088	U	0.001	U
trans-1,2-Dichloroethene	156-60-5	mg/kg	0.19	100	500	0.19	0.0016	U	0.0017	U	0.0018	U	0.0013	U	0.0013	U	0.0017	U	0.002	U	0.0013	U	0.002	U	0.0016	U	0.0017	U	0.0014	U	0.0015	U	0.0014	U	0.0017	U	0.0014	U	0.0013	U	0.0016	U
trans-1,3-Dichloropropene	10061-02-6	mg/kg	NS	NS	NS	NS	0.001	U	0.0011	U	0.0012	U	0.00087	U	0.00088	U	0.0011	U	0.0013	U	0.00084	U	0.0014	U	0.0011	U	0.0011	U	0.00096	U	0.001	U	0.00094	U	0.0011	U	0.00091	U	0.00088	U	0.001	U
trans-1,4-Dichloro-2-butene	110-57-6	mg/kg	NS	NS	NS	NS	0.0053	U	0.0057	U	0.006	U	0.0044	U	0.0044	U	0.0057	U	0.0066	U	0.0042	U	0.0068	U	0.0055	U	0.0056	U	0.0048	U	0.0051	U	0.0047	U	0.0056	U	0.0046	U	0.0044	U	0

TABLE 5.1 A
SUMMARY OF SOIL SAMPLING RESULTS—VOCs

SAMPLE ID:							SB-21 (4.0-4.5)		SB-21 (7.0-7.5)		SB-21 (13.0-13.5)		SB-22 (1.0-1.5)		SB-22 (5.5-6.0)		SB-22 (11.5-12.0)		SB-23 (1-1.5)		SB-23 (5.5-6)		SB-24 (3.5-4)		SB-24 (7-7.5)		SB-25 (4.5-5)		SB-25 (7.5-8)		SB-25 (11-11.5)		SB-26 (4-4.5)		SB-26 (6.5-7)		SB-26 (12-12.5)	
LAB SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	L2543250-04		L2543726-06		L2543726-07		L2543726-01		L2543726-02		L2543726-03		L2547611-04		L2547611-03		L2547611-08		L2547611-09		L2547611-07		L2547611-05		L2547611-06		L2547764-15		L2547764-16		L2547764-17	
SAMPLE DATE:							7/10/2025		7/11/2025		7/11/2025		7/11/2025		7/11/2025		7/11/2025		7/29/2025		7/29/2025		7/29/2025		7/29/2025		7/29/2025		7/29/2025		7/30/2025		7/30/2025		7/30/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
VOCs (SW846 8260D)																																						
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	NS	NS	NS	NS	0.0005	U	0.00047	U	0.00049	U	0.00061	U	0.00057	U	0.00056	U	0.00057	U	0.00067	U	0.00056	U	0.00045	U	0.00044	U	0.00057	U	0.00048	U	0.00076	U	0.00055	U	0.00045	U
1,1,1-Trichloroethane	71-55-6	mg/kg	0.68	100	500	0.68	0.0005	U	0.00047	U	0.00049	U	0.00061	U	0.00057	U	0.00056	U	0.00057	U	0.00067	U	0.00056	U	0.00045	U	0.00044	U	0.00057	U	0.00048	U	0.00076	U	0.00055	U	0.00045	U
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	NS	NS	NS	NS	0.0005	U	0.00047	U	0.00049	U	0.00061	U	0.00057	U	0.00056	U	0.00057	U	0.00067	U	0.00056	U	0.00045	U	0.00044	U	0.00057	U	0.00048	U	0.00076	U	0.00055	U	0.00045	U
1,1,2-Trichloroethane	79-00-5	mg/kg	NS	NS	NS	NS	0.001	U	0.00094	U	0.00098	U	0.0012	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U	0.0011	U	0.0009	U	0.00087	U	0.0011	U	0.00096	U	0.0015	U	0.0011	U	0.00091	U
1,1-Dichloroethane	75-34-3	mg/kg	0.27	47	240	0.27	0.001	U	0.00094	U	0.00098	U	0.0012	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U	0.0011	U	0.0009	U	0.00087	U	0.0011	U	0.00096	U	0.0015	U	0.0011	U	0.00091	U
1,1-Dichloroethene	75-35-4	mg/kg	0.24	0.98	5.1	0.33	0.001	U	0.00094	U	0.00098	U	0.0012	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U	0.0011	U	0.0009	U	0.00087	U	0.0011	U	0.00096	U	0.0015	U	0.0011	U	0.00091	U
1,1-Dichloropropene	563-58-6	mg/kg	NS	NS	NS	NS	0.0005	U	0.00047	U	0.00049	U	0.00061	U	0.00057	U	0.00056	U	0.00057	U	0.00067	U	0.00056	U	0.00045	U	0.00044	U	0.00057	U	0.00048	U	0.00076	U	0.00055	U	0.00045	U
1,2,3-Trichlorobenzene	87-61-6	mg/kg	NS	NS	NS	NS	0.002	U	0.0019	U	0.002	U	0.0024	U	0.0023	U	0.0022	U	0.0023	U	0.0027	U	0.0022	U	0.0018	U	0.0017	U	0.0023	U	0.0019	U	0.003	U	0.0022	U	0.0018	U
1,2,3-Trichloropropane	96-18-4	mg/kg	NS	NS	NS	NS	0.002	U	0.0019	U	0.002	U	0.0024	U	0.0023	U	0.0022	U	0.0023	U	0.0027	U	0.0022	U	0.0018	U	0.0017	U	0.0023	U	0.0019	U	0.003	U	0.0022	U	0.0018	U
1,2,4,5-Tetramethylbenzene	95-93-2	mg/kg	NS	NS	NS	NS	0.002	U	0.0019	U	0.002	U	0.0024	U	0.0023	U	0.0022	U	0.0023	U	0.00048	J	0.0022	U	0.0018	U	0.0017	U	0.0023	U	0.0019	U	0.003	U	0.0022	U	0.0018	U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	NS	NS	NS	NS	0.002	U	0.0019	U	0.002	U	0.0024	U	0.0023	U	0.0022	U	0.0023	U	0.0027	U	0.0022	U	0.0018	U	0.0017	U	0.0023	U	0.0019	U	0.003	U	0.0022	U	0.0018	U
1,2,4-Trimethylbenzene	95-63-6	mg/kg	5.9	100	500	5.9	0.002	U	0.0019	U	0.002	U	0.0024	U	0.0023	U	0.0022	U	0.0023	U	0.0027	U	0.0022	U	0.0018	U	0.0017	U	0.0023	U	0.0019	U	0.003	U	0.0022	U	0.0018	U
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	NS	NS	NS	NS	0.003	U	0.0028	U	0.003	U	0.0037	U	0.0034	U	0.0034	U	0.0034	U	0.004	U	0.0034	U	0.0027	U	0.0026	U	0.0034	U	0.0029	U	0.0046	U	0.0033	U	0.0027	U
1,2-Dibromoethane	106-93-4	mg/kg	NS	NS	NS	NS	0.001	U	0.00094	U	0.00098	U	0.0012	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U	0.0011	U	0.0009	U	0.00087	U	0.0011	U	0.00096	U	0.0015	U	0.0011	U	0.00091	U
1,2-Dichlorobenzene	95-50-1	mg/kg	1.1	100	500	1.1	0.002	U	0.0019	U	0.002	U	0.0024	U	0.0023	U	0.0022	U	0.0023	U	0.0027	U	0.0022	U	0.0018	U	0.0017	U	0.0023	U	0.0019	U	0.003	U	0.0022	U	0.0018	U
1,2-Dichloroethane	107-06-2	mg/kg	0.02	5.8	30	0.02	0.001	U	0.00094	U	0.00098	U	0.0012	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U	0.0011	U	0.0009	U	0.00087	U	0.0011	U	0.00096	U	0.0015	U	0.0011	U	0.00091	U
1,2-Dichloroethene, Total	540-59-0	mg/kg	NS	NS	NS	NS	0.001	U	0.00094	U	0.00098	U	0.0012	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U	0.0011	U	0.0009	U	0.00087	U	0.0011	U	0.00096	U	0.0015	U	0.0011	U	0.00091	U
1,2-Dichloropropane	78-87-5	mg/kg	NS	NS	NS	NS	0.001	U	0.00094	U	0.00098	U	0.0012	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U	0.0011	U	0.0009	U	0.00087	U	0.0011	U	0.00096	U	0.0015	U	0.0011	U	0.00091	U
1,3,5-Trimethylbenzene	108-67-8	mg/kg	3.1	100	500	3.1	0.002	U	0.0019	U	0.002	U	0.0024	U	0.0023	U	0.0022	U	0.0023	U	0.0027	U	0.0022	U	0.0018	U	0.0017	U	0.0023	U	0.0019	U	0.003	U	0.0022	U	0.0018	U
1,3-Dichlorobenzene	541-73-1	mg/kg	2.6	38	280	2.6	0.002	U	0.0019	U	0.002	U	0.0024	U	0.0023	U	0.0022	U	0.0023	U	0.0027	U	0.0022	U	0.0018	U	0.0017	U	0.0023	U	0.0019	U	0.003	U	0.0022	U	0.0018	U
1,3-Dichloropropane	142-28-9	mg/kg	NS	NS	NS	NS	0.002	U	0.0019	U	0.002	U	0.0024	U	0.0023	U	0.0022	U	0.0023	U	0.0027	U	0.0022	U	0.0018	U	0.0017	U	0.0023	U	0.0019	U	0.003	U	0.0022	U	0.0018	U
1,3-Dichloropropene, Total	542-75-6	mg/kg	NS	NS	NS	NS	0.0005	U	0.00047	U	0.00049	U	0.00061	U	0.00057	U	0.00056	U	0.00057	U	0.00067	U	0.00056	U	0.00045	U	0.00044	U	0.00057	U	0.00048	U	0.00076	U	0.00055	U	0.00045	U
1,4-Dichlorobenzene	106-46-7	mg/kg	1.8	24	130	1.8	0.002	U	0.0019	U	0.002	U	0.0024	U	0.0023	U	0.0022	U	0.0023	U	0.0027	U	0.0022	U	0.0018	U	0.0017	U	0.0023	U	0.0019	U	0.003	U	0.0022	U	0.0018	U
1,4-Dioxane	123-91-1	mg/kg	0.1	5.7	36	0.1	0.081	U	0.075	U	0.079	U	0.098	U	0.092	U	0.09	U	0.091	U	0.11	U	0.09	U	0.072	U	0.07	U	0.09	U	0.077	U	0.12	U	0.088	U	0.073	U
2,2-Dichloropropane	594-20-7	mg/kg	NS	NS	NS	NS	0.002	U	0.0019	U	0.002	U	0.0024	U	0.0023	U	0.0022	U	0.0023	U	0.0027	U	0.0022	U	0.0018	U	0.0017	U	0.0023	U	0.0019	U	0.003	U	0.0022	U	0.0018	U
2-Butanone (MEK)	78-93-3	mg/kg	0.1	100	500	0.1	0.01	U	0.0094	U	0.0098	U	0.012	U	0.011	U	0.011	U	0.011	U	0.015		0.029		0.0095	J	0.0036	J	0.0034	J	0.0052	J	0.0096	U	0.015	U	0.011	U	0.0091	U
2-Hexanone	591-78-6	mg/kg	NS	NS	NS	NS	0.01	U	0.0094	U	0.0098	U	0.012	U	0.011	U	0.011	U	0.011	U	0.011	U	0.013	U	0.011	U	0.009	U	0.0087	U	0.011	U	0.0096	U	0.015	U	0.011	U	0.0091	U
4-Methyl-2-pentanone(MIBK)	108-10-1	mg/kg	NS	NS	NS	NS	0.01	U	0.0094	U	0.0098	U	0.012	U	0.011	U	0.011	U	0.011	U	0.013	U	0.011	U	0.009	U	0.0087	U	0.011	U	0.0096	U	0.015	U	0.011	U	0.0091	U
Acetone	67-64-1	mg/kg	0.03	100	500	0.03	0.01	U	0.0094	U	0.0098	U	0.012	U	0.011	U	0.0057	J	0.061		0.27		0.05		0.014		0.023		0.018		0.017		0.015	U	0.011	U	0.0067	J
Acrylonitrile	107-13-1	mg/kg	NS	NS	NS	NS	0.004	U	0.0037	U	0.0039	U	0.0049	U	0.0046	U	0.0045	U	0.0046	U	0.0054	U	0.0045	U	0.0036	U	0.0035	U	0.0045	U	0.0038	U	0.0061	U	0.0044	U	0.0036	U
Benzene	71-43-2	mg/kg	0.06	3.7	20	0.06	0.0005	U	0.00047	U	0.00049	U	0.00061	U	0.00057	U	0.00056	U	0.00057	U	0.00035	J	0.00056	U	0.00031	J	0.00044	U	0.00051	J	0.00048	U	0.00076	U	0.00055	U	0.00045	U
Bromobenzene	108-86-1	mg/kg	NS	NS	NS	NS	0.002	U	0.0019	U	0.002	U	0.0024	U	0.0023	U	0.0022	U	0.0023	U	0.0027	U	0.0022	U	0.0018	U	0.0017	U	0.0023	U	0.0019	U	0.003	U	0.0022	U	0.0018	U
Bromochloromethane	74-97-5	mg/kg	NS	NS	NS	NS	0.002	U	0.0019	U	0.002	U	0.0024	U	0.0023	U	0.0022	U	0.0023	U	0.0027	U	0.0022	U	0.0018	U	0.0017	U	0.0023	U	0.0019	U	0.003	U	0.0022	U	0.0018	U
Bromodichloromethane	75-27-4	mg/kg	NS	NS	NS	NS	0.0005	U	0.00047	U	0.00049	U	0.00061	U	0.00057	U	0.00056	U	0.00057	U	0.00067	U	0.00056	U	0.00045	U	0.00044	U	0.00057	U	0.00048	U	0.00076	U	0.00055	U	0.00045	U
Bromoform	75-25-2	mg/kg	NS	NS	NS	NS	0.004	U	0.0037	U	0.0039	U	0.0049	U	0.0046	U	0.0045	U	0.0046	U	0.0054	U	0.0045	U	0.0036	U	0.0035	U	0.0045	U	0.0038	U	0.0061	U	0.0044	U	0.0036	U
Bromomethane	74-83-9	mg/kg	NS	NS	NS	NS	0.002	U	0.0019	U	0.002	U	0.0024	U	0.0023	U	0.0022	U	0.0023	U	0.0027	U	0.0022	U	0.0018	U	0.0017	U	0.0023	U	0.0019	U	0.003	U	0.0022	U	0.0018	U
Carbon disulfide	75-15-0	mg/kg	NS	NS	NS	NS	0.01	U	0.0094	U	0.0098	U	0.012	U	0.011	U	0.011	U	0.011	U	0.013	U	0.011	U	0.009	U	0.0087	U	0.011	U	0.0096	U	0.015	U	0.011	U	0.0091	U
Carbon tetrachloride	56-23-5	mg/kg	0.76	7.1	41	0.76	0.001	U	0.00094	U	0.00098	U	0.0012	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U	0.0011	U	0.0009	U	0.00087	U	0.0011	U	0.00096	U	0.0015	U	0.0011	U	0.00091	U
Chlorobenzene	108-90-7	mg/kg	4.5	100	500	4.5	0.0005	U	0.00047	U	0.00049	U	0.00061	U	0.00057	U	0.00056	U	0.00057	U	0.00067	U	0.00056	U	0.00045	U	0.00044	U	0.00057	U	0.00048	U	0.00076	U	0.00055	U	0.00045	U
Chloroethane	75-00-3	mg/kg	NS	NS	NS	NS	0.002	U	0.0019	U	0.002	U	0.0024	U	0.0023	U	0.0022	U	0.0023	U	0.0027	U	0.0022	U	0.0018	U	0.0017	U	0.0023	U	0.0019	U	0.003	U	0.0022	U	0.0018	U
Chloroform	67-66-3	mg/kg	0.37	24	180	0.37	0.0015	U	0.0014	U	0.0015	U	0.0018	U	0.0017	U	0.0017	U	0.0017	U	0.002	U	0.0017	U	0.0013	U	0.0013	U	0.0017	U	0.0014	U	0.0023	U	0.0017	U	0.0014	U
Chloromethane	74-87-3	mg/kg	NS	NS	NS	NS	0.004	U	0.0037	U	0.0039	U	0.0049	U	0.0046	U	0.0045	U	0.0046	U	0.0054	U	0.0045	U	0.0036	U	0.0035	U	0.0045	U	0.0038	U	0.0061	U	0.0044	U	0.0036	U
cis-1,2-Dichloroethene	156-59-2	mg/kg	0.19	41	500	0.19	0.001	U	0.00094	U	0.00098	U	0.0012	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U	0.0011	U	0.0009	U	0.00087	U	0.0011	U	0.00096	U	0.0015	U	0.0011	U	0.00091	U
cis-1,3-Dichloropropene	10061-01-5	mg/kg	NS	NS	NS	NS	0.0005	U	0.00047	U	0.00049	U	0.00061	U	0.00057	U	0.00056	U	0.00057	U	0.00067	U	0.00056	U	0.00045	U	0.00044	U	0.00057	U	0.00048	U	0.00076	U	0.00055	U	0.00045	U
Cyclohexane	110-82-7	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Dibromochloromethane	124-48-1	mg/kg	NS	NS	NS	NS	0.001	U	0.00094	U	0.00098	U	0.0012	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U	0.0011	U	0.0009	U	0.00087	U	0.0011	U	0.00096	U	0.0015	U	0.0011	U	0.00091	U
Dibromomethane	74-95-3	mg/kg	NS	NS	NS	NS	0.002	U	0.0019	U	0.002	U	0.0024	U	0.0023	U	0.0022	U	0.0023	U	0.0027	U	0.0022	U	0.0018	U	0.0017	U	0.0023	U	0.0019	U	0.003	U	0.0022	U	0.0018	U
Dichlorodifluoromethane	75-71-8	mg/kg	NS	NS	NS	NS	0.01	U	0.0094	U	0.0098	U	0.012	U	0.011	U	0.011	U	0.011	U	0.013	U	0.011	U	0.009	U	0.0087	U	0.011	U	0.0096	U	0.015	U	0.011	U	0.0091	U
Ethyl ether	60-29-7	mg/kg	NS	NS	NS	NS	0.002	U	0.0019	U	0.00037	J	0.00048	J	0.00042	J	0.00043	J	0.0023	U	0.0027	U	0.0022	U	0.0018	U	0.0017	U	0.0023	U	0.0019	U	0.003	U	0.0022	U	0.0018	U
Ethylbenzene	100-41-4	mg/kg	1	76	390	1	0.001	U	0.00094	U	0.00098	U	0.0012	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U	0.0011	U	0.0009	U	0.00087	U	0.0011	U	0.00096	U	0.0015	U	0.0011	U	0.00091	U
Freon 113	76-13-1	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Hexachlorobutadiene	87-68-3	mg/kg	NS	NS	NS	NS	0.004	U	0.0037	U	0.0039	U	0.0049	U	0.0046	U	0.0045	U	0.0046	U	0.0054	U	0.0045	U	0.0036	U	0.0035	U	0.0045	U	0.0038	U	0.0061	U	0.0044	U	0.0036	U
Isopropylbenzene	98-82-8	mg/kg	NS	NS	NS	NS	0.001	U	0.00094	U	0.00098	U	0.0012	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U	0.0011	U	0.0009	U	0.00087	U	0.0011	U	0.00096	U	0.0015	U	0.0011	U	0.00091	U
m,p-Xylene	179601-23-1	mg/kg	NS	NS	NS	NS	0.002	U	0.0019	U	0.002	U	0.0024	U	0.0023	U	0.0022	U	0.0023	U	0.0027	U	0.0022	U	0.0018	U	0.0017	U	0.0023	U	0.0019	U	0.003	U	0.0022	U	0.0018	U
Methyl Acetate	79-20-9	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Methyl Tert Butyl Ether	1634-04-4	mg/kg	0.1	100	500	0.1	0.002	U	0.0019	U	0.002	U	0.0024	U	0.0023	U	0.0022	U	0.0023	U	0.0027	U	0.0022	U	0.0018	U	0.0017	U	0.0023	U	0.0019	U	0.003	U	0.0022	U	0.0018	U
Methylcyclohexane	108-87-2	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Methylene chloride	75-09-2	mg/kg	0.05	81	500	0.05	0.005	U	0.0047	U	0.0049	U	0.0061	U	0.0057	U	0.0056	U	0.0057	U	0.0067	U	0.0056	U	0.0045	U	0.0044	U	0.0057	U	0.0048	U	0.0076	U	0.0055	U	0.0045	U
Naphthalene	91-20-3	mg/kg	12	100	500	12	0.004	U	0.0037	U	0.0039	U	0.0049	U	0.0046	U	0.0045	U	0.0046	U	0.0054	U	0.0045	U	0.0036	U	0.0035	U	0.0045	U	0.0038	U	0.0061	U	0.0044	U	0.0036	U
n-Butylbenzene	104-51-8	mg/kg	18	100	500	18	0.001	U	0.00094	U	0.00098	U	0.0012	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U	0.0011	U	0.0009	U	0.00087	U	0.0011	U	0.00096	U	0.0015	U	0.0011	U	0.00091	U
n-Propylbenzene	103-65-1	mg/kg	5	100	500	5	0.001	U	0.00094	U	0.00098	U	0.0012	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U	0.0011	U	0.0009	U	0.00087	U	0.0011	U	0.00096	U	0.0015	U	0.0011	U	0.00091	U
o-Chlorotoluene	95-49-8	mg/kg	NS	NS	NS	NS	0.002	U	0.0019	U	0.002	U	0.0024	U	0.0023	U	0.0022	U	0.0023	U	0.0027	U	0.0022	U	0.0018	U	0.0017	U	0.0023	U	0.0019	U	0.003	U	0.0022	U	0.0018	U
o-Xylene	95-47-6	mg/kg	NS	NS	NS	NS	0.001	U	0.00094	U	0.00098	U	0.0012	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U	0.0011	U	0.0009	U	0.00087	U	0.0011	U	0.00096	U	0.0015	U	0.0011	U	0.00091	U
p-Chlorotoluene	106-43-4	mg/kg	NS	NS	NS	NS	0.002	U	0.0019	U	0.002	U	0.0024	U	0.0023	U	0.0022	U	0.0023	U	0.0027	U	0.0022	U	0.0018	U	0.0017	U	0.0023	U	0.0019	U	0.003	U	0.0022	U	0.0018	U
p-Diethylbenzene	105-05-5	mg/kg	NS	NS	NS	NS	0.002	U	0.0019	U	0.002	U	0.0024	U	0.0023	U	0.0022	U	0.0023	U	0.0027	U	0.0022	U	0.0018	U	0.0017	U	0.0023	U	0.0019	U	0.003	U	0.0022	U	0.0018	U
p-Ethyltoluene	622-96-8	mg/kg	NS	NS	NS	NS	0.002	U	0.0019	U	0.002	U	0.0024	U	0.0023	U	0.0022	U	0.0023	U	0.0027	U	0.0022	U	0.0018	U	0.0017	U	0.0023	U	0.0019	U	0.003	U	0.0022	U	0.0018	U
p-Isopropyltoluene	99-87-6	mg/kg	NS	NS	NS	NS	0.001	U	0.00094	U	0.00098	U	0.0012	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U	0.0011	U	0.0009	U	0.00087	U	0.0011	U	0.00096	U	0.0015	U	0.0011	U	0.00091	U
sec-Butylbenzene	135-98-8	mg/kg	25	100	500	25	0.001	U	0.00094	U	0.00098	U	0.0012	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U	0.0011	U	0.0009	U	0.00087	U	0.0011	U	0.00096	U	0.0015	U	0.0011	U	0.00091	U
Styrene	100-42-5	mg/kg	NS	NS	NS	NS	0.001	U	0.00057	J	0.00059	J	0.00076	J	0.0007	J	0.0011	U	0.0011	U	0.0013	U	0.0011	U	0.0009	U	0.00087	U	0.0011	U	0.00096	U	0.0015	U	0.0011	U	0.00091	U
tert-Butylbenzene	98-06-6	mg/kg	11	100	500	11	0.002	U	0.0019	U	0.002	U	0.0024	U	0.0023	U	0.0022	U	0.0023	U	0.0027	U	0.0022	U	0.0018	U	0.0017	U	0.0023	U	0.0019	U	0.003	U	0.0022	U	0.0018	U
Tetrachloroethene	127-18-4	mg/kg	1.3	18	81	1.3	0.0005	U	0.00047	U	0.00049	U	0.00061	U	0.00057	U	0.00056	U	0.00057	U	0.00067	U	0.00056	U	0.00045	U	0.00044	U	0.00057	U	0.00048	U	0.00076	U	0.00055	U	0.00045	U
Toluene	108-88-3	mg/kg	0.7	100	500	0.7	0.001	U	0.00064	J	0.0007	J	0.0012	U	0.00076	J	0.0011	U	0.0011	U	0.0013	U	0.0011	U	0.0009	U	0.00087	U	0.0011	U	0.00096	U	0.0015	U	0.0011	U	0.00091	U
trans-1,2-Dichloroethene	156-60-5	mg/kg	0.19	100	500	0.19	0.0015	U	0.0014	U	0.0015	U	0.0018	U	0.0017	U	0.0017	U	0.0017	U	0.002	U	0.0017	U	0.0013	U	0.0013	U	0.0017	U	0.0014	U	0.0023	U	0.0017	U	0.0014	U
trans-1,3-Dichloropropene	10061-02-6	mg/kg	NS	NS	NS	NS	0.001	U	0.00094	U	0.00098	U	0.0012	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U	0.0011	U	0.0009	U	0.00087	U	0.0011	U	0.00096	U	0.0015	U	0.0011	U	0.00091	U
trans-1,4-Dichloro-2-butene	110-57-6	mg/kg	NS	NS	NS	NS	0.005	U	0.0047	U	0.0049	U	0.0061	U	0.0057	U	0.0056	U	0.0057	U	0.0067	U	0.0056	U	0.0045	U	0.0044	U	0.0057	U	0.0048	U	0.0076	U	0.0055	U	0.0045	U
Trichloroethene	79-01-6	mg/kg	0.47	6.4	54	0.47	0.0005	U	0.00047	U	0.00049	U	0.00061	U	0.00057	U	0.00056	U	0.00057	U	0.00067	U	0.00056	U	0.00045	U	0.00044	U	0.00057	U	0.00048	U	0.00076	U	0.00055	U	0.00045	U
Trichlorofluoromethane	75-69-4	mg/kg	NS	NS	NS	NS	0.004	U	0.0037	U	0.0039	U	0.0049	U	0.0046	U	0.0045	U	0.0046	U	0.0054	U	0.0045	U	0.0036	U	0.0035	U	0.0045	U	0.0038	U	0.0061	U	0.0044	U	0.0036	U
Vinyl acetate	108-05-4	mg/kg	NS	NS	NS	NS	0.01	U	0.0094	U	0.0098	U	0.012	U	0.011	U	0.011	U	0.011	U	0.013	U	0.011	U	0.009	U	0.0087	U	0.011	U	0.0096	U	0.015	U	0.011	U	0.0091	U
Vinyl chloride	75-01-4	mg/kg	0.03	0.48	7.1	0.03	0.001	U	0.00094	U	0.00098	U	0.0012	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U	0.0011	U	0.0009	U	0.00087	U	0.0011	U	0.00096	U	0.0015	U	0.0011	U	0.00091	U
Xylene (total)	1330-20-7	mg/kg	0.26	100	500	1.2	0.001	U	0.00094	U	0.00098	U	0.0012	U	0.0011	U	0.0011	U	0.0011	U	0.0013	U	0.0011	U	0.0009	U	0.00087	U	0.0011	U	0.00096	U	0.0015	U	0.0011	U	0.00091	U
Total TIC, Volatile	-	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs

Concentration Exceeds NYSDEC RRUSCOs

Concentration Exceeds NYSDEC UUSCOs

Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

TABLE 5.1 A
SUMMARY OF SOIL SAMPLING RESULTS—VOCs

SAMPLE ID:							SB-27 (3-3.5)		SB-27 (7-7.5)		SB-27 (10-10.5)		SB-28 (1-1.5)		SB-28 (8-8.5)		SB-28 (8-8.5)		SB-28 (10-10.5)		SB-29 (2.5-3)		SB-29 (8-8.5)		SB-29 (10.5-11)		SB-30 (2.5-3)		SB-30 (7.5-8)		SB-30 (10.5-11)		SB-31 (4.5-5.0)		SB-31 (9.5-10)		SB-31 (9.5-10)		SB-31 (10.5-11)	
LAB SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	L2547764-12		L2547764-14		L2547764-13		L2547764-09		L2547764-10		L2547764-10 R1		L2547764-11		L2547764-06		L2547764-07		L2547764-08		L2548308-07		L2548308-08		L2548308-09		L2548308-10		L2548308-12		L2548308-12 R1		L2548308-11	
SAMPLE DATE:							7/30/2025		7/30/2025		7/30/2025		7/30/2025		7/30/2025		7/30/2025		7/30/2025		7/30/2025		7/30/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
VOCs (SW846 8260D)																																									
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	NS	NS	NS	NS	0.032	U	0.00049	U	0.00044	U	0.00052	U	0.053	U	-		0.00046	U	0.00058	U	0.027	U	0.00055	U	0.00055	U	0.00052	U	0.00049	U	0.00057	U	0.17	U	-		0.028	U
1,1,1-Trichloroethane	71-55-6	mg/kg	0.68	100	500	0.68	0.032	U	0.00049	U	0.00044	U	0.00052	U	0.053	U	-		0.00046	U	0.00058	U	0.027	U	0.00055	U	0.00055	U	0.00052	U	0.00049	U	0.00057	U	0.17	U	-		0.028	U
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	NS	NS	NS	NS	0.032	U	0.00049	U	0.00044	U	0.00052	U	0.053	U	-		0.00046	U	0.00058	U	0.027	U	0.00055	U	0.00055	U	0.00052	U	0.00049	U	0.00057	U	0.17	U	-		0.028	U
1,1,2-Trichloroethane	79-00-5	mg/kg	NS	NS	NS	NS	0.065	U	0.00097	U	0.00088	U	0.001	U	0.11	U	-		0.00092	U	0.0012	U	0.055	U	0.0011	U	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.34	U	-		0.056	U
1,1-Dichloroethane	75-34-3	mg/kg	0.27	47	240	0.27	0.065	U	0.00097	U	0.00088	U	0.001	U	0.11	U	-		0.00092	U	0.0012	U	0.055	U	0.0011	U	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.34	U	-		0.056	U
1,1-Dichloroethene	75-35-4	mg/kg	0.24	0.98	5.1	0.33	0.065	U	0.00097	U	0.00088	U	0.001	U	0.11	U	-		0.00092	U	0.0012	U	0.055	U	0.0011	U	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.34	U	-		0.056	U
1,1-Dichloropropene	563-58-6	mg/kg	NS	NS	NS	NS	0.032	U	0.00049	U	0.00044	U	0.00052	U	0.053	U	-		0.00046	U	0.00058	U	0.027	U	0.00055	U	0.00055	U	0.00052	U	0.00049	U	0.00057	U	0.17	U	-		0.028	U
1,2,3-Trichlorobenzene	87-61-6	mg/kg	NS	NS	NS	NS	0.13	U	0.0019	U	0.0018	U	0.0021	U	0.21	U	-		0.0018	U	0.0023	U	0.11	U	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.0023	U	0.69	U	-		0.11	U
1,2,3-Trichloropropane	96-18-4	mg/kg	NS	NS	NS	NS	0.13	U	0.0019	U	0.0018	U	0.0021	U	0.21	U	-		0.0018	U	0.0023	U	0.11	U	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.0023	U	0.69	U	-		0.11	U
1,2,4,5-Tetramethylbenzene	95-93-2	mg/kg	NS	NS	NS	NS	1.1		0.04		0.0016	J	0.00026	J	4.2		-		0.0072		0.0023	U	3.1		0.033		0.022	U	0.17		0.002	U	0.0023	U	34		-		5.4	
1,2,4-Trichlorobenzene	120-82-1	mg/kg	NS	NS	NS	NS	0.13	U	0.0019	U	0.0018	U	0.0021	U	0.21	U	-		0.0018	U	0.0023	U	0.11	U	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.0023	U	0.69	U	-		0.11	U
1,2,4-Trimethylbenzene	95-63-6	mg/kg	5.9	100	500	5.9	3.2		0.27		0.0031		0.00046	J	44		38	E	0.031		0.0023	U	0.043	J	0.00042	J	0.00044	J	0.69	E	0.002	U	0.0023	U	110	E	130		7.8	
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	NS	NS	NS	NS	0.19	U	0.0029	U	0.0026	U	0.0031	U	0.32	U	-		0.0028	U	0.0034	U	0.16	U	0.0033	U	0.0033	U	0.0031	U	0.0029	U	0.0034	U	1	U	-		0.17	U
1,2-Dibromoethane	106-93-4	mg/kg	NS	NS	NS	NS	0.065	U	0.00097	U	0.00088	U	0.001	U	0.11	U	-		0.00092	U	0.0012	U	0.055	U	0.0011	U	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.34	U	-		0.056	U
1,2-Dichlorobenzene	95-50-1	mg/kg	1.1	100	500	1.1	0.13	U	0.0019	U	0.0018	U	0.0021	U	0.21	U	-		0.0018	U	0.0023	U	0.11	U	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.0023	U	0.69	U	-		0.11	U
1,2-Dichloroethane	107-06-2	mg/kg	0.02	5.8	30	0.02	0.065	U	0.00097	U	0.00088	U	0.001	U	0.11	U	-		0.00092	U	0.0012	U	0.055	U	0.0011	U	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.34	U	-		0.056	U
1,2-Dichloroethene, Total	540-59-0	mg/kg	NS	NS	NS	NS	0.065	U	0.00097	U	0.00088	U	0.001	U	0.11	U	-		0.00092	U	0.0012	U	0.055	U	0.0011	U	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.34	U	-		0.056	U
1,2-Dichloropropane	78-87-5	mg/kg	NS	NS	NS	NS	0.065	U	0.00097	U	0.00088	U	0.001	U	0.11	U	-		0.00092	U	0.0012	U	0.055	U	0.0011	U	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.34	U	-		0.056	U
1,3,5-Trimethylbenzene	108-67-8	mg/kg	3.1	100	500	3.1	1.5		0.091		0.00094	J	0.00023	J	13		-		0.013		0.0023	U	0.013	J	0.00037	J	0.0022	U	0.34	E	0.002	U	0.0023	U	0.69	U	-		0.11	U
1,3-Dichlorobenzene	541-73-1	mg/kg	2.6	38	280	2.6	0.13	U	0.0019	U	0.0018	U	0.0021	U	0.21	U	-		0.0018	U	0.0023	U	0.11	U	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.0023	U	0.69	U	-		0.11	U
1,3-Dichloropropane	142-28-9	mg/kg	NS	NS	NS	NS	0.13	U	0.0019	U	0.0018	U	0.0021	U	0.21	U	-		0.0018	U	0.0023	U	0.11	U	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.0023	U	0.69	U	-		0.11	U
1,3-Dichloropropene, Total	542-75-6	mg/kg	NS	NS	NS	NS	0.032	U	0.00049	U	0.00044	U	0.00052	U	0.053	U	-		0.00046	U	0.00058	U	0.027	U	0.00055	U	0.00055	U	0.00052	U	0.00049	U	0.00057	U	0.17	U	-		0.028	U
1,4-Dichlorobenzene	106-46-7	mg/kg	1.8	24	130	1.8	0.13	U	0.0019	U	0.0018	U	0.0021	U	0.21	U	-		0.0018	U	0.0023	U	0.11	U	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.0023	U	0.69	U	-		0.11	U
1,4-Dioxane	123-91-1	mg/kg	0.1	5.7	36	0.1	5.2	U	0.078	U	0.071	U	0.084	U	8.5	U	-		0.074	U	0.092	U	4.4	U	0.088	U	0.088	U	0.083	U	0.078	U	0.091	U	28	U	-		4.5	U
2,2-Dichloropropane	594-20-7	mg/kg	NS	NS	NS	NS	0.13	U	0.0019	U	0.0018	U	0.0021	U	0.21	U	-		0.0018	U	0.0023	U	0.11	U	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.0023	U	0.69	U	-		0.11	U
2-Butanone (MEK)	78-93-3	mg/kg	0.1	100	500	0.1	0.65	U	0.0097	U	0.0088	U	0.01	U	1.1	U	-		0.0092	U	0.012	U	0.55	U	0.011	U	0.011	U	0.01	U	0.0024	J	0.011	U	3.4	U	-		0.56	U
2-Hexanone	591-78-6	mg/kg	NS	NS	NS	NS	0.65	U	0.0097	U	0.0088	U	0.01	U	1.1	U	-		0.0092	U	0.012	U	0.55	U	0.011	U	0.011	U	0.01	U	0.0098	U	0.011	U	3.4	U	-		0.56	U
4-Methyl-2-pentanone(MIBK)	108-10-1	mg/kg	NS	NS	NS	NS	0.65	U	0.0097	U	0.0088	U	0.01	U	1.1	U	-		0.0092	U	0.012	U	0.55	U	0.011	U	0.011	U	0.01	U	0.0098	U	0.011	U	3.4	U	-		0.56	U
Acetone	67-64-1	mg/kg	0.03	100	500	0.03	0.65	U	0.029		0.015		0.01	U	1.1	U	-		0.018		0.0072	J	0.55	U	0.011	U	0.011	U	0.01	U	0.025		0.011	U	3.4	U	-		0.56	U
Acrylonitrile	107-13-1	mg/kg	NS	NS	NS	NS	0.26	U	0.0039	U	0.0035	U	0.0042	U	0.42	U	-		0.0037	U	0.0046	U	0.22	U	0.0044	U	0.0044	U	0.0042	U	0.0039	U	0.0045	U	1.4	U	-		0.22	U
Benzene	71-43-2	mg/kg	0.06	3.7	20	0.06	0.59		0.0049		0.00019	J	0.0023		0.053	U	-		0.064		0.00058	U	0.054		0.002		0.00055	U	0.0002	J	0.00049	U	0.00057	U	0.17	U	-		0.028	U
Bromobenzene	108-86-1	mg/kg	NS	NS	NS	NS	0.13	U	0.0019	U	0.0018	U	0.0021	U	0.21	U	-		0.0018	U	0.0023	U	0.11	U	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.0023	U	0.69	U	-		0.11	U
Bromochloromethane	74-97-5	mg/kg	NS	NS	NS	NS	0.13	U	0.0019	U	0.0018	U	0.0021	U	0.21	U	-		0.0018	U	0.0023	U	0.11	U	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.0023	U	0.69	U	-		0.11	U
Bromodichloromethane	75-27-4	mg/kg	NS	NS	NS	NS	0.032	U	0.00049	U	0.00044	U	0.00052	U	0.053	U	-		0.00046	U	0.00058	U	0.027	U	0.00055	U	0.00055	U	0.00052	U	0.00049	U	0.00057	U	0.17	U	-		0.028	U
Bromoform	75-25-2	mg/kg	NS	NS	NS	NS	0.26	U	0.0039	U	0.0035	U	0.0042	U	0.42	U	-		0.0037	U	0.0046	U	0.22	U	0.0044	U	0.0044	U	0.0042	U	0.0039	U	0.0045	U	1.4	U	-		0.22	U
Bromomethane	74-83-9	mg/kg	NS	NS	NS	NS	0.13	U	0.0019	U	0.0018	U	0.0021	U	0.21	U	-		0.0018	U	0.0023	U	0.11	U	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.0023	U	0.69	U	-		0.11	U
Carbon disulfide	75-15-0	mg/kg	NS	NS	NS	NS	0.65	U	0.0097	U	0.0088	U	0.01	U	1.1	U	-		0.0092	U	0.012	U	0.55	U	0.011	U	0.011	U	0.01	U	0.0098	U	0.011	U	3.4	U	-		0.56	U
Carbon tetrachloride	56-23-5	mg/kg	0.76	7.1	41	0.76	0.065	U	0.00097	U	0.00088	U	0.001	U	0.11	U	-		0.00092	U	0.0012	U	0.055	U	0.0011	U	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.34	U	-		0.056	U
Chlorobenzene	108-90-7	mg/kg	4.5	100	500	4.5	0.032	U	0.00049	U	0.00044	U	0.00052	U	0.053	U	-		0.00046	U	0.00058	U	0.027	U	0.00055	U	0.00055	U	0.00052	U	0.00049	U	0.00057	U	0.17	U	-		0.028	U
Chloroethane	75-00-3	mg/kg	NS	NS	NS	NS	0.13	U	0.0019	U	0.0018	U	0.0021	U	0.21	U	-		0.0018	U	0.0023	U	0.11	U	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.0023	U	0.69	U	-		0.11	U
Chloroform	67-66-3	mg/kg	0.37	24	180	0.37	0.097	U	0.0015	U	0.0013	U	0.0016	U	0.16	U	-		0.0014	U	0.0017	U	0.082	U	0.0016	U	0.0016	U	0.0016	U	0.0015	U	0.0017	U	0.52	U	-		0.084	U
Chloromethane	74-87-3	mg/kg	NS	NS	NS	NS	0.26	U	0.0039	U	0.0035	U	0.0042	U	0.42	U	-		0.0037	U	0.0046	U	0.22	U	0.0044	U	0.0044	U	0.0042	U	0.0039	U	0.0045	U	1.4	U	-		0.22	U
cis-1,2-Dichloroethene	156-59-2	mg/kg	0.19	41	500	0.19	0.065	U	0.00097	U	0.00088	U	0.001	U	0.11	U	-		0.00092	U	0.0012	U	0.055	U	0.0011	U	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.34	U	-		0.056	U
cis-1,3-Dichloropropene	10061-01-5	mg/kg	NS	NS	NS	NS	0.032	U	0.00049	U	0.00044	U	0.00052	U	0.053	U	-		0.00046	U	0.00058	U	0.027	U	0.00055	U	0.00055	U	0.00052	U	0.00049	U	0.00057	U	0.17	U	-		0.028	U
Cyclohexane	110-82-7	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Dibromochloromethane	124-48-1	mg/kg	NS	NS	NS	NS	0.065	U	0.00097	U	0.00088	U	0.001	U	0.11	U	-		0.00092	U	0.0012	U	0.055	U	0.0011	U	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.34	U	-		0.056	U
Dibromomethane	74-95-3	mg/kg	NS	NS	NS	NS	0.13	U	0.0019	U	0.0018	U	0.0021	U	0.21	U	-		0.0018	U	0.0023	U	0.11	U	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.0023	U	0.69	U	-		0.11	U
Dichlorodifluoromethane	75-71-8	mg/kg	NS	NS	NS	NS	0.65	U	0.0097	U	0.0088	U	0.01	U	1.1	U	-		0.0092	U	0.012	U	0.55	U	0.011	U	0.011	U	0.01	U	0.0098	U	0.011	U	3.4	U	-		0.56	U
Ethyl ether	60-29-7	mg/kg	NS	NS	NS	NS	0.13	U	0.0019	U	0.0018	U	0.0021	U	0.21	U	-		0.0018	U	0.0023	U	0.11	U	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.0023	U	0.69	U	-		0.11	U
Ethylbenzene	100-41-4	mg/kg	1	76	390	1	0.79		0.089		0.00089		0.00084	J	21		-		0.016		0.0012	U	0.11		0.0016		0.0021		0.078		0.00098	U	0.0011	U	0.18	J	-		0.022	J
Freon 113	76-13-1	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Hexachlorobutadiene	87-68-3	mg/kg	NS	NS	NS	NS	0.26	U	0.0039	U	0.0035	U	0.0042	U	0.42	U	-		0.0037	U	0.0046	U	0.22	U	0.0044	U	0.0044	U	0.0042	U	0.0039	U	0.0045	U	1.4	U	-		0.22	U
Isopropylbenzene	98-82-8	mg/kg	NS	NS	NS	NS	0.4		0.016		0.0001	J	0.00011	J	2.3		-		0.0056		0.0012	U	0.9		0.019		0.00024	J	0.048		0.00098	U	0.0011	U	6.3		-		0.75	
m,p-Xylene	179601-23-1	mg/kg	NS	NS	NS	NS	1.4		0.29		0.0027		0.0013	J	88		76	E	0.099		0.0023	U	0.088	J	0.0016	J	0.0033		0.3		0.002	U	0.0023	U	0.69	U	-		0.11	U
Methyl Acetate	79-20-9	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Methyl Tert Butyl Ether	1634-04-4	mg/kg	0.1	100	500	0.1	0.13	U	0.0019	U	0.0018	U	0.0021	U	0.21	U	-		0.0018	U	0.0023	U	0.11	U	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.0023	U	0.69	U	-		0.11	U
Methylcyclohexane	108-87-2	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Methylene chloride	75-09-2	mg/kg	0.05	81	500	0.05	0.32	U	0.0049	U	0.0044	U	0.0052	U	0.53	U	-		0.0046	U	0.0058	U	0.27	U	0.0055	U	0.0055	U	0.0052	U	0.0049	U	0.0057	U	1.7	U	-		0.28	U
Naphthalene	91-20-3	mg/kg	12	100	500	12	2.4		0.062		0.0049		0.0042	U	9.3		-		0.031		0.0046	U	0.12	J	0.0021	J	0.0044	U	0.16		0.0039	U	0.0045	U	3.4		-		0.64	
n-Butylbenzene	104-51-8	mg/kg	18	100	500	18	0.47		0.018		0.00073	J	0.001	U	2.1		-		0.003		0.0012	U	1.6		0.014		0.0011	U	0.083		0.00098	U	0.0011	U	13		-		2.5	
n-Propylbenzene	103-65-1	mg/kg	5	100	500	5	0.92		0.05		0.00043	J	0.00039	J	6.3		-		0.015		0.0012	U	2.9		0.05		0.00042	J	0.19		0.00098	U	0.0011	U	34		-		4	
o-Chlorotoluene	95-49-8	mg/kg	NS	NS	NS	NS	0.13	U	0.0019	U	0.0018	U	0.0021	U	0.21	U	-		0.0018	U	0.0023	U	0.11	U	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.0023	U	0.69	U	-		0.11	U
o-Xylene	95-47-6	mg/kg	NS	NS	NS	NS	0.03	J	0.068		0.0008	J	0.001	U	26		-		0.02		0.0012	U	0.055	U	0.00053	J	0.00054	J	0.055		0.0009	U	0.0011	U	0.34	U	-		0.056	U
p-Chlorotoluene	106-43-4	mg/kg	NS	NS	NS	NS	0.13	U	0.0019	U	0.0018	U	0.0021	U	0.21	U	-		0.0018	U	0.0023	U	0.11	U	0.0022	U	0.0022	U	0.0021	U	0.002	U	0.0023	U	0.69	U	-		0.11	U
p-Diethylbenzene	105-05-5	mg/kg	NS	NS	NS	NS	0.28		0.0098		0.0018	U	0.0021	U	1.1		-		0.0018		0.0023	U	0.88		0.011		0.0022	U	0.049		0.002	U	0.0023	U	13		-		2	
p-Ethyltoluene	622-96-8	mg/kg	NS	NS	NS	NS	1.4		0.18		0.0013	J	0.0021	U	32		-		0.028		0.0023	U	0.064	J	0.0013	J	0.00056	J	0.7	E	0.002	U	0.0023	U	33		-		3.2	
p-Isopropyltoluene	99-87-6	mg/kg	NS	NS	NS	NS	0.44		0.0059		0.00014	J	0.001	U	1		-		0.001		0.0012	U	0.055	U	0.00017	J	0.0011	U	0.021		0.00098	U	0.0011	U	5.6		-		0.62	
sec-Butylbenzene	135-98-8	mg/kg	25	100	500	25	0.3		0.0078		0.00019	J	0.001	U	0.89		-		0.0014		0.0012	U	0.67		0.0085		0.0011	U	0.033		0.00098	U	0.0011	U	7.5		-		0.95	
Styrene	100-42-5	mg/kg	NS	NS	NS	NS	0.065	U	0.00097	U	0.00088	U	0.001	U	0.11	U	-		0.00092	U	0.0012	U	0.055	U	0.0011	U	0.0011	U	0.00065	J	0.00098	U	0.0011	U	0.34	U	-		0.037	J
tert-Butylbenzene	98-06-6	mg/kg	11	100	500	11	0.028	J	0.0019	U	0.0018	U	0.0021	U	0.21	U	-		0.00013	J	0.0023	U	0.036	J	0.00064	J	0.0022	U	0.0012	J	0.002	U	0.0023	U	0.69	U	-		0.036	J
Tetrachloroethene	127-18-4	mg/kg	1.3	18	81	1.3	0.032	U	0.00049	U	0.00044	U	0.00052	U	0.053	U	-		0.00046	U	0.00058	U	0.027	U	0.00055	U	0.00055	U	0.00052	U	0.00049	U	0.00057	U	0.17	U	-		0.028	U
Toluene	108-88-3	mg/kg	0.7	100	500	0.7	0.09		0.012		0.00088	U	0.001	U	1.3		-		0.01		0.0012	U	0.055	U	0.00079	J	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.34	U	-		0.056	U
trans-1,2-Dichloroethene	156-60-5	mg/kg	0.19	100	500	0.19	0.097	U	0.0015	U	0.0013	U	0.0016	U	0.16	U	-		0.0014	U	0.0017	U	0.082	U	0.0016	U	0.0016	U	0.0016	U	0.0015	U	0.0017	U	0.52	U	-		0.084	U
trans-1,3-Dichloropropene	10061-02-6	mg/kg	NS	NS	NS	NS	0.065	U	0.00097	U	0.00088	U	0.001	U	0.11	U	-		0.00092	U	0.0012	U	0.055	U	0.0011	U	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.34	U	-		0.056	U
trans-1,4-Dichloro-2-butene	110-57-6	mg/kg	NS	NS	NS	NS	0.32	U	0.0049	U	0.0044	U	0.0052	U	0.53	U	-		0.0046	U	0.0058	U	0.27	U	0.0055	U	0.0055	U	0.0052	U	0.0049	U	0.0057	U	1.7	U	-		0.28	U
Trichloroethene	79-01-6	mg/kg	0.47	6.4	54	0.47	0.032	U	0.00049	U	0.00044	U	0.00052	U	0.053	U	-		0.00046	U	0.00058	U	0.027	U	0.00055	U	0.00055	U	0.00052	U	0.00049	U	0.00057	U	0.17	U	-		0.028	U
Trichlorofluoromethane	75-69-4	mg/kg	NS	NS	NS	NS	0.26	U	0.0039	U	0.0035	U	0.0042	U	0.42	U	-		0.0037	U	0.0046	U	0.22	U	0.0044	U	0.0044	U	0.0042	U	0.0039	U	0.0045	U	1.4	U	-		0.22	U
Vinyl acetate	108-05-4	mg/kg	NS	NS	NS	NS	0.65	U	0.0097	U	0.0088	U	0.01	U	1.1	U	-		0.0092	U	0.012	U	0.55	U	0.011	U	0.011	U	0.01	U	0.0098	U	0.011	U	3.4	U	-		0.56	U
Vinyl chloride	75-01-4	mg/kg	0.03	0.48	7.1	0.03	0.065	U	0.00097	U	0.00088	U	0.001	U	0.11	U	-		0.00092	U	0.0012	U	0.055	U	0.0011	U	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.34	U	-		0.056	U
Xylene (total)	1330-20-7	mg/kg	0.26	100	500	1.2	1.4	J	0.36		0.0035	J	0.0013	J	110		-		0.12		0.0012	U	0.088	J	0.0021	J	0.0038	J	0.36		0.00098	U	0.0011	U	0.34	U	-		0.056	U
Total TIC, Volatile	-	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs

Concentration Exceeds NYSDEC RRUSCOs

Concentration Exceeds NYSDEC UUSCOs

Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

TABLE 5.1 A
SUMMARY OF SOIL SAMPLING RESULTS—VOCs

SAMPLE ID:							SB-32 (1-1.5)		SB-32 (4-4.5)		SB-32 (13.5-14)		SB-33 (4-4.5)		SB-33 (6-6.5)		SB-33 (11.5-12)		SB-34 (2.5-3)		SB-34 (7-7.5)		SB-34 (7-7.5)		SB-34 (10.5-11)		SB-34 (10.5-11)		SB-35 (0.5-1)		SB-35 (9-9.5)		SB-35 (11.5-12)		SB-36 (4-5)		SB-36 (8-9)		SB-36 (8-9)	
LAB SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	L2548308-14		L2548308-13		L2548308-15		L2548308-16		L2548308-17		L2548308-18		L2548308-04		L2548308-05		L2548308-05 R1		L2548308-06		L2548308-06 R1		L2548308-01		L2548308-02		L2548308-03		L2548397-02		L2548397-01		L2548397-01 R1	
SAMPLE DATE:							7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		8/1/2025		8/1/2025		8/1/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
VOCs (SW846 8260D)																																								
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	NS	NS	NS	NS	0.0006	U	0.0005	U	0.00047	U	0.00058	U	0.00081	U	0.00052	U	0.00052	U	0.15	U	-		0.31	U	-		0.00052	U	0.00057	U	0.00054	U	0.00054	U	0.13	U	-	
1,1,1-Trichloroethane	71-55-6	mg/kg	0.68	100	500	0.68	0.0006	U	0.0005	U	0.00047	U	0.00058	U	0.00081	U	0.00052	U	0.00052	U	0.15	U	-		0.31	U	-		0.00052	U	0.00057	U	0.00054	U	0.00054	U	0.13	U	-	
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	NS	NS	NS	NS	0.0006	U	0.0005	U	0.00047	U	0.00058	U	0.00081	U	0.00052	U	0.00052	U	0.15	U	-		0.31	U	-		0.00052	U	0.00057	U	0.00054	U	0.00054	U	0.13	U	-	
1,1,2-Trichloroethane	79-00-5	mg/kg	NS	NS	NS	NS	0.0012	U	0.001	U	0.00094	U	0.0012	U	0.0016	U	0.001	U	0.001	U	0.3	U	-		0.62	U	-		0.001	U	0.0011	U	0.0011	U	0.0011	U	0.26	U	-	
1,1-Dichloroethane	75-34-3	mg/kg	0.27	47	240	0.27	0.0012	U	0.001	U	0.00094	U	0.0012	U	0.0016	U	0.001	U	0.001	U	0.3	U	-		0.62	U	-		0.001	U	0.0011	U	0.0011	U	0.0011	U	0.26	U	-	
1,1-Dichloroethene	75-35-4	mg/kg	0.24	0.98	5.1	0.33	0.0012	U	0.001	U	0.00094	U	0.0012	U	0.0016	U	0.001	U	0.001	U	0.3	U	-		0.62	U	-		0.001	U	0.0011	U	0.0011	U	0.0011	U	0.26	U	-	
1,1-Dichloropropene	563-58-6	mg/kg	NS	NS	NS	NS	0.0006	U	0.0005	U	0.00047	U	0.00058	U	0.00081	U	0.00052	U	0.00052	U	0.15	U	-		0.31	U	-		0.00052	U	0.00057	U	0.00054	U	0.00054	U	0.13	U	-	
1,2,3-Trichlorobenzene	87-61-6	mg/kg	NS	NS	NS	NS	0.0024	U	0.002	U	0.0019	U	0.0023	U	0.0032	U	0.0021	U	0.0021	U	0.6	U	-		1.2	U	-		0.0021	U	0.0023	U	0.0022	U	0.0022	U	0.51	U	-	
1,2,3-Trichloropropane	96-18-4	mg/kg	NS	NS	NS	NS	0.0024	U	0.002	U	0.0019	U	0.0023	U	0.0032	U	0.0021	U	0.0021	U	0.6	U	-		1.2	U	-		0.0021	U	0.0023	U	0.0022	U	0.0022	U	0.51	U	-	
1,2,4,5-Tetramethylbenzene	95-93-2	mg/kg	NS	NS	NS	NS	0.0024	U	0.002	U	0.0019	U	0.0047		0.00062	J	0.0028		0.22		15		-		58		-		0.012		0.098		0.0032		0.0057		13		-	
1,2,4-Trichlorobenzene	120-82-1	mg/kg	NS	NS	NS	NS	0.0024	U	0.002	U	0.0019	U	0.0023	U	0.0032	U	0.0021	U	0.00048	J	0.6	U	-		1.2	U	-		0.0021	U	0.0023	U	0.0022	U	0.0022	U	0.51	U	-	
1,2,4-Trimethylbenzene	95-63-6	mg/kg	5.9	100	500	5.9	0.0024	U	0.002	U	0.0019	U	0.00064	J	0.0032	U	0.0093		0.0096		130	E	160		310		340	E	0.054		0.046		0.0055		0.01		120		80	E
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	NS	NS	NS	NS	0.0036	U	0.003	U	0.0028	U	0.0034	U	0.0049	U	0.0031	U	0.0031	U	0.9	U	-		1.9	U	-		0.0031	U	0.0034	U	0.0032	U	0.0033	U	0.77	U	-	
1,2-Dibromoethane	106-93-4	mg/kg	NS	NS	NS	NS	0.0012	U	0.001	U	0.00094	U	0.0012	U	0.0016	U	0.001	U	0.001	U	0.3	U	-		0.62	U	-		0.001	U	0.003		0.0011	U	0.0011	U	0.26	U	-	
1,2-Dichlorobenzene	95-50-1	mg/kg	1.1	100	500	1.1	0.0024	U	0.002	U	0.0019	U	0.0023	U	0.0032	U	0.0021	U	0.0045		0.6	U	-		1.2	U	-		0.0021	U	0.00024	J	0.0022	U	0.0022	U	0.51	U	-	
1,2-Dichloroethane	107-06-2	mg/kg	0.02	5.8	30	0.02	0.0012	U	0.001	U	0.00094	U	0.0012	U	0.0016	U	0.001	U	0.001	U	0.3	U	-		0.62	U	-		0.001	U	0.0011	U	0.0011	U	0.0011	U	0.26	U	-	
1,2-Dichloroethene, Total	540-59-0	mg/kg	NS	NS	NS	NS	0.0012	U	0.001	U	0.00094	U	0.0012	U	0.0016	U	0.001	U	0.001	U	0.3	U	-		0.62	U	-		0.001	U	0.0011	U	0.0011	U	0.0011	U	0.26	U	-	
1,2-Dichloropropane	78-87-5	mg/kg	NS	NS	NS	NS	0.0012	U	0.001	U	0.00094	U	0.0012	U	0.0016	U	0.001	U	0.001	U	0.3	U	-		0.62	U	-		0.001	U	0.0011	U	0.0011	U	0.0011	U	0.26	U	-	
1,3,5-Trimethylbenzene	108-67-8	mg/kg	3.1	100	500	3.1	0.0024	U	0.002	U	0.0019	U	0.00063	J	0.0032	U	0.004		0.0025		38		43		120		-		0.017		0.047		0.0026		0.0014	J	25		-	
1,3-Dichlorobenzene	541-73-1	mg/kg	2.6	38	280	2.6	0.0024	U	0.002	U	0.0019	U	0.0023	U	0.0032	U	0.0021	U	0.0021	U	0.6	U	-		1.2	U	-		0.0021	U	0.0023	U	0.0022	U	0.0022	U	0.51	U	-	
1,3-Dichloropropane	142-28-9	mg/kg	NS	NS	NS	NS	0.0024	U	0.002	U	0.0019	U	0.0023	U	0.0032	U	0.0021	U	0.0021	U	0.6	U	-		1.2	U	-		0.0021	U	0.0023	U	0.0022	U	0.0022	U	0.51	U	-	
1,3-Dichloropropene, Total	542-75-6	mg/kg	NS	NS	NS	NS	0.0006	U	0.0005	U	0.00047	U	0.00058	U	0.00081	U	0.00052	U	0.00052	U	0.15	U	-		0.31	U	-		0.00052	U	0.00057	U	0.00054	U	0.00054	U	0.13	U	-	
1,4-Dichlorobenzene	106-46-7	mg/kg	1.8	24	130	1.8	0.0024	U	0.002	U	0.0019	U	0.0023	U	0.0032	U	0.0021	U	0.0005	J	0.6	U	-		1.2	U	-		0.0021	U	0.0023	U	0.0022	U	0.0022	U	0.51	U	-	
1,4-Dioxane	123-91-1	mg/kg	0.1	5.7	36	0.1	0.096	U	0.08	U	0.075	U	0.092	U	0.13	U	0.082	U	0.082	U	24	U	-		50	U	-		0.083	U	0.092	U	0.086	U	0.087	U	20	U	-	
2,2-Dichloropropane	594-20-7	mg/kg	NS	NS	NS	NS	0.0024	U	0.002	U	0.0019	U	0.0023	U	0.0032	U	0.0021	U	0.0021	U	0.6	U	-		1.2	U	-		0.0021	U	0.0023	U	0.0022	U	0.0022	U	0.51	U	-	
2-Butanone (MEK)	78-93-3	mg/kg	0.1	100	500	0.1	0.012	U	0.01	U	0.0094	U	0.012		0.016	U	0.0038	J	0.01	U	3	U	-		6.2	U	-		0.01	U	0.0062	J	0.011	U	0.011	U	2.6	U	-	
2-Hexanone	591-78-6	mg/kg	NS	NS	NS	NS	0.012	U	0.01	U	0.0094	U	0.012	U	0.016	U	0.01	U	0.01	U	3	U	-		6.2	U	-		0.01	U	0.011	U	0.011	U	0.011	U	2.6	U	-	
4-Methyl-2-pentanone(MIBK)	108-10-1	mg/kg	NS	NS	NS	NS	0.012	U	0.01	U	0.0094	U	0.012	U	0.016	U	0.01	U	0.01	U	3	U	-		6.2	U	-		0.01	U	0.011	U	0.011	U	0.011	U	2.6	U	-	
Acetone	67-64-1	mg/kg	0.03	100	500	0.03	0.012	U	0.008	J	0.0094	U	0.11		0.02		0.014		0.11		3	U	-		6.2	U	-		0.011	U	0.011	U	0.0096	J	2.6	U	-	
Acrylonitrile	107-13-1	mg/kg	NS	NS	NS	NS	0.0048	U	0.004	U	0.0037	U	0.0046	U	0.0065	U	0.0041	U	0.0041	U	1.2	U	-		2.5	U	-		0.0042	U	0.0046	U	0.0043	U	0.0044	U	1	U	-	
Benzene	71-43-2	mg/kg	0.06	3.7	20	0.06	0.0006	U	0.0005	U	0.00047	U	0.0003	J	0.00081	U	0.01		0.0086		0.15	U	-		0.31	U	-		0.00052	U	0.00057	U	0.00052	J	0.00035	J	0.043	J	-	
Bromobenzene	108-86-1	mg/kg	NS	NS	NS	NS	0.0024	U	0.002	U	0.0019	U	0.0023	U	0.0032	U	0.0021	U	0.0021	U	0.6	U	-		1.2	U	-		0.0021	U	0.0023	U	0.0022	U	0.0022	U	0.51	U	-	
Bromochloromethane	74-97-5	mg/kg	NS	NS	NS	NS	0.0024	U	0.002	U	0.0019	U	0.0023	U	0.0032	U	0.0021	U	0.0021	U	0.6	U	-		1.2	U	-		0.0021	U	0.0023	U	0.0022	U	0.0022	U	0.51	U	-	
Bromodichloromethane	75-27-4	mg/kg	NS	NS	NS	NS	0.0006	U	0.0005	U	0.00047	U	0.00058	U	0.00081	U	0.00052	U	0.00052	U	0.15	U	-		0.31	U	-		0.00052	U	0.00057	U	0.00054	U	0.00054	U	0.13	U	-	
Bromoform	75-25-2	mg/kg	NS	NS	NS	NS	0.0048	U	0.004	U	0.0037	U	0.0046	U	0.0065	U	0.0041	U	0.0041	U	1.2	U	-		2.5	U	-		0.0042	U	0.0046	U	0.0043	U	0.0044	U	1	U	-	
Bromomethane	74-83-9	mg/kg	NS	NS	NS	NS	0.0024	U	0.002	U	0.0019	U	0.0023	U	0.0032	U	0.0021	U	0.0021	U	0.6	U	-		1.2	U	-		0.0021	U	0.0023	U	0.0022	U	0.0022	U	0.51	U	-	
Carbon disulfide	75-15-0	mg/kg	NS	NS	NS	NS	0.012	U	0.01	U	0.0094	U	0.012	U	0.016	U	0.01	U	0.01	U	3	U	-		6.2	U	-		0.01	U	0.011	U	0.011	U	0.011	U	2.6	U	-	
Carbon tetrachloride	56-23-5	mg/kg	0.76	7.1	41	0.76	0.0012	U	0.001	U	0.00094	U	0.0012	U	0.0016	U	0.001	U	0.001	U	0.3	U	-		0.62	U	-		0.001	U	0.0011	U	0.0011	U	0.0011	U	0.26	U	-	
Chlorobenzene	108-90-7	mg/kg	4.5	100	500	4.5	0.0006	U	0.0005	U	0.00047	U	0.00058	U	0.00081	U	0.00052	U	0.00052	U	0.15	U	-		0.31	U	-		0.00052	U	0.00057	U	0.00054	U	0.00054	U	0.13	U	-	
Chloroethane	75-00-3	mg/kg	NS	NS	NS	NS	0.0024	U	0.002	U	0.0019	U	0.0023	U	0.0032	U	0.0021	U	0.0021	U	0.6	U	-		1.2	U	-		0.0021	U	0.0023	U	0.0022	U	0.0022	U	0.51	U	-	
Chloroform	67-66-3	mg/kg	0.37	24	180	0.37	0.0018	U	0.0015	U	0.0014	U	0.0017	U	0.0024	U	0.0015	U	0.0015	U	0.45	U	-		0.93	U	-		0.0016	U	0.0017	U	0.0016	U	0.0016	U	0.38	U	-	
Chloromethane	74-87-3	mg/kg	NS	NS	NS	NS	0.0048	U	0.004	U	0.0037	U	0.0046	U	0.0065	U	0.0041	U	0.0041	U	1.2	U	-		2.5	U	-		0.0042	U	0.0046	U	0.0043	U	0.0044	U	1	U	-	
cis-1,2-Dichloroethene	156-59-2	mg/kg	0.19	41	500	0.19	0.0012	U	0.001	U	0.00094	U	0.0012	U	0.0016	U	0.001	U	0.001	U	0.3	U	-		0.62	U	-		0.001	U	0.0011	U	0.0011	U	0.0011	U	0.26	U	-	
cis-1,3-Dichloropropene	10061-01-5	mg/kg	NS	NS	NS	NS	0.0006	U	0.0005	U	0.00047	U	0.00058	U	0.00081	U	0.00052	U	0.00052	U	0.15	U	-		0.31	U	-		0.00052	U	0.00057	U	0.00054	U	0.00054	U	0.13	U	-	
Cyclohexane	110-82-7	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Dibromochloromethane	124-48-1	mg/kg	NS	NS	NS	NS	0.0012	U	0.001	U	0.00094	U	0.0012	U	0.0016	U	0.001	U	0.001	U	0.3	U	-		0.62	U	-		0.001	U	0.0011	U	0.0011	U	0.0011	U	0.26	U	-	
Dibromomethane	74-95-3	mg/kg	NS	NS	NS	NS	0.0024	U	0.002	U	0.0019	U	0.0023	U	0.0032	U	0.0021	U	0.0021	U	0.6	U	-		1.2	U	-		0.0021	U	0.0023	U	0.0022	U	0.0022	U	0.51	U	-	
Dichlorodifluoromethane	75-71-8	mg/kg	NS	NS	NS	NS	0.012	U	0.01	U	0.0094	U	0.012	U	0.016	U	0.01	U	0.01	U	3	U	-		6.2	U	-		0.01	U	0.011	U	0.011	U	0.011	U	2.6	U	-	
Ethyl ether	60-29-7	mg/kg	NS	NS	NS	NS	0.0024	U	0.002	U	0.0019	U	0.0023	U	0.0032	U	0.0021	U	0.0021	U	0.6	U	-		1.2	U	-		0.0021	U	0.0023	U	0.0022	U	0.0022	U	0.51	U	-	
Ethylbenzene	100-41-4	mg/kg	1	76	390	1	0.00033	J	0.001	U	0.00094	U	0.00033	J	0.00069	J	0.0042		0.18		32		-		78		-		0.0011		0.0088		0.00046	J	0.0044		27		-	
Freon 113	76-13-1	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Hexachlorobutadiene	87-68-3	mg/kg	NS	NS	NS	NS	0.0048	U	0.004	U	0.0037	U	0.0046	U	0.0065	U	0.0041	U	0.0041	U	1.2	U	-		2.5	U	-		0.0042	U	0.0046	U	0.0043	U	0.0044	U	1	U	-	
Isopropylbenzene	98-82-8	mg/kg	NS	NS	NS	NS	0.0012	U	0.001	U	0.00094	U	0.00036	J	0.0016	U	0.0028		0.022		7.8		-		29		-		0.0016		0.046		0.00039	J	0.0009	J	5.2		-	
m,p-Xylene	179601-23-1	mg/kg	NS	NS	NS	NS	0.0024	U	0.002	U	0.0019	U	0.0023	U	0.0032	U	0.011		0.0074		44		-		75		-		0.0036		0.0027		0.00082	J	0.0017	J	68		-	
Methyl Acetate	79-20-9	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Methyl Tert Butyl Ether	1634-04-4	mg/kg	0.1	100	500	0.1	0.0024	U	0.002	U	0.0019	U	0.0023	U	0.0032	U	0.0021	U	0.0021	U	0.6	U	-		1.2	U	-		0.0021	U	0.0023	U	0.0022	U	0.0022	U	0.51	U	-	
Methylcyclohexane	108-87-2	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Methylene chloride	75-09-2	mg/kg	0.05	81	500	0.05	0.006	U	0.005	U	0.0047	U	0.0058	U	0.0081	U	0.0052	U	0.0052	U	1.5	U	-		3.1	U	-		0.0052	U	0.0057	U	0.0054	U	0.0054	U	1.3	U	-	
Naphthalene	91-20-3	mg/kg	12	100	500	12	0.0048	U	0.004	U	0.0037	U	0.0046	U	0.0065	U	0.0082		0.16		14		-		40		-		0.0042		0.064		0.0014	J	0.0037	J	12		-	
n-Butylbenzene	104-51-8	mg/kg	18	100	500	18	0.0012	U	0.001	U	0.00094	U	0.0025		0.00035	J	0.0015		0.044		8.4		-		37		-		0.0038		0.15		0.0011		0.0019		9.4		-	
n-Propylbenzene	103-65-1	mg/kg	5	100	500	5	0.0012	U	0.001	U	0.00094	U	0.0016		0.00043	J	0.0066		0.062		27		-		110		-		0.0055		0.065		0.00076	J	0.0031		19		-	
o-Chlorotoluene	95-49-8	mg/kg	NS	NS	NS	NS	0.0024	U	0.002	U	0.0019	U	0.0023	U	0.0032	U	0.0021	U	0.0021	U	0.6	U	-		1.2	U	-		0.0021	U	0.0023	U	0.0022	U	0.0022	U	0.51	U	-	
o-Xylene	95-47-6	mg/kg	NS	NS	NS	NS	0.0012	U	0.001	U	0.00094	U	0.0012	U	0.0016	U	0.0016		0.013		4.9		-		1.9		-		0.00045	J	0.0067		0.0011	U	0.0011	U	4.2		-	
p-Chlorotoluene	106-43-4	mg/kg	NS	NS	NS	NS	0.0024	U	0.002	U	0.0019	U	0.0023	U	0.0032	U	0.0021	U	0.0021	U	0.6	U	-		1.2	U	-		0.0021	U	0.0023	U	0.0022	U	0.0022	U	0.51	U	-	
p-Diethylbenzene	105-05-5	mg/kg	NS	NS	NS	NS	0.0024	U	0.002	U	0.0019	U	0.0031		0.00068	J	0.0021	U	0.04		44		-		14		-		0.0021	U	0.15		0.0022	U	0.0012	J	34		-	
p-Ethyltoluene	622-96-8	mg/kg	NS	NS	NS	NS	0.0024	U	0.002	U	0.0019	U	0.0013	J	0.0032	U	0.0081		0.022		64		-		130		-		0.016		0.036		0.0022		0.0022		34		-	
p-Isopropyltoluene	99-87-6	mg/kg	NS	NS	NS	NS	0.0012	U	0.001	U	0.00094	U	0.00051	J	0.0016	U	0.0005	J	0.0064		1.3		-		6.1		-		0.00078	J	0.012		0.00042	J	0.00026	J	1.6		-	
sec-Butylbenzene	135-98-8	mg/kg	25	100	500	25	0.0012	U	0.001	U	0.00094	U	0.0012		0.0016	U	0.00091	J	0.017		4		-		15		-		0.0021		0.18		0.0014		0.00082	J	3		-	
Styrene	100-42-5	mg/kg	NS	NS	NS	NS	0.0012	U	0.001	U	0.00094	U	0.0012	U	0.0016	U	0.001	U	0.0005	J	0.3	U	-		0.37	J	-		0.001	U	0.0011	U	0.0011	U	0.00064	J	0.26	U	-	
tert-Butylbenzene	98-06-6	mg/kg	11	100	500	11	0.0024	U	0.002	U	0.0019	U	0.00022	J	0.0032	U	0.0021	U	0.00093	J	0.6	U	-		0.49	J	-		0.00019	J	0.0039		0.00015	J	0.0022	U	0.51	U	-	
Tetrachloroethene	127-18-4	mg/kg	1.3	18	81	1.3	0.0006	U	0.0005	U	0.00047	U	0.00058	U	0.00081	U	0.00052	U	0.00052	U	0.15	U	-		0.31	U	-		0.00052	U	0.00057	U	0.00054	U	0.00054	U	0.13	U	-	
Toluene	108-88-3	mg/kg	0.7	100	500	0.7	0.0012	U	0.001	U	0.00094	U	0.0012	U	0.0016	U	0.001		0.0017		0.3	U	-		0.62	U	-		0.001	U	0.0011	U	0.0011	U	0.0011	U	0.18	J	-	
trans-1,2-Dichloroethene	156-60-5	mg/kg	0.19	100	500	0.19	0.0018	U	0.0015	U	0.0014	U	0.0017	U	0.0024	U	0.0015	U	0.0015	U	0.45	U	-		0.93	U	-		0.0016	U	0.0017	U	0.0016	U	0.0016	U	0.38	U	-	
trans-1,3-Dichloropropene	10061-02-6	mg/kg	NS	NS	NS	NS	0.0012	U	0.001	U	0.00094	U	0.0012	U	0.0016	U	0.001	U	0.001	U	0.3	U	-		0.62	U	-		0.001	U	0.0011	U	0.0011	U	0.0011	U	0.26	U	-	
trans-1,4-Dichloro-2-butene	110-57-6	mg/kg	NS	NS	NS	NS	0.006	U	0.005	U	0.0047	U	0.0058	U	0.0081	U	0.0052	U	0.0052	U	1.5	U	-		3.1	U	-		0.0052	U	0.0057	U	0.0054	U	0.0054	U	1.3	U	-	
Trichloroethene	79-01-6	mg/kg	0.47	6.4	54	0.47	0.0006	U	0.0005	U	0.00047	U	0.00058	U	0.00081	U	0.00052	U	0.00052	U	0.15	U	-		0.31	U	-		0.00052	U	0.00057	U	0.00054	U	0.00054	U	0.13	U	-	
Trichlorofluoromethane	75-69-4	mg/kg	NS	NS	NS	NS	0.0048	U	0.004	U	0.0037	U	0.0046	U	0.0065	U	0.0041	U	0.0041	U	1.2	U	-		2.5	U	-		0.0042	U	0.0046	U	0.0043	U	0.0044	U	1	U	-	
Vinyl acetate	108-05-4	mg/kg	NS	NS	NS	NS	0.012	U	0.01	U	0.0094	U	0.012	U	0.016	U	0.01	U	0.01	U	3	U	-		6.2	U	-		0.01	U	0.011	U	0.011	U	0.011	U	2.6	U	-	
Vinyl chloride	75-01-4	mg/kg	0.03	0.48	7.1	0.03	0.0012	U	0.001	U	0.00094	U	0.0012	U	0.0016	U	0.001	U	0.001	U	0.3	U	-		0.62	U	-		0.001	U	0.0011	U	0.0011	U	0.0011	U	0.26	U	-	
Xylene (total)	1330-20-7	mg/kg	0.26	100	500	1.2	0.0012	U	0.001	U	0.00094	U	0.0012	U	0.0016	U	0.013		0.02		46		-		77		-		0.0041	J	0.0094		0.00082	J	0.0017	J	72		-	
Total TIC, Volatile	-	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs
Concentration Exceeds NYSDEC RRUSCOs
Concentration Exceeds NYSDEC UUSCOs
Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

TABLE 5.1 A
SUMMARY OF SOIL SAMPLING RESULTS—VOCs

SAMPLE ID:							SB-37 (4-4.5)		SB-37 (8.5-9)		SB-37 (11.5-12)		SB-37 (17-17.5)		SB-38 (2-2.5)		SB-38 (5.5-6)		SB-38 (12.5-13)		SB-38 (16.5-17)		SB-39 (2.5-3)		SB-39 (9.5-10)		SB-39 (14-14.5)		SB-39 (15.5-16)		SB-40 (1-1.5)		SB-40 (8-9)		SB-40 (13.5-14)		SB-41 (0.5-1.5)		SB-41 (7-8)	
LAB SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	L2548309-03		L2548309-02		L2548309-04		L2548309-01		L2547764-02		L2547764-03		L2547764-04		L2547764-05		L2548309-05		L2548309-06		L2548309-07		L2548309-09		L2550303-01		L2550303-02		L2550303-03		L2550303-04		L2550303-05	
SAMPLE DATE:							7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/30/2025		7/30/2025		7/30/2025		7/30/2025		7/31/2025		7/31/2025		7/31/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
VOCs (SW846 8260D)																																								
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	NS	NS	NS	NS	0.00057	U	0.00053	U	0.00052	U	0.00089	U	0.00056	U	0.00057	U	0.00047	U	0.00047	U	0.0005	U	0.00047	U	0.028	U	0.00046	U	0.00077	U	0.00069	U	0.00055	U	0.00061	U	0.00051	U
1,1,1-Trichloroethane	71-55-6	mg/kg	0.68	100	500	0.68	0.00057	U	0.00053	U	0.00052	U	0.00089	U	0.00056	U	0.00057	U	0.00047	U	0.00047	U	0.0005	U	0.00047	U	0.028	U	0.00046	U	0.00077	U	0.00069	U	0.00055	U	0.00061	U	0.00051	U
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	NS	NS	NS	NS	0.00057	U	0.00053	U	0.00052	U	0.00089	U	0.00056	U	0.00057	U	0.00047	U	0.00047	U	0.0005	U	0.00047	U	0.028	U	0.00046	U	0.00077	U	0.00069	U	0.00055	U	0.00061	U	0.00051	U
1,1,2-Trichloroethane	79-00-5	mg/kg	NS	NS	NS	NS	0.0011	U	0.001	U	0.001	U	0.0018	U	0.0011	U	0.0011	U	0.00094	U	0.00093	U	0.001	U	0.00094	U	0.056	U	0.00091	U	0.0015	U	0.0014	U	0.0011	U	0.0012	U	0.001	U
1,1-Dichloroethane	75-34-3	mg/kg	0.27	47	240	0.27	0.0011	U	0.001	U	0.001	U	0.0018	U	0.0011	U	0.0011	U	0.00094	U	0.00093	U	0.001	U	0.00094	U	0.056	U	0.00091	U	0.0015	U	0.0014	U	0.0011	U	0.0012	U	0.001	U
1,1-Dichloroethene	75-35-4	mg/kg	0.24	0.98	5.1	0.33	0.0011	U	0.001	U	0.001	U	0.0018	U	0.0011	U	0.0011	U	0.00094	U	0.00093	U	0.001	U	0.00094	U	0.056	U	0.00091	U	0.0015	U	0.0014	U	0.0011	U	0.0012	U	0.001	U
1,1-Dichloropropene	563-58-6	mg/kg	NS	NS	NS	NS	0.00057	U	0.00053	U	0.00052	U	0.00089	U	0.00056	U	0.00057	U	0.00047	U	0.00047	U	0.0005	U	0.00047	U	0.028	U	0.00046	U	0.00077	U	0.00069	U	0.00055	U	0.00061	U	0.00051	U
1,2,3-Trichlorobenzene	87-61-6	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0021	U	0.0035	U	0.0023	U	0.0023	U	0.0019	U	0.0019	U	0.002	U	0.0019	U	0.11	U	0.0018	U	0.0031	U	0.0028	U	0.0022	U	0.0024	U	0.002	U
1,2,3-Trichloropropane	96-18-4	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0021	U	0.0035	U	0.0023	U	0.0023	U	0.0019	U	0.0019	U	0.002	U	0.0019	U	0.11	U	0.0018	U	0.0031	U	0.0028	U	0.0022	U	0.0024	U	0.002	U
1,2,4,5-Tetramethylbenzene	95-93-2	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0021	U	0.0035	U	0.0023	U	0.0023	U	0.0019	U	0.0019	U	0.002	U	0.0019	U	0.086	J	0.011		0.0031	U	0.0007	J	0.061		0.00025	J	0.002	U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0021	U	0.0035	U	0.0023	U	0.0023	U	0.0019	U	0.0019	U	0.002	U	0.0019	U	0.11	U	0.0018	U	0.0031	U	0.0028	U	0.0022	U	0.0024	U	0.002	U
1,2,4-Trimethylbenzene	95-63-6	mg/kg	5.9	100	500	5.9	0.0023	U	0.0021	U	0.0021	U	0.0006	J	0.0048		0.0023	U	0.0019	U	0.0019	U	0.0007	J	0.00051	J	0.029	J	0.00049	J	0.0031	U	0.0013	J	0.0039		0.0024	U	0.002	U
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	NS	NS	NS	NS	0.0034	U	0.0032	U	0.0031	U	0.0053	U	0.0034	U	0.0034	U	0.0028	U	0.0028	U	0.003	U	0.0028	U	0.17	U	0.0027	U	0.0046	U	0.0041	U	0.0033	U	0.0037	U	0.003	U
1,2-Dibromoethane	106-93-4	mg/kg	NS	NS	NS	NS	0.0011	U	0.001	U	0.001	U	0.0018	U	0.0011	U	0.0011	U	0.00094	U	0.00093	U	0.001	U	0.00094	U	0.056	U	0.00091	U	0.0015	U	0.0014	U	0.0011	U	0.0012	U	0.001	U
1,2-Dichlorobenzene	95-50-1	mg/kg	1.1	100	500	1.1	0.0023	U	0.0021	U	0.0021	U	0.0035	U	0.0023	U	0.0023	U	0.0019	U	0.0019	U	0.002	U	0.0019	U	0.11	U	0.0018	U	0.0031	U	0.0028	U	0.0022	U	0.0024	U	0.002	U
1,2-Dichloroethane	107-06-2	mg/kg	0.02	5.8	30	0.02	0.0011	U	0.001	U	0.001	U	0.0018	U	0.0011	U	0.0011	U	0.00094	U	0.00093	U	0.001	U	0.00094	U	0.056	U	0.00091	U	0.0015	U	0.0014	U	0.0011	U	0.0012	U	0.001	U
1,2-Dichloroethene, Total	540-59-0	mg/kg	NS	NS	NS	NS	0.0011	U	0.001	U	0.001	U	0.0018	U	0.0011	U	0.0011	U	0.00094	U	0.00093	U	0.001	U	0.00094	U	0.056	U	0.00091	U	0.0015	U	0.0014	U	0.0011	U	0.0012	U	0.001	U
1,2-Dichloropropane	78-87-5	mg/kg	NS	NS	NS	NS	0.0011	U	0.001	U	0.001	U	0.0018	U	0.0011	U	0.0011	U	0.00094	U	0.00093	U	0.001	U	0.00094	U	0.056	U	0.00091	U	0.0015	U	0.0014	U	0.0011	U	0.0012	U	0.001	U
1,3,5-Trimethylbenzene	108-67-8	mg/kg	3.1	100	500	3.1	0.0023	U	0.0021	U	0.0021	U	0.0035	U	0.0018	J	0.0023	U	0.0019	U	0.0019	U	0.002	U	0.0019	U	0.11	U	0.0018	U	0.0031	U	0.00089	J	0.0083		0.0024	U	0.002	U
1,3-Dichlorobenzene	541-73-1	mg/kg	2.6	38	280	2.6	0.0023	U	0.0021	U	0.0021	U	0.0035	U	0.0023	U	0.0023	U	0.0019	U	0.0019	U	0.002	U	0.0019	U	0.11	U	0.0018	U	0.0031	U	0.0028	U	0.0022	U	0.0024	U	0.002	U
1,3-Dichloropropane	142-28-9	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0021	U	0.0035	U	0.0023	U	0.0023	U	0.0019	U	0.0019	U	0.002	U	0.0019	U	0.11	U	0.0018	U	0.0031	U	0.0028	U	0.0022	U	0.0024	U	0.002	U
1,3-Dichloropropene, Total	542-75-6	mg/kg	NS	NS	NS	NS	0.00057	U	0.00053	U	0.00052	U	0.00089	U	0.00056	U	0.00057	U	0.00047	U	0.00047	U	0.0005	U	0.00047	U	0.028	U	0.00046	U	0.00077	U	0.00069	U	0.00055	U	0.00061	U	0.00051	U
1,4-Dichlorobenzene	106-46-7	mg/kg	1.8	24	130	1.8	0.0023	U	0.0021	U	0.0021	U	0.0035	U	0.0023	U	0.0023	U	0.0019	U	0.0019	U	0.002	U	0.0019	U	0.11	U	0.0018	U	0.0031	U	0.0028	U	0.0022	U	0.0024	U	0.002	U
1,4-Dioxane	123-91-1	mg/kg	0.1	5.7	36	0.1	0.092	U	0.084	U	0.083	U	0.14	U	0.09	U	0.092	U	0.075	U	0.075	U	0.08	U	0.075	U	4.5	U	0.073	U	0.12	U	0.11	U	0.088	U	0.098	U	0.081	U
2,2-Dichloropropane	594-20-7	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0021	U	0.0035	U	0.0023	U	0.0023	U	0.0019	U	0.0019	U	0.002	U	0.0019	U	0.11	U	0.0018	U	0.0031	U	0.0028	U	0.0022	U	0.0024	U	0.002	U
2-Butanone (MEK)	78-93-3	mg/kg	0.1	100	500	0.1	0.011	U	0.01	U	0.01	U	0.018	U	0.011	U	0.011	U	0.0094	U	0.0093	U	0.01	U	0.0094	U	0.56	U	0.0091	U	0.015	U	0.014	U	0.011	U	0.012	U	0.0026	J
2-Hexanone	591-78-6	mg/kg	NS	NS	NS	NS	0.011	U	0.01	U	0.01	U	0.018	U	0.011	U	0.011	U	0.0094	U	0.0093	U	0.01	U	0.0094	U	0.56	U	0.0091	U	0.015	U	0.014	U	0.011	U	0.012	U	0.01	U
4-Methyl-2-pentanone(MIBK)	108-10-1	mg/kg	NS	NS	NS	NS	0.011	U	0.01	U	0.01	U	0.018	U	0.011	U	0.011	U	0.0094	U	0.0093	U	0.01	U	0.0094	U	0.56	U	0.0091	U	0.015	U	0.014	U	0.011	U	0.012	U	0.01	U
Acetone	67-64-1	mg/kg	0.03	100	500	0.03	0.011	U	0.01	U	0.01	U	0.018	U	0.011	U	0.011	U	0.0046	J	0.0088	J	0.01	U	0.0094	U	0.56	U	0.015	U	0.015	U	0.024		0.011	U	0.012	U	0.0086	J
Acrylonitrile	107-13-1	mg/kg	NS	NS	NS	NS	0.0046	U	0.0042	U	0.0041	U	0.0071	U	0.0045	U	0.0046	U	0.0038	U	0.0037	U	0.004	U	0.0038	U	0.22	U	0.0036	U	0.0062	U	0.0055	U	0.0044	U	0.0049	U	0.004	U
Benzene	71-43-2	mg/kg	0.06	3.7	20	0.06	0.00057	U	0.00053	U	0.00052	U	0.00089	U	0.00056	U	0.00057	U	0.00047	U	0.00047	U	0.0005	U	0.00047	U	0.028	U	0.00046	U	0.00077	U	0.00069	U	0.00094		0.00061	U	0.00051	U
Bromobenzene	108-86-1	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0021	U	0.0035	U	0.0023	U	0.0023	U	0.0019	U	0.0019	U	0.002	U	0.0019	U	0.11	U	0.0018	U	0.0031	U	0.0028	U	0.0022	U	0.0024	U	0.002	U
Bromochloromethane	74-97-5	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0021	U	0.0035	U	0.0023	U	0.0023	U	0.0019	U	0.0019	U	0.002	U	0.0019	U	0.11	U	0.0018	U	0.0031	U	0.0028	U	0.0022	U	0.0024	U	0.002	U
Bromodichloromethane	75-27-4	mg/kg	NS	NS	NS	NS	0.00057	U	0.00053	U	0.00052	U	0.00089	U	0.00056	U	0.00057	U	0.00047	U	0.00047	U	0.0005	U	0.00047	U	0.028	U	0.00046	U	0.00077	U	0.00069	U	0.00055	U	0.00061	U	0.00051	U
Bromoform	75-25-2	mg/kg	NS	NS	NS	NS	0.0046	U	0.0042	U	0.0041	U	0.0071	U	0.0045	U	0.0046	U	0.0038	U	0.0037	U	0.004	U	0.0038	U	0.22	U	0.0036	U	0.0062	U	0.0055	U	0.0044	U	0.0049	U	0.004	U
Bromomethane	74-83-9	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0021	U	0.0035	U	0.0023	U	0.0023	U	0.0019	U	0.0019	U	0.002	U	0.0019	U	0.11	U	0.0018	U	0.0031	U	0.0028	U	0.0022	U	0.0024	U	0.002	U
Carbon disulfide	75-15-0	mg/kg	NS	NS	NS	NS	0.011	U	0.01	U	0.01	U	0.018	U	0.011	U	0.011	U	0.0094	U	0.0093	U	0.01	U	0.0094	U	0.56	U	0.0091	U	0.015	U	0.014	U	0.011	U	0.012	U	0.01	U
Carbon tetrachloride	56-23-5	mg/kg	0.76	7.1	41	0.76	0.0011	U	0.001	U	0.001	U	0.0018	U	0.0011	U	0.0011	U	0.00094	U	0.00093	U	0.001	U	0.00094	U	0.056	U	0.00091	U	0.0015	U	0.0014	U	0.0011	U	0.0012	U	0.001	U
Chlorobenzene	108-90-7	mg/kg	4.5	100	500	4.5	0.00057	U	0.00053	U	0.00052	U	0.00089	U	0.00056	U	0.00057	U	0.00047	U	0.00047	U	0.0005	U	0.00047	U	0.028	U	0.00046	U	0.00077	U	0.00069	U	0.00055	U	0.00061	U	0.00051	U
Chloroethane	75-00-3	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0021	U	0.0035	U	0.0023	U	0.0023	U	0.0019	U	0.0019	U	0.002	U	0.0019	U	0.11	U	0.0018	U	0.0031	U	0.0028	U	0.0022	U	0.0024	U	0.002	U
Chloroform	67-66-3	mg/kg	0.37	24	180	0.37	0.0017	U	0.0016	U	0.00017	J	0.0027	U	0.0017	U	0.00028	J	0.0014	U	0.0014	U	0.0015	U	0.0014	U	0.084	U	0.0014	U	0.0023	U	0.0021	U	0.0016	U	0.0018	U	0.0015	U
Chloromethane	74-87-3	mg/kg	NS	NS	NS	NS	0.0046	U	0.0042	U	0.0041	U	0.0071	U	0.0045	U	0.0046	U	0.0038	U	0.0037	U	0.004	U	0.0038	U	0.22	U	0.0036	U	0.0062	U	0.0055	U	0.0044	U	0.0049	U	0.004	U
cis-1,2-Dichloroethene	156-59-2	mg/kg	0.19	41	500	0.19	0.0011	U	0.001	U	0.001	U	0.0018	U	0.0011	U	0.0011	U	0.00094	U	0.00093	U	0.001	U	0.00094	U	0.056	U	0.00091	U	0.0015	U	0.0014	U	0.0011	U	0.0012	U	0.001	U
cis-1,3-Dichloropropene	10061-01-5	mg/kg	NS	NS	NS	NS	0.00057	U	0.00053	U	0.00052	U	0.00089	U	0.00056	U	0.00057	U	0.00047	U	0.00047	U	0.0005	U	0.00047	U	0.028	U	0.00046	U	0.00077	U	0.00069	U	0.00055	U	0.00061	U	0.00051	U
Cyclohexane	110-82-7	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Dibromochloromethane	124-48-1	mg/kg	NS	NS	NS	NS	0.0011	U	0.001	U	0.001	U	0.0018	U	0.0011	U	0.0011	U	0.00094	U	0.00093	U	0.001	U	0.00094	U	0.056	U	0.00091	U	0.0015	U	0.0014	U	0.0011	U	0.0012	U	0.001	U
Dibromomethane	74-95-3	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0021	U	0.0035	U	0.0023	U	0.0023	U	0.0019	U	0.0019	U	0.002	U	0.0019	U	0.11	U	0.0018	U	0.0031	U	0.0028	U	0.0022	U	0.0024	U	0.002	U
Dichlorodifluoromethane	75-71-8	mg/kg	NS	NS	NS	NS	0.011	U	0.01	U	0.01	U	0.018	U	0.011	U	0.011	U	0.0094	U	0.0093	U	0.01	U	0.0094	U	0.56	U	0.0091	U	0.015	U	0.014	U	0.011	U	0.012	U	0.01	U
Ethyl ether	60-29-7	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0021	U	0.0035	U	0.0023	U	0.0023	U	0.0019	U	0.0019	U	0.002	U	0.0019	U	0.11	U	0.0018	U	0.0031	U	0.0028	U	0.0022	U	0.0024	U	0.002	U
Ethylbenzene	100-41-4	mg/kg	1	76	390	1	0.0011	U	0.001	U	0.001	U	0.0018	U	0.0029		0.00035	J	0.00094	U	0.00093	U	0.001	U	0.00094	U	0.011	J	0.00091	U	0.0015	U	0.0014	U	0.0053		0.0012	U	0.001	U
Freon 113	76-13-1	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Hexachlorobutadiene	87-68-3	mg/kg	NS	NS	NS	NS	0.0046	U	0.0042	J	0.0041	U	0.0071	U	0.0045	U	0.0046	U	0.0038	U	0.0037	U	0.004	U	0.0038	U	0.22	U	0.0036	U	0.0062	U	0.0055	U	0.0044	U	0.0049	U	0.004	U
Isopropylbenzene	98-82-8	mg/kg	NS	NS	NS	NS	0.0011	U	0.001	U	0.001	U	0.0018	U	0.00036	J	0.0011	U	0.00094	U	0.00093	U	0.001	U	0.00094	U	0.0093	J	0.0026		0.0015	U	0.00074	J	0.022		0.0012	U	0.001	U
m,p-Xylene	179601-23-1	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0021	U	0.0035	U	0.0091		0.00084	J	0.0019	U	0.0019	U	0.002	U	0.0019	U	0.11	U	0.0018	U	0.0031	U	0.001	J	0.0058		0.0024	U	0.002	U
Methyl Acetate	79-20-9	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Methyl Tert Butyl Ether	1634-04-4	mg/kg	0.1	100	500	0.1	0.0023	U	0.0021	U	0.0021	U	0.0035	U	0.0023	U	0.0023	U	0.0019	U	0.0019	U	0.002	U	0.0019	U	0.11	U	0.0018	U	0.0031	U	0.0028	U	0.0022	U	0.0024	U	0.002	U
Methylcyclohexane	108-87-2	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Methylene chloride	75-09-2	mg/kg	0.05	81	500	0.05	0.0057	U	0.0053	U	0.0052	U	0.0089	U	0.0056	U	0.0057	U	0.0047	U	0.0047	U	0.005	U	0.0047	U	0.28	U	0.0046	U	0.0077	U	0.0069	U	0.0055	U	0.0061	U	0.0051	U
Naphthalene	91-20-3	mg/kg	12	100	500	12	0.0046	U	0.0042	U	0.0041	U	0.0071	U	0.0045	U	0.0046	U	0.0038	U	0.0037	U	0.001	J	0.00081	J	0.16	J	0.0011	J	0.0062	U	0.003	J	0.011		0.0049	U	0.004	U
n-Butylbenzene	104-51-8	mg/kg	18	100	500	18	0.0011	U	0.001	U	0.001	U	0.0018	U	0.0011	U	0.0011	U	0.00094	U	0.00093	U	0.001	U	0.00094	U	0.056	U	0.015		0.0015	U	0.0065		0.049		0.0012	U	0.001	U
n-Propylbenzene	103-65-1	mg/kg	5	100	500	5	0.0011	U	0.001	U	0.001	U	0.0018	U	0.00085	J	0.0011	U	0.00094	U	0.00093	U	0.001	U	0.00094	U	0.056	U	0.0048		0.0015	U	0.0014	U	0.08		0.0012	U	0.001	U
o-Chlorotoluene	95-49-8	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0021	U	0.0035	U	0.0023	U	0.0023	U	0.0019	U	0.0019	U	0.002	U	0.0019	U	0.11	U	0.0018	U	0.0031	U	0.0028	U	0.0022	U	0.0024	U	0.002	U
o-Xylene	95-47-6	mg/kg	NS	NS	NS	NS	0.0011	U	0.001	U	0.001	U	0.0018	U	0.0012		0.0011	U	0.00094	U	0.00093	U	0.001	U	0.00094	U	0.056	U	0.00091	U	0.0015	U	0.0014	U	0.00076	J	0.0012	U	0.001	U
p-Chlorotoluene	106-43-4	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0021	U	0.0035	U	0.0023	U	0.0023	U	0.0019	U	0.0019	U	0.002	U	0.0019	U	0.11	U	0.0018	U	0.0031	U	0.0028	U	0.0022	U	0.0024	U	0.002	U
p-Diethylbenzene	105-05-5	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0021	U	0.0035	U	0.0023	U	0.0023	U	0.0019	U	0.0019	U	0.002	U	0.0019	U	0.12		0.012		0.0031	U	0.00042	J	0.023		0.0024	U	0.002	U
p-Ethyltoluene	622-96-8	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0021	U	0.0035	U	0.0025		0.0023	U	0.0019	U	0.0019	U	0.002	U	0.0019	U	0.11	U	0.00043	J	0.0031	U	0.0028	U	0.011		0.0024	U	0.002	U
p-Isopropyltoluene	99-87-6	mg/kg	NS	NS	NS	NS	0.0011	U	0.001	U	0.001	U	0.0018	U	0.0011	U	0.0011	U	0.00094	U	0.00093	U	0.001	U	0.00094	U	0.056	U	0.00091	U	0.0015	U	0.00026	J	0.0021		0.0012	U	0.001	U
sec-Butylbenzene	135-98-8	mg/kg	25	100	500	25	0.0011	U	0.001	U	0.001	U	0.0018	U	0.0011	U	0.0011	U	0.00094	U	0.00093	U	0.001	U	0.00094	U	0.038	J	0.0069		0.0015	U	0.0076		0.025		0.0012	U	0.001	U
Styrene	100-42-5	mg/kg	NS	NS	NS	NS	0.00069	J	0.00063	J	0.0006	J	0.0018	U	0.0011	U	0.0011	U	0.00094	U	0.00093	U	0.001	U	0.00094	U	0.056	U	0.00091	U	0.0015	U	0.0014	U	0.0011	U	0.0012	U	0.001	U
tert-Butylbenzene	98-06-6	mg/kg	11	100	500	11	0.0023	U	0.0021	U	0.0021	U	0.0035	U	0.0023	U	0.0023	U	0.0019	U	0.0019	U	0.002	U	0.0019	U	0.11	U	0.0018	U	0.0031	U	0.0004	J	0.0016	J	0.0024	U	0.002	U
Tetrachloroethene	127-18-4	mg/kg	1.3	18	81	1.3	0.00057	U	0.00023	J	0.00052	U	0.00089	U	0.00056	U	0.00057	U	0.00047	U	0.00047	U	0.0005	U	0.00023	J	0.028	U	0.00046	U	0.00077	U	0.00069	U	0.00055	U	0.00061	U	0.00051	U
Toluene	108-88-3	mg/kg	0.7	100	500	0.7	0.0011	U	0.001	U	0.001	U	0.0018	U	0.0011	U	0.0011	U	0.00094	U	0.00093	U	0.001	U	0.00094	U	0.056	U	0.00091	U	0.0015	U	0.0014	U	0.0014		0.0012	U	0.001	U
trans-1,2-Dichloroethene	156-60-5	mg/kg	0.19	100	500	0.19	0.0017	U	0.0016	U	0.0016	U	0.0027	U	0.0017	U	0.0017	U	0.0014	U	0.0014	U	0.0015	U	0.0014	U	0.084	U	0.0014	U	0.0023	U	0.0021	U	0.0016	U	0.0018	U	0.0015	U
trans-1,3-Dichloropropene	10061-02-6	mg/kg	NS	NS	NS	NS	0.0011	U	0.001	U	0.001	U	0.0018	U	0.0011	U	0.0011	U	0.00094	U	0.00093	U	0.001	U	0.00094	U	0.056	U	0.00091	U	0.0015	U	0.0014	U	0.0011	U	0.0012	U	0.001	U
trans-1,4-Dichloro-2-butene	110-57-6	mg/kg	NS	NS	NS	NS	0.0057	U	0.0053	U	0.0052	U	0.0089	U	0.0056	U	0.0057	U	0.0047	U	0.0047	U	0.005	U	0.0047	U	0.28	U	0.0046	U	0.0077	U	0.0069	U	0.0055	U	0.0061	U	0.0051	U
Trichloroethene	79-01-6	mg/kg	0.47	6.4	54	0.47	0.00057	U	0.00053	U	0.00052	U	0.00089	U	0.00056	U	0.00057	U	0.00047	U	0.00047	U	0.0005	U	0.00047	U	0.028	U	0.00046	U	0.00077	U	0.00069	U	0.00055	U	0.00061	U	0.00051	U
Trichlorofluoromethane	75-69-4	mg/kg	NS	NS	NS	NS	0.0046	U	0.0042	U	0.0041	U	0.0071	U	0.0045	U	0.0046	U	0.0038	U	0.0037	U	0.004	U	0.0038	U	0.22	U	0.0036	U	0.0062	U	0.0055	U	0.0044	U	0.0049	U	0.004	U
Vinyl acetate	108-05-4	mg/kg	NS	NS	NS	NS	0.011	U	0.01	U	0.01	U	0.018	U	0.011	U	0.011	U	0.0094	U	0.0093	U	0.01	U	0.0094	U	0.56	U	0.0091	U	0.015	U	0.014	U	0.011	U	0.012	U	0.01	U
Vinyl chloride	75-01-4	mg/kg	0.03	0.48	7.1	0.03	0.0011	U	0.001	U	0.001	U	0.0018	U	0.0011	U	0.0011	U	0.00094	U	0.00093	U	0.001	U	0.00094	U	0.056	U	0.00091	U	0.0015	U	0.0014	U	0.0011	U	0.0012	U	0.001	U
Xylene (total)	1330-20-7	mg/kg	0.26	100	500	1.2	0.0011	U	0.001	U	0.001	U	0.0018	U	0.01		0.00084	J	0.00094	U	0.00093	U	0.001	U

TABLE 5.1 A
SUMMARY OF SOIL SAMPLING RESULTS—VOCs

SAMPLE ID:							SB-42 (3-4)		SB-42 (8-9)		SB-43 (0.5-1.5)		SB-43 (9-10)		SB-44 (2-3)		SB-45 (1-2)		SB-45 (9-10)		SB-46 (1-2)		SB-46 (7-8)		SB-47 (4-5)		SB-47 (9-10)		SB-50 (4-5)		SB-50 (6.5-7.5)		SB-51 (2-3)		SB-51 (9-10)		SB-52 (2-3)		SB-52 (7.5-8.5)	
LAB SAMPLE ID:							L2550303-06		L2550303-07		L2550303-08		L2550303-09		L2553523-01		L2550303-11		L2550303-12		L2553533-01		L2553533-02		L2553536-01		L2553536-02		L2550303-22		L2550303-23		L2550303-24		L2550303-25		L2553523-02		L2553523-03	
SAMPLE DATE:							8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025	
MATRIX:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
VOCs (SW846 8260D)																																									
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	NS	NS	NS	NS	0.00057	U	0.00053	U	0.0007	U	0.00059	U	0.00056	U	0.00055	U	0.00057	U	0.00051	U	0.00049	U	0.00053	U	0.00047	U	0.00048	U	0.001	U	0.00079	U	0.00061	U	0.00051	U	0.00047	U
1,1,1-Trichloroethane	71-55-6	mg/kg	0.68	100	500	0.68	0.00057	U	0.00053	U	0.0007	U	0.00059	U	0.00056	U	0.00055	U	0.00057	U	0.00051	U	0.00049	U	0.00053	U	0.00047	U	0.00048	U	0.001	U	0.00079	U	0.00061	U	0.00051	U	0.00047	U
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	NS	NS	NS	NS	0.00057	U	0.00053	U	0.0007	U	0.00059	U	0.00056	U	0.00055	U	0.00057	U	0.00051	U	0.00049	U	0.00053	U	0.00047	U	0.00048	U	0.001	U	0.00079	U	0.00061	U	0.00051	U	0.00047	U
1,1,2-Trichloroethane	79-00-5	mg/kg	NS	NS	NS	NS	0.0011	U	0.001	U	0.0014	U	0.0012	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.00094	U	0.00097	U	0.002	U	0.0016	U	0.0012	U	0.001	U	0.00094	U
1,1-Dichloroethane	75-34-3	mg/kg	0.27	47	240	0.27	0.0011	U	0.001	U	0.0014	U	0.0012	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.00094	U	0.00097	U	0.002	U	0.0016	U	0.0012	U	0.001	U	0.00094	U
1,1-Dichloroethene	75-35-4	mg/kg	0.24	0.98	5.1	0.33	0.0011	U	0.001	U	0.0014	U	0.0012	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.00094	U	0.00097	U	0.002	U	0.0016	U	0.0012	U	0.001	U	0.00094	U
1,1-Dichloropropene	563-58-6	mg/kg	NS	NS	NS	NS	0.00057	U	0.00053	U	0.0007	U	0.00059	U	0.00056	U	0.00055	U	0.00057	U	0.00051	U	0.00049	U	0.00053	U	0.00047	U	0.00048	U	0.001	U	0.00079	U	0.00061	U	0.00051	U	0.00047	U
1,2,3-Trichlorobenzene	87-61-6	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0028	U	0.0024	U	0.0022	U	0.0022	U	0.0023	U	0.002	U	0.002	U	0.0021	U	0.0019	U	0.0019	U	0.0041	U	0.0032	U	0.0024	U	0.002	U	0.0019	U
1,2,3-Trichloropropane	96-18-4	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0028	U	0.0024	U	0.0022	U	0.0022	U	0.0023	U	0.002	U	0.002	U	0.0021	U	0.0019	U	0.0019	U	0.0041	U	0.0032	U	0.0024	U	0.002	U	0.0019	U
1,2,4,5-Tetramethylbenzene	95-93-2	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0028	U	0.43	E	0.0022	U	0.0022	U	0.0023	U	0.002	U	0.002	U	0.0021	U	0.0025	U	0.0019	U	0.0041	U	0.0032	U	0.69	E	0.002	U	0.0019	U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0028	U	0.0024	U	0.0022	U	0.0022	U	0.0023	U	0.002	U	0.002	U	0.0021	U	0.0019	U	0.0019	U	0.0041	U	0.0032	U	0.0024	U	0.002	U	0.0019	U
1,2,4-Trimethylbenzene	95-63-6	mg/kg	5.9	100	500	5.9	0.0023	U	0.0021	U	0.0028	U	0.0034		0.0022	U	0.0022	U	0.0023	U	0.002	U	0.002	U	0.0021	U	0.0019	U	0.0019	U	0.0041	U	0.0032	U	0.0046		0.002	U	0.0019	U
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	NS	NS	NS	NS	0.0034	U	0.0032	U	0.0042	U	0.0035	U	0.0034	U	0.0033	U	0.0034	U	0.003	U	0.0029	U	0.0032	U	0.0028	U	0.0029	U	0.0061	U	0.0048	U	0.0037	U	0.0031	U	0.0028	U
1,2-Dibromoethane	106-93-4	mg/kg	NS	NS	NS	NS	0.0011	U	0.001	U	0.0014	U	0.0012	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.00094	U	0.00097	U	0.002	U	0.0016	U	0.0012	U	0.001	U	0.00094	U
1,2-Dichlorobenzene	95-50-1	mg/kg	1.1	100	500	1.1	0.0023	U	0.0021	U	0.0028	U	0.0024	U	0.0022	U	0.0022	U	0.0023	U	0.002	U	0.002	U	0.0021	U	0.0019	U	0.0019	U	0.0041	U	0.0032	U	0.0024	U	0.002	U	0.0019	U
1,2-Dichloroethane	107-06-2	mg/kg	0.02	5.8	30	0.02	0.0011	U	0.001	U	0.0014	U	0.0012	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.00094	U	0.00097	U	0.002	U	0.0016	U	0.0012	U	0.001	U	0.00094	U
1,2-Dichloroethene, Total	540-59-0	mg/kg	NS	NS	NS	NS	0.0011	U	0.001	U	0.0014	U	0.0012	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.00094	U	0.00097	U	0.002	U	0.0016	U	0.0012	U	0.001	U	0.00094	U
1,2-Dichloropropane	78-87-5	mg/kg	NS	NS	NS	NS	0.0011	U	0.001	U	0.0014	U	0.0012	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.00094	U	0.00097	U	0.002	U	0.0016	U	0.0012	U	0.001	U	0.00094	U
1,3,5-Trimethylbenzene	108-67-8	mg/kg	3.1	100	500	3.1	0.0023	U	0.0021	U	0.0028	U	0.0021	J	0.0022	U	0.0022	U	0.0023	U	0.002	U	0.002	U	0.0021	U	0.0019	U	0.0019	U	0.0041	U	0.0032	U	0.0017	J	0.002	U	0.0019	U
1,3-Dichlorobenzene	541-73-1	mg/kg	2.6	38	280	2.6	0.0023	U	0.0021	U	0.0028	U	0.0024	U	0.0022	U	0.0022	U	0.0023	U	0.002	U	0.002	U	0.0021	U	0.0019	U	0.0019	U	0.0041	U	0.0032	U	0.0024	U	0.002	U	0.0019	U
1,3-Dichloropropane	142-28-9	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0028	U	0.0024	U	0.0022	U	0.0022	U	0.0023	U	0.002	U	0.002	U	0.0021	U	0.0019	U	0.0019	U	0.0041	U	0.0032	U	0.0024	U	0.002	U	0.0019	U
1,3-Dichloropropene, Total	542-75-6	mg/kg	NS	NS	NS	NS	0.00057	U	0.00053	U	0.0007	U	0.00059	U	0.00056	U	0.00055	U	0.00057	U	0.00051	U	0.00049	U	0.00053	U	0.00047	U	0.00048	U	0.001	U	0.00079	U	0.00061	U	0.00051	U	0.00047	U
1,4-Dichlorobenzene	106-46-7	mg/kg	1.8	24	130	1.8	0.0023	U	0.0021	U	0.0028	U	0.0024	U	0.0022	U	0.0022	U	0.0023	U	0.002	U	0.002	U	0.0021	U	0.0019	U	0.0019	U	0.0041	U	0.0032	U	0.00023	J	0.002	U	0.0019	U
1,4-Dioxane	123-91-1	mg/kg	0.1	5.7	36	0.1	0.092	U	0.085	U	0.11	U	0.094	U	0.09	U	0.088	U	0.091	U	0.081	U	0.078	U	0.085	U	0.075	U	0.078	U	0.16	U	0.13	U	0.098	U	0.082	U	0.075	U
2,2-Dichloropropane	594-20-7	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0028	U	0.0024	U	0.0022	U	0.0022	U	0.0023	U	0.002	U	0.002	U	0.0021	U	0.0019	U	0.0019	U	0.0041	U	0.0032	U	0.0024	U	0.002	U	0.0019	U
2-Butanone (MEK)	78-93-3	mg/kg	0.1	100	500	0.1	0.011	U	0.0024	J	0.014	U	0.012	U	0.011	U	0.011	U	0.0056	J	0.01	U	0.0098	U	0.011	U	0.0094	U	0.0097	U	0.02	U	0.016	U	0.012	U	0.01	U	0.0063	J
2-Hexanone	591-78-6	mg/kg	NS	NS	NS	NS	0.011	U	0.01	U	0.014	U	0.012	U	0.011	U	0.011	U	0.011	U	0.01	U	0.0098	U	0.011	U	0.0094	U	0.0097	U	0.02	U	0.016	U	0.012	U	0.01	U	0.0094	U
4-Methyl-2-pentanone(MIBK)	108-10-1	mg/kg	NS	NS	NS	NS	0.011	U	0.01	U	0.014	U	0.012	U	0.011	U	0.011	U	0.011	U	0.01	U	0.0098	U	0.011	U	0.0094	U	0.0097	U	0.02	U	0.016	U	0.012	U	0.01	U	0.0094	U
Acetone	67-64-1	mg/kg	0.03	100	500	0.03	0.011	U	0.0078	J	0.014	U	0.012	U	0.011	U	0.011	U	0.029		0.01	U	0.0098	U	0.011	U	0.0082	J	0.0097	U	0.02	U	0.016	U	0.012	U	0.01	U	0.027	
Acrylonitrile	107-13-1	mg/kg	NS	NS	NS	NS	0.0046	U	0.0042	U	0.0056	U	0.0047	U	0.0045	U	0.0044	U	0.0046	U	0.0041	U	0.0039	U	0.0042	U	0.0038	U	0.0039	U	0.0082	U	0.0063	U	0.0049	U	0.0041	U	0.0037	U
Benzene	71-43-2	mg/kg	0.06	3.7	20	0.06	0.00057	U	0.00053	U	0.0007	U	0.00048	J	0.00056	U	0.00055	U	0.00057	U	0.00051	U	0.00049	U	0.00053	U	0.00047	U	0.00048	U	0.001	U	0.00079	U	0.0007		0.00051	U	0.00047	U
Bromobenzene	108-86-1	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0028	U	0.0024	U	0.0022	U	0.0022	U	0.0023	U	0.002	U	0.002	U	0.0021	U	0.0019	U	0.0019	U	0.0041	U	0.0032	U	0.0024	U	0.002	U	0.0019	U
Bromochloromethane	74-97-5	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0028	U	0.0024	U	0.0022	U	0.0022	U	0.0023	U	0.002	U	0.002	U	0.0021	U	0.0019	U	0.0019	U	0.0041	U	0.0032	U	0.0024	U	0.002	U	0.0019	U
Bromodichloromethane	75-27-4	mg/kg	NS	NS	NS	NS	0.00057	U	0.00053	U	0.0007	U	0.00059	U	0.00056	U	0.00055	U	0.00057	U	0.00051	U	0.00049	U	0.00053	U	0.00047	U	0.00048	U	0.001	U	0.00079	U	0.00061	U	0.00051	U	0.00047	U
Bromoform	75-25-2	mg/kg	NS	NS	NS	NS	0.0046	U	0.0042	U	0.0056	U	0.0047	U	0.0045	U	0.0044	U	0.0046	U	0.0041	U	0.0039	U	0.0042	U	0.0038	U	0.0039	U	0.0082	U	0.0063	U	0.0049	U	0.0041	U	0.0037	U
Bromomethane	74-83-9	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0028	U	0.0024	U	0.0022	U	0.0022	U	0.0023	U	0.002	U	0.002	U	0.0021	U	0.0019	U	0.0019	U	0.0041	U	0.0032	U	0.0024	U	0.002	U	0.0019	U
Carbon disulfide	75-15-0	mg/kg	NS	NS	NS	NS	0.011	U	0.01	U	0.014	U	0.012	U	0.011	U	0.011	U	0.011	U	0.01	U	0.0098	U	0.011	U	0.0094	U	0.0097	U	0.02	U	0.016	U	0.012	U	0.01	U	0.0094	U
Carbon tetrachloride	56-23-5	mg/kg	0.76	7.1	41	0.76	0.0011	U	0.001	U	0.0014	U	0.0012	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.00094	U	0.00097	U	0.002	U	0.0016	U	0.0012	U	0.001	U	0.00094	U
Chlorobenzene	108-90-7	mg/kg	4.5	100	500	4.5	0.00057	U	0.00053	U	0.0007	U	0.00059	U	0.00056	U	0.00055	U	0.00057	U	0.00051	U	0.00049	U	0.00053	U	0.00047	U	0.00048	U	0.001	U	0.00079	U	0.00061	U	0.00051	U	0.00047	U
Chloroethane	75-00-3	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0028	U	0.0024	U	0.0022	U	0.0022	U	0.0023	U	0.002	U	0.002	U	0.0021	U	0.0019	U	0.0019	U	0.0041	U	0.0032	U	0.0024	U	0.002	U	0.0019	U
Chloroform	67-66-3	mg/kg	0.37	24	180	0.37	0.0017	U	0.0016	U	0.0021	U	0.0018	U	0.0017	U	0.0016	U	0.0017	U	0.0015	U	0.0015	U	0.0016	U	0.0014	U	0.0014	U	0.0031	U	0.0024	U	0.0018	U	0.0015	U	0.0014	U
Chloromethane	74-87-3	mg/kg	NS	NS	NS	NS	0.0046	U	0.0042	U	0.0056	U	0.0047	U	0.0045	U	0.0044	U	0.0046	U	0.0041	U	0.0039	U	0.0042	U	0.0038	U	0.0039	U	0.0082	U	0.0063	U	0.0049	U	0.0041	U	0.0037	U
cis-1,2-Dichloroethene	156-59-2	mg/kg	0.19	41	500	0.19	0.0011	U	0.001	U	0.0014	U	0.0012	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.00094	U	0.00097	U	0.002	U	0.0016	U	0.0012	U	0.001	U	0.00094	U
cis-1,3-Dichloropropene	10061-01-5	mg/kg	NS	NS	NS	NS	0.00057	U	0.00053	U	0.0007	U	0.00059	U	0.00056	U	0.00055	U	0.00057	U	0.00051	U	0.00049	U	0.00053	U	0.00047	U	0.00048	U	0.001	U	0.00079	U	0.00061	U	0.00051	U	0.00047	U
Cyclohexane	110-82-7	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Dibromochloromethane	124-48-1	mg/kg	NS	NS	NS	NS	0.0011	U	0.001	U	0.0014	U	0.0012	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.00094	U	0.00097	U	0.002	U	0.0016	U	0.0012	U	0.001	U	0.00094	U
Dibromomethane	74-95-3	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0028	U	0.0024	U	0.0022	U	0.0022	U	0.0023	U	0.002	U	0.002	U	0.0021	U	0.0019	U	0.0019	U	0.0041	U	0.0032	U	0.0024	U	0.002	U	0.0019	U
Dichlorodifluoromethane	75-71-8	mg/kg	NS	NS	NS	NS	0.011	U	0.01	U	0.014	U	0.012	U	0.011	U	0.011	U	0.011	U	0.01	U	0.0098	U	0.011	U	0.0094	U	0.0097	U	0.02	U	0.016	U	0.012	U	0.01	U	0.0094	U
Ethyl ether	60-29-7	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0028	U	0.0024	U	0.0022	U	0.0022	U	0.0023	U	0.002	U	0.002	U	0.0021	U	0.0019	U	0.0019	U	0.0041	U	0.0032	U	0.0024	U	0.002	U	0.0019	U
Ethylbenzene	100-41-4	mg/kg	1	76	390	1	0.0011	U	0.001	U	0.0014	U	0.01		0.0011	U	0.0011	U	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.00094	U	0.00097	U	0.002	U	0.0016	U	0.49	E	0.001	U	0.00094	U
Freon 113	76-13-1	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Hexachlorobutadiene	87-68-3	mg/kg	NS	NS	NS	NS	0.0046	U	0.0042	U	0.0056	U	0.0047	U	0.0045	U	0.0044	U	0.0046	U	0.0041	U	0.0039	U	0.0042	U	0.0038	U	0.0039	U	0.0082	U	0.0063	U	0.0049	U	0.0041	U	0.0037	U
Isopropylbenzene	98-82-8	mg/kg	NS	NS	NS	NS	0.0011	U	0.001	U	0.0014	U	0.092		0.0011	U	0.0011	U	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.00035	J	0.00097	U	0.002	U	0.0016	U	0.32		0.001	U	0.00094	U
m,p-Xylene	179601-23-1	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0028	U	0.0035		0.0022	U	0.0022	U	0.0023	U	0.002	U	0.002	U	0.0021	U	0.0019	U	0.0019	U	0.0041	U	0.0032	U	0.0063		0.002	U	0.0019	U
Methyl Acetate	79-20-9	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Methyl Tert Butyl Ether	1634-04-4	mg/kg	0.1	100	500	0.1	0.0023	U	0.0021	U	0.0028	U	0.0024	U	0.0022	U	0.0022	U	0.0023	U	0.002	U	0.002	U	0.0021	U	0.0019	U	0.0019	U	0.0041	U	0.0032	U	0.00043	J	0.002	U	0.0019	U
Methylcyclohexane	108-87-2	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Methylene chloride	75-09-2	mg/kg	0.05	81	500	0.05	0.0057	U	0.0053	U	0.007	U	0.0059	U	0.0056	U	0.0055	U	0.0057	U	0.0051	U	0.0049	U	0.0053	U	0.0047	U	0.0048	U	0.01	U	0.0079	U	0.0061	U	0.0051	U	0.0047	U
Naphthalene	91-20-3	mg/kg	12	100	500	12	0.0046	U	0.0042	U	0.0056	U	0.022		0.0045	U	0.0044	U	0.0046	U	0.0041	U	0.0039	U	0.0042	U	0.0038	U	0.0039	U	0.0082	U	0.0019	J	0.052		0.0041	U	0.0037	U
n-Butylbenzene	104-51-8	mg/kg	18	100	500	18	0.0011	U	0.001	U	0.0014	U	0.23		0.0011	U	0.0011	U	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.0002	J	0.00097	U	0.002	U	0.0016	U	0.72	E	0.001	U	0.00094	U
n-Propylbenzene	103-65-1	mg/kg	5	100	500	5	0.0011	U	0.001	U	0.0014	U	0.32		0.0011	U	0.0011	U	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.00035	J	0.00097	U	0.002	U	0.0016	U	0.7	E	0.001	U	0.00094	U
o-Chlorotoluene	95-49-8	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0028	U	0.0024	U	0.0022	U	0.0022	U	0.0023	U	0.002	U	0.002	U	0.0021	U	0.0019	U	0.0019	U	0.0041	U	0.0032	U	0.0024	U	0.002	U	0.0019	U
o-Xylene	95-47-6	mg/kg	NS	NS	NS	NS	0.0011	U	0.001	U	0.0014	U	0.00074	J	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.00094	U	0.00097	U	0.002	U	0.0016	U	0.0011	J	0.001	U	0.00094	U
p-Chlorotoluene	106-43-4	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0028	U	0.0024	U	0.0022	U	0.0022	U	0.0023	U	0.002	U	0.002	U	0.0021	U	0.0019	U	0.0019	U	0.0041	U	0.0032	U	0.0024	U	0.002	U	0.0019	U
p-Diethylbenzene	105-05-5	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0028	U	0.13		0.0022	U	0.0022	U	0.0023	U	0.002	U	0.002	U	0.0021	U	0.00047	J	0.0019	U	0.0041	U	0.0032	U	0.41	E	0.002	U	0.0019	U
p-Ethyltoluene	622-96-8	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0028	U	0.01		0.0022	U	0.0022	U	0.0023	U	0.002	U	0.002	U	0.0021	U	0.0019	U	0.0019	U	0.0041	U	0.0032	U	0.048		0.002	U	0.0019	U
p-Isopropyltoluene	99-87-6	mg/kg	NS	NS	NS	NS	0.0011	U	0.001	U	0.0014	U	0.0011	J	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.00094	U	0.00097	U	0.002	U	0.0016	U	0.024		0.001	U	0.00094	U
sec-Butylbenzene	135-98-8	mg/kg	25	100	500	25	0.0011	U	0.001	U	0.0014	U	0.095		0.0011	U	0.0011	U	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.00029	J	0.00097	U	0.002	U	0.0016	U	0.35		0.001	U	0.00094	U
Styrene	100-42-5	mg/kg	NS	NS	NS	NS	0.00066	J	0.001	U	0.0014	U	0.0012	U	0.0011	U	0.0011	U	0.0011	U	0.00061	J	0.00098	U	0.0011	U	0.00094	U	0.00097	U	0.002	U	0.0016	U	0.0012	U	0.001	U	0.00094	U
tert-Butylbenzene	98-06-6	mg/kg	11	100	500	11	0.0023	U	0.0021	U	0.0028	U	0.0041		0.0022	U	0.0022	U	0.0023	U	0.002	U	0.002	U	0.0021	U	0.0019	U	0.0019	U	0.0041	U	0.0032	U	0.012		0.002	U	0.0019	U
Tetrachloroethene	127-18-4	mg/kg	1.3	18	81	1.3	0.00057	U	0.00053	U	0.0007	U	0.00059	U	0.00056	U	0.00055	U	0.00057	U	0.00051	U	0.00049	U	0.00053	U	0.00047	U	0.00048	U	0.001	U	0.00079	U	0.00061	U	0.00051	U	0.00047	U
Toluene	108-88-3	mg/kg	0.7	100	500	0.7	0.0011	U	0.001	U	0.0014	U	0.0012	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.00094	U	0.00097	U	0.002	U	0.0016	U	0.0012	U	0.001	U	0.00094	U
trans-1,2-Dichloroethene	156-60-5	mg/kg	0.19	100	500	0.19	0.0017	U	0.0016	U	0.0021	U	0.0018	U	0.0017	U	0.0016	U	0.0017	U	0.0015	U	0.0015	U	0.0016	U	0.0014	U	0.0014	U	0.0031	U	0.0024	U	0.0018	U	0.0015	U	0.0014	U
trans-1,3-Dichloropropene	10061-02-6	mg/kg	NS	NS	NS	NS	0.0011	U	0.001	U	0.0014	U	0.0012	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.00094	U	0.00097	U	0.002	U	0.0016	U	0.0012	U	0.001	U	0.00094	U
trans-1,4-Dichloro-2-butene	110-57-6	mg/kg	NS	NS	NS	NS	0.0057	U	0.0053	U	0.007	U	0.0059	U	0.0056	U	0.0055	U	0.0057	U	0.0051	U	0.0049	U	0.0053	U	0.0047	U	0.0048	U	0.01	U	0.0079	U	0.0061	U	0.0051	U	0.0047	U
Trichloroethene	79-01-6	mg/kg	0.47	6.4	54	0.47	0.00057	U	0.00053	U	0.0007	U	0.00059	U	0.00056	U	0.00055	U	0.00057	U	0.00051	U	0.00049	U	0.00053	U	0.00047	U	0.00048	U	0.001	U	0.00079	U	0.00061	U	0.00051	U	0.00047	U
Trichlorofluoromethane	75-69-4	mg/kg	NS	NS	NS	NS	0.0046	U	0.0042	U	0.0056	U	0.0047	U	0.0045	U	0.0044	U	0.0046	U	0.0041	U	0.0039	U	0.0042	U	0.0038	U	0.0039	U	0.0082	U	0.0063	U	0.0049	U	0.0041	U	0.0037	U
Vinyl acetate	108-05-4	mg/kg	NS	NS	NS	NS	0.011	U	0.01	U	0.014	U	0.012	U	0.011	U	0.011	U	0.011	U	0.01	U	0.0098	U	0.011	U	0.0094	U	0.0097	U	0.02	U	0.016	U	0.012	U	0.01	U	0.0094	U
Vinyl chloride	75-01-4	mg/kg	0.03	0.48	7.1	0.03	0.0011	U	0.001	U	0.0014	U	0.0012	U	0.0011	U	0.0011	U	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.00094	U	0.00097	U	0.002	U	0.0016	U	0.0012	U	0.001	U	0.00094	U
Xylene (total)	1330-20-7	mg/kg	0.26	100	500	1.2	0.0011	U	0.001	U	0.0014	U	0.0042	J	0.

TABLE 5.1 A
SUMMARY OF SOIL SAMPLING RESULTS—VOCs

SAMPLE ID:							SB-56 (1-2)		SB-56 (9-10)		SB-56 (11-12)		SB-57 (1-2)		SB-57 (7.5-8.5)		SB-57 (10-11)		SB-58 (4-5)		SB-58 (7.5-8.5)		SB-59 (1-2)		SB-60 (2-3)		SB-60 (6-7)		SB-61 (1-2)		SB-61 (5-6)		SB-62 (4-5)		SB-62 (6-7)		SB-63 (2-3)		SB-63 (7-8)	
LAB SAMPLE ID:							L2550665-01		L2550665-02		L2550665-03		L2550665-04		L2550665-05		L2550665-06		L2550665-07		L2550665-08		L2550665-09		L2550665-10		L2550665-11		L2550665-12		L2550665-13		L2550665-14		L2550665-15		L2553571-01		L2553571-02	
SAMPLE DATE:							8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025	
MATRIX:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
VOCs (SW846 8260D)																																								
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	NS	NS	NS	NS	0.00065	U	0.00042	U	0.00047	U	0.00046	U	0.00048	U	0.00042	U	0.00054	U	0.00053	U	0.0006	U	0.00053	U	0.00046	U	0.00061	U	0.00051	U	0.0006	U	0.00068	U	0.00065	U	0.00048	U
1,1,1-Trichloroethane	71-55-6	mg/kg	0.68	100	500	0.68	0.00065	U	0.00042	U	0.00047	U	0.00046	U	0.00048	U	0.00042	U	0.00054	U	0.00053	U	0.0006	U	0.00053	U	0.00046	U	0.00061	U	0.00051	U	0.0006	U	0.00068	U	0.00065	U	0.00048	U
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	NS	NS	NS	NS	0.00065	U	0.00042	U	0.00047	U	0.00046	U	0.00048	U	0.00042	U	0.00054	U	0.00053	U	0.0006	U	0.00053	U	0.00046	U	0.00061	U	0.00051	U	0.0006	U	0.00068	U	0.00065	U	0.00048	U
1,1,2-Trichloroethane	79-00-5	mg/kg	NS	NS	NS	NS	0.0013	U	0.00084	U	0.00095	U	0.00092	U	0.00095	U	0.00083	U	0.0011	U	0.001	U	0.0012	U	0.0011	U	0.00093	U	0.0012	U	0.001	U	0.0012	U	0.0014	U	0.0013	U	0.00096	U
1,1-Dichloroethane	75-34-3	mg/kg	0.27	47	240	0.27	0.0013	U	0.00084	U	0.00095	U	0.00092	U	0.00095	U	0.00083	U	0.0011	U	0.001	U	0.0012	U	0.0011	U	0.00093	U	0.0012	U	0.001	U	0.0012	U	0.0014	U	0.0013	U	0.00096	U
1,1-Dichloroethene	75-35-4	mg/kg	0.24	0.98	5.1	0.33	0.0013	U	0.00084	U	0.00095	U	0.00092	U	0.00095	U	0.00083	U	0.0011	U	0.001	U	0.0012	U	0.0011	U	0.00093	U	0.0012	U	0.001	U	0.0012	U	0.0014	U	0.0013	U	0.00096	U
1,1-Dichloropropene	563-58-6	mg/kg	NS	NS	NS	NS	0.00065	U	0.00042	U	0.00047	U	0.00046	U	0.00048	U	0.00042	U	0.00054	U	0.00053	U	0.0006	U	0.00053	U	0.00046	U	0.00061	U	0.00051	U	0.0006	U	0.00068	U	0.00065	U	0.00048	U
1,2,3-Trichlorobenzene	87-61-6	mg/kg	NS	NS	NS	NS	0.0026	U	0.0017	U	0.0019	U	0.0018	U	0.0019	U	0.0017	U	0.0022	U	0.0021	U	0.0024	U	0.0021	U	0.0019	U	0.0024	U	0.002	U	0.0024	U	0.0027	U	0.0026	U	0.0019	U
1,2,3-Trichloropropane	96-18-4	mg/kg	NS	NS	NS	NS	0.0026	U	0.0017	U	0.0019	U	0.0018	U	0.0019	U	0.0017	U	0.0022	U	0.0021	U	0.0024	U	0.0021	U	0.0019	U	0.0024	U	0.002	U	0.0024	U	0.0027	U	0.0026	U	0.0019	U
1,2,4,5-Tetramethylbenzene	95-93-2	mg/kg	NS	NS	NS	NS	0.0026	U	0.0017	U	0.0019	U	0.0018	U	0.0019	U	0.0017	U	0.0022	U	0.0021	U	0.0024	U	0.0021	U	0.0019	U	0.0024	U	0.002	U	0.0024	U	0.0027	U	0.0026	U	0.0019	U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	NS	NS	NS	NS	0.0026	U	0.0017	U	0.0019	U	0.0018	U	0.0019	U	0.0017	U	0.0022	U	0.0021	U	0.0024	U	0.0021	U	0.0019	U	0.0024	U	0.002	U	0.0024	U	0.0027	U	0.0026	U	0.0019	U
1,2,4-Trimethylbenzene	95-63-6	mg/kg	5.9	100	500	5.9	0.0026	U	0.0017	U	0.0019	U	0.0018	U	0.0019	U	0.0017	U	0.0022	U	0.0021	U	0.0024	U	0.0021	U	0.0019	U	0.0024	U	0.002	U	0.0024	U	0.0027	U	0.0026	U	0.0019	U
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	NS	NS	NS	NS	0.0039	U	0.0025	U	0.0028	U	0.0028	U	0.0028	U	0.0025	U	0.0032	U	0.0032	U	0.0036	U	0.0032	U	0.0028	U	0.0037	U	0.003	U	0.0036	U	0.0041	U	0.0039	U	0.0029	U
1,2-Dibromoethane	106-93-4	mg/kg	NS	NS	NS	NS	0.0013	U	0.00084	U	0.00095	U	0.00092	U	0.00095	U	0.00083	U	0.0011	U	0.001	U	0.0012	U	0.0011	U	0.00093	U	0.0012	U	0.001	U	0.0012	U	0.0014	U	0.0013	U	0.00096	U
1,2-Dichlorobenzene	95-50-1	mg/kg	1.1	100	500	1.1	0.0026	U	0.0017	U	0.0019	U	0.0018	U	0.0019	U	0.0017	U	0.0022	U	0.0021	U	0.0024	U	0.0021	U	0.0019	U	0.0024	U	0.002	U	0.0024	U	0.0027	U	0.0026	U	0.0019	U
1,2-Dichloroethane	107-06-2	mg/kg	0.02	5.8	30	0.02	0.0013	U	0.00084	U	0.00095	U	0.00092	U	0.00095	U	0.00083	U	0.0011	U	0.001	U	0.0012	U	0.0011	U	0.00093	U	0.0012	U	0.001	U	0.0012	U	0.0014	U	0.0013	U	0.00096	U
1,2-Dichloroethene, Total	540-59-0	mg/kg	NS	NS	NS	NS	0.0013	U	0.00084	U	0.00095	U	0.00092	U	0.00095	U	0.00083	U	0.0011	U	0.001	U	0.0012	U	0.0011	U	0.00093	U	0.0012	U	0.001	U	0.0012	U	0.0014	U	0.0013	U	0.00096	U
1,2-Dichloropropane	78-87-5	mg/kg	NS	NS	NS	NS	0.0013	U	0.00084	U	0.00095	U	0.00092	U	0.00095	U	0.00083	U	0.0011	U	0.001	U	0.0012	U	0.0011	U	0.00093	U	0.0012	U	0.001	U	0.0012	U	0.0014	U	0.0013	U	0.00096	U
1,3,5-Trimethylbenzene	108-67-8	mg/kg	3.1	100	500	3.1	0.0026	U	0.0017	U	0.0019	U	0.0018	U	0.0019	U	0.0017	U	0.0022	U	0.0021	U	0.0024	U	0.0021	U	0.0019	U	0.0024	U	0.002	U	0.0024	U	0.0027	U	0.0026	U	0.0019	U
1,3-Dichlorobenzene	541-73-1	mg/kg	2.6	38	280	2.6	0.0026	U	0.0017	U	0.0019	U	0.0018	U	0.0019	U	0.0017	U	0.0022	U	0.0021	U	0.0024	U	0.0021	U	0.0019	U	0.0024	U	0.002	U	0.0024	U	0.0027	U	0.0026	U	0.0019	U
1,3-Dichloropropane	142-28-9	mg/kg	NS	NS	NS	NS	0.0026	U	0.0017	U	0.0019	U	0.0018	U	0.0019	U	0.0017	U	0.0022	U	0.0021	U	0.0024	U	0.0021	U	0.0019	U	0.0024	U	0.002	U	0.0024	U	0.0027	U	0.0026	U	0.0019	U
1,3-Dichloropropene, Total	542-75-6	mg/kg	NS	NS	NS	NS	0.00065	U	0.00042	U	0.00047	U	0.00046	U	0.00048	U	0.00042	U	0.00054	U	0.00053	U	0.0006	U	0.00053	U	0.00046	U	0.00061	U	0.00051	U	0.0006	U	0.00068	U	0.00065	U	0.00048	U
1,4-Dichlorobenzene	106-46-7	mg/kg	1.8	24	130	1.8	0.0026	U	0.0017	U	0.0019	U	0.0018	U	0.0019	U	0.0017	U	0.0022	U	0.0021	U	0.0024	U	0.0021	U	0.0019	U	0.0024	U	0.002	U	0.0024	U	0.0027	U	0.0026	U	0.0019	U
1,4-Dioxane	123-91-1	mg/kg	0.1	5.7	36	0.1	0.1	U	0.067	U	0.076	U	0.074	U	0.076	U	0.067	U	0.086	U	0.084	U	0.095	U	0.085	U	0.074	U	0.098	U	0.081	U	0.096	U	0.11	U	0.1	U	0.076	U
2,2-Dichloropropane	594-20-7	mg/kg	NS	NS	NS	NS	0.0026	U	0.0017	U	0.0019	U	0.0018	U	0.0019	U	0.0017	U	0.0022	U	0.0021	U	0.0024	U	0.0021	U	0.0019	U	0.0024	U	0.002	U	0.0024	U	0.0027	U	0.0026	U	0.0019	U
2-Butanone (MEK)	78-93-3	mg/kg	0.1	100	500	0.1	0.013	U	0.0084	U	0.0095	U	0.0092	U	0.0095	U	0.0083	U	0.011	U	0.01	U	0.012	U	0.011	U	0.0093	U	0.012	U	0.01	U	0.012	U	0.014	U	0.013	U	0.0096	U
2-Hexanone	591-78-6	mg/kg	NS	NS	NS	NS	0.013	U	0.0084	U	0.0095	U	0.0092	U	0.0095	U	0.0083	U	0.011	U	0.01	U	0.012	U	0.011	U	0.0093	U	0.012	U	0.01	U	0.012	U	0.014	U	0.013	U	0.0096	U
4-Methyl-2-pentanone(MIBK)	108-10-1	mg/kg	NS	NS	NS	NS	0.013	U	0.0084	U	0.0095	U	0.0092	U	0.0095	U	0.0083	U	0.011	U	0.01	U	0.012	U	0.011	U	0.0093	U	0.012	U	0.01	U	0.012	U	0.014	U	0.013	U	0.0096	U
Acetone	67-64-1	mg/kg	0.03	100	500	0.03	0.013	U	0.0055	J	0.0095	U	0.0092	U	0.0095	U	0.0083	U	0.011	U	0.01	U	0.0063	J	0.011	U	0.0093	U	0.0072	J	0.01	U	0.012	U	0.0074	J	0.013	U	0.0048	U
Acrylonitrile	107-13-1	mg/kg	NS	NS	NS	NS	0.0052	U	0.0034	U	0.0038	U	0.0037	U	0.0038	U	0.0033	U	0.0043	U	0.0042	U	0.0048	U	0.0042	U	0.0037	U	0.0049	U	0.004	U	0.0048	U	0.0054	U	0.0052	U	0.0038	U
Benzene	71-43-2	mg/kg	0.06	3.7	20	0.06	0.00065	U	0.00042	U	0.00047	U	0.00046	U	0.00048	U	0.00042	U	0.00054	U	0.00053	U	0.0006	U	0.00053	U	0.00046	U	0.00061	U	0.00051	U	0.0006	U	0.00068	U	0.00065	U	0.00048	U
Bromobenzene	108-86-1	mg/kg	NS	NS	NS	NS	0.0026	U	0.0017	U	0.0019	U	0.0018	U	0.0019	U	0.0017	U	0.0022	U	0.0021	U	0.0024	U	0.0021	U	0.0019	U	0.0024	U	0.002	U	0.0024	U	0.0027	U	0.0026	U	0.0019	U
Bromochloromethane	74-97-5	mg/kg	NS	NS	NS	NS	0.0026	U	0.0017	U	0.0019	U	0.0018	U	0.0019	U	0.0017	U	0.0022	U	0.0021	U	0.0024	U	0.0021	U	0.0019	U	0.0024	U	0.002	U	0.0024	U	0.0027	U	0.0026	U	0.0019	U
Bromodichloromethane	75-27-4	mg/kg	NS	NS	NS	NS	0.00065	U	0.00042	U	0.00047	U	0.00046	U	0.00048	U	0.00042	U	0.00054	U	0.00053	U	0.0006	U	0.00053	U	0.00046	U	0.00061	U	0.00051	U	0.0006	U	0.00068	U	0.00065	U	0.00048	U
Bromoform	75-25-2	mg/kg	NS	NS	NS	NS	0.0052	U	0.0034	U	0.0038	U	0.0037	U	0.0038	U	0.0033	U	0.0043	U	0.0042	U	0.0048	U	0.0042	U	0.0037	U	0.0049	U	0.004	U	0.0048	U	0.0054	U	0.0052	U	0.0038	U
Bromomethane	74-83-9	mg/kg	NS	NS	NS	NS	0.0026	U	0.0017	U	0.0019	U	0.0018	U	0.0019	U	0.0017	U	0.0022	U	0.0021	U	0.0024	U	0.0021	U	0.0019	U	0.0024	U	0.002	U	0.0024	U	0.0027	U	0.0026	U	0.0019	U
Carbon disulfide	75-15-0	mg/kg	NS	NS	NS	NS	0.013	U	0.0084	U	0.0095	U	0.0092	U	0.0095	U	0.0083	U	0.011	U	0.01	U	0.012	U	0.011	U	0.0093	U	0.012	U	0.01	U	0.012	U	0.014	U	0.013	U	0.0096	U
Carbon tetrachloride	56-23-5	mg/kg	0.76	7.1	41	0.76	0.0013	U	0.00084	U	0.00095	U	0.00092	U	0.00095	U	0.00083	U	0.0011	U	0.001	U	0.0012	U	0.0011	U	0.00093	U	0.0012	U	0.001	U	0.0012	U	0.0014	U	0.0013	U	0.00096	U
Chlorobenzene	108-90-7	mg/kg	4.5	100	500	4.5	0.00065	U	0.00042	U	0.00047	U	0.00046	U	0.00048	U	0.00042	U	0.00054	U	0.00053	U	0.0006	U	0.00053	U	0.00046	U	0.00061	U	0.00051	U	0.0006	U	0.00068	U	0.00065	U	0.00048	U
Chloroethane	75-00-3	mg/kg	NS	NS	NS	NS	0.0026	U	0.0017	U	0.0019	U	0.0018	U	0.0019	U	0.0017	U	0.0022	U	0.0021	U	0.0024	U	0.0021	U	0.0019	U	0.0024	U	0.002	U	0.0024	U	0.0027	U	0.0026	U	0.0019	U
Chloroform	67-66-3	mg/kg	0.37	24	180	0.37	0.002	U	0.0012	U	0.0014	U	0.0014	U	0.0014	U	0.0012	U	0.0016	U	0.0016	U	0.0018	U	0.0016	U	0.0014	U	0.0018	U	0.0015	U	0.0018	U	0.002	U	0.0019	U	0.0014	U
Chloromethane	74-87-3	mg/kg	NS	NS	NS	NS	0.0052	U	0.0034	U	0.0038	U	0.0037	U	0.0038	U	0.0033	U	0.0043	U	0.0042	U	0.0048	U	0.0042	U	0.0037	U	0.0049	U	0.004	U	0.0048	U	0.0054	U	0.0052	U	0.0038	U
cis-1,2-Dichloroethene	156-59-2	mg/kg	0.19	41	500	0.19	0.0013	U	0.00084	U	0.00095	U	0.00092	U	0.00095	U	0.00083	U	0.0011	U	0.001	U	0.0012	U	0.0011	U	0.00093	U	0.0012	U	0.001	U	0.0012	U	0.0014	U	0.0013	U	0.00096	U
cis-1,3-Dichloropropene	10061-01-5	mg/kg	NS	NS	NS	NS	0.00065	U	0.00042	U	0.00047	U	0.00046	U	0.00048	U	0.00042	U	0.00054	U	0.00053	U	0.0006	U	0.00053	U	0.00046	U	0.00061	U	0.00051	U	0.0006	U	0.00068	U	0.00065	U	0.00048	U
Cyclohexane	110-82-7	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Dibromochloromethane	124-48-1	mg/kg	NS	NS	NS	NS	0.0013	U	0.00084	U	0.00095	U	0.00092	U	0.00095	U	0.00083	U	0.0011	U	0.001	U	0.0012	U	0.0011	U	0.00093	U	0.0012	U	0.001	U	0.0012	U	0.0014	U	0.0013	U	0.00096	U
Dibromomethane	74-95-3	mg/kg	NS	NS	NS	NS	0.0026	U	0.0017	U	0.0019	U	0.0018	U	0.0019	U	0.0017	U	0.0022	U	0.0021	U	0.0024	U	0.0021	U	0.0019	U	0.0024	U	0.002	U	0.0024	U	0.0027	U	0.0026	U	0.0019	U
Dichlorodifluoromethane	75-71-8	mg/kg	NS	NS	NS	NS	0.013	U	0.0084	U	0.0095	U	0.0092	U	0.0095	U	0.0083	U	0.011	U	0.01	U	0.012	U	0.011	U	0.0093	U	0.012	U	0.01	U	0.012	U	0.014	U	0.013	U	0.0096	U
Ethyl ether	60-29-7	mg/kg	NS	NS	NS	NS	0.0026	U	0.0017	U	0.0019	U	0.0018	U	0.0019	U	0.0017	U	0.0022	U	0.0021	U	0.0024	U	0.0021	U	0.0019	U	0.0024	U	0.002	U	0.0024	U	0.0027	U	0.0026	U	0.0019	U
Ethylbenzene	100-41-4	mg/kg	1	76	390	1	0.0013	U	0.00084	U	0.00095	U	0.00092	U	0.00095	U	0.00083	U	0.0011	U	0.001	U	0.0012	U	0.0011	U	0.00093	U	0.0012	U	0.001	U	0.0012	U	0.0014	U	0.0013	U	0.00096	U
Freon 113	76-13-1	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Hexachlorobutadiene	87-68-3	mg/kg	NS	NS	NS	NS	0.0052	U	0.0034	U	0.0038	U	0.0037	U	0.0038	U	0.0033	U	0.0043	U	0.0042	U	0.0048	U	0.0042	U	0.0037	U	0.0049	U	0.004	U	0.0048	U	0.0054	U	0.0052	U	0.0038	U
Isopropylbenzene	98-82-8	mg/kg	NS	NS	NS	NS	0.0013	U	0.00084	U	0.00095	U	0.00092	U	0.00095	U	0.00083	U	0.0011	U	0.001	U	0.0012	U	0.0011	U	0.00093	U	0.0012	U	0.001	U	0.0012	U	0.0014	U	0.0013	U	0.00096	U
m,p-Xylene	179601-23-1	mg/kg	NS	NS	NS	NS	0.0026	U	0.0017	U	0.0019	U	0.0018	U	0.0019	U	0.0017	U	0.0022	U	0.0021	U	0.0024	U	0.0021	U	0.0019	U	0.0024	U	0.002	U	0.0024	U	0.0027	U	0.0026	U	0.0019	U
Methyl Acetate	79-20-9	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Methyl Tert Butyl Ether	1634-04-4	mg/kg	0.1	100	500	0.1	0.0026	U	0.0017	U	0.0019	U	0.0018	U	0.0019	U	0.0017	U	0.0022	U	0.0021	U	0.0024	U	0.0021	U	0.0019	U	0.0024	U	0.002	U	0.0024	U	0.0027	U	0.0026	U	0.0019	U
Methylcyclohexane	108-87-2	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Methylene chloride	75-09-2	mg/kg	0.05	81	500	0.05	0.0065	U	0.0042	U	0.0047	U	0.0046	U	0.0048	U	0.0042	U	0.0054	U	0.0053	U	0.006	U	0.0053	U	0.0046	U	0.0061	U	0.0051	U	0.006	U	0.0068	U	0.0065	U	0.0048	U
Naphthalene	91-20-3	mg/kg	12	100	500	12	0.0052	U	0.0034	U	0.0038	U	0.0037	U	0.0038	U	0.0033	U	0.0043	U	0.0042	U	0.0048	U	0.0042	U	0.0037	U	0.0049	U	0.004	U	0.0048	U	0.0054	U	0.0052	U	0.0038	U
n-Butylbenzene	104-51-8	mg/kg	18	100	500	18	0.0013	U	0.00084	U	0.00095	U	0.00092	U	0.00095	U	0.00083	U	0.0011	U	0.001	U	0.0012	U	0.0011	U	0.00093	U	0.0012	U	0.001	U	0.0012	U	0.0014	U	0.0013	U	0.00096	U
n-Propylbenzene	103-65-1	mg/kg	5	100	500	5	0.0013	U	0.00084	U	0.00095	U	0.00092	U	0.00095	U	0.00083	U	0.0011	U	0.001	U	0.0012	U	0.0011	U	0.00093	U	0.0012	U	0.001	U	0.0012	U	0.0014	U	0.0013	U	0.00096	U
o-Chlorotoluene	95-49-8	mg/kg	NS	NS	NS	NS	0.0026	U	0.0017	U	0.0019	U	0.0018	U	0.0019	U	0.0017	U	0.0022	U	0.0021	U	0.0024	U	0.0021	U	0.0019	U	0.0024	U	0.002	U	0.0024	U	0.0027	U	0.0026	U	0.0019	U
o-Xylene	95-47-6	mg/kg	NS	NS	NS	NS	0.0013	U	0.00084	U	0.00095	U	0.00092	U	0.00095	U	0.00083	U	0.0011	U	0.001	U	0.0012	U	0.0011	U	0.00093	U	0.0012	U	0.001	U	0.0012	U	0.0014	U	0.0013	U	0.00096	U
p-Chlorotoluene	106-43-4	mg/kg	NS	NS	NS	NS	0.0026	U	0.0017	U	0.0019	U	0.0018	U	0.0019	U	0.0017	U	0.0022	U	0.0021	U	0.0024	U	0.0021	U	0.0019	U	0.0024	U	0.002	U	0.0024	U	0.0027	U	0.0026	U	0.0019	U
p-Diethylbenzene	105-05-5	mg/kg	NS	NS	NS	NS	0.0026	U	0.0017	U	0.0019	U	0.0018	U	0.0019	U	0.0017	U	0.0022	U	0.0021	U	0.0024	U	0.0021	U	0.0019	U	0.0024	U	0.002	U	0.0024	U	0.0027	U	0.0026	U	0.0019	U
p-Ethyltoluene	622-96-8	mg/kg	NS	NS	NS	NS	0.0026	U	0.0017	U	0.0019	U	0.0018	U	0.0019	U	0.0017	U	0.0022	U	0.0021	U	0.0024	U	0.0021	U	0.0019	U	0.0024	U	0.002	U	0.0024	U	0.0027	U	0.0026	U	0.0019	U
p-Isopropyltoluene	99-87-6	mg/kg	NS	NS	NS	NS	0.0013	U	0.00084	U	0.00095	U	0.00092	U	0.00095	U	0.00083	U	0.0011	U	0.001	U	0.0012	U	0.0011	U	0.00093	U	0.0012	U	0.001	U	0.0012	U	0.0014	U	0.0013	U	0.00096	U
sec-Butylbenzene	135-98-8	mg/kg	25	100	500	25	0.0013	U	0.00084	U	0.00095	U	0.00092	U	0.00095	U	0.00083	U	0.0011	U	0.001	U	0.0012	U	0.0011	U	0.00093	U	0.0012	U	0.001	U	0.0012	U	0.0014	U	0.0013	U	0.00096	U
Styrene	100-42-5	mg/kg	NS	NS	NS	NS	0.0013	U	0.00084	U	0.00095	U	0.00092	U	0.00095	U	0.00083	U	0.0011	U	0.001	U	0.0012	U	0.0011	U	0.00093	U	0.0012	U	0.001	U	0.0012	U	0.0014	U	0.0013	U	0.00096	U
tert-Butylbenzene	98-06-6	mg/kg	11	100	500	11	0.0026	U	0.0017	U	0.0019	U	0.0018	U	0.0019	U	0.0017	U	0.0022	U	0.0021	U	0.0024	U	0.0021	U	0.0019	U	0.0024	U	0.002	U	0.0024	U	0.0027	U	0.0026	U	0.0019	U
Tetrachloroethene	127-18-4	mg/kg	1.3	18	81	1.3	0.001		0.00042	U	0.00047	U	0.00046	U	0.00048	U	0.00042	U	0.00054	U	0.00053	U	0.0006	U	0.00053	U	0.00046	U	0.00061	U	0.00051	U	0.0006	U	0.00068	U	0.00065	U	0.00048	U
Toluene	108-88-3	mg/kg	0.7	100	500	0.7	0.0013	U	0.00084	U	0.00095	U	0.00092	U	0.00095	U	0.00083	U	0.0011	U	0.001	U	0.0012	U	0.0011	U	0.00093	U	0.0012	U	0.001	U	0.0012	U	0.0014	U	0.0013	U	0.00096	U
trans-1,2-Dichloroethene	156-60-5	mg/kg	0.19	100	500	0.19	0.002	U	0.0012	U	0.0014	U	0.0014	U	0.0014	U	0.0012	U	0.0016	U	0.0016	U	0.0018	U	0.0016	U	0.0014	U	0.0018	U	0.0015	U	0.0018	U	0.002	U	0.0019	U	0.0014	U
trans-1,3-Dichloropropene	10061-02-6	mg/kg	NS	NS	NS	NS	0.0013	U	0.00084	U	0.00095	U	0.00092	U	0.00095	U	0.00083	U	0.0011	U	0.001	U	0.0012	U	0.0011	U	0.00093	U	0.0012	U	0.001	U	0.0012	U	0.0014	U	0.0013	U	0.00096	U
trans-1,4-Dichloro-2-butene	110-57-6	mg/kg	NS	NS	NS	NS	0.0065	U	0.0042	U	0.0047	U	0.0046	U	0.0048	U	0.0042	U	0.0054	U	0.0053	U	0.006	U	0.0053	U	0.0046	U	0.0061	U	0.0051	U	0.006	U	0.0068	U	0.0065	U	0.0048	U
Trichloroethene	79-01-6	mg/kg	0.47	6.4	54	0.47	0.00065	U	0.00042	U	0.00047	U	0.00046	U	0.00048	U	0.00042	U	0.00054	U	0.00053	U	0.0006	U	0.00053	U	0.00046	U	0.00061	U	0.00051	U	0.0006	U	0.00068	U	0.00065	U	0.00048	U
Trichlorofluoromethane	75-69-4	mg/kg	NS	NS	NS	NS	0.0052	U	0.0034	U	0.0038	U	0.0037	U	0.0038	U	0.0033	U	0.0043	U	0.0042	U	0.0048	U	0.0042	U	0.0037	U	0.0049	U	0.004	U	0.0048	U	0.0054	U	0.0052	U	0.0038	U
Vinyl acetate	108-05-4	mg/kg	NS	NS	NS	NS	0.013	U	0.0084	U	0.0095	U	0.0092	U	0.0095	U	0.0083	U	0.011	U	0.01	U	0.012	U	0.011	U	0.0093	U	0.012	U	0.01	U	0.012	U	0.014	U	0.013	U	0.0096	U
Vinyl chloride	75-01-4	mg/kg	0.03	0.48	7.1	0.03	0.0013	U	0.00084	U	0.00095	U	0.00092	U	0.00095	U	0.00083	U	0.0011	U	0.001	U	0.0012	U	0.0011	U	0.00093	U	0.

TABLE 5.1 A
SUMMARY OF SOIL SAMPLING RESULTS—VOCs

SAMPLE ID:							SB-64 (2-3)		SB-64 (7.5-8.5)		SB-65 (1-2)		SB-65 (6-7)		SB-66 (0.5-1.5)		SB-66 (8.75-9.75)		SB-68 (2.25-3.25)		SB-68 (5-6)		SB-69 (1-2)		SB-69 (8.75-9.75)		SB-70 (3.5-4.5)		SB-70 (9-10)		SB-70 (9-10)		SB-71 (1-2)		SB-71 (8-9)		SB-71(2.0-2.5)		SB-71(8.5-9.0)	
LAB SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	L2553571-03		L2553571-04		L2550665-20		L2550665-21		L2553509-01		L2553509-02		L2551038-01		L2551038-02		L2551038-03		L2551038-04		L2551038-05		L2551038-06		L2551038-06 R1		L2551039-04		L2551039-05		JE18375-1		JE18375-2	
SAMPLE DATE:							8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/13/2025		8/13/2025		8/13/2025		8/13/2025		8/13/2025		8/13/2025		8/13/2025		8/13/2025		8/13/2025		8/13/2025		9/4/2025		9/4/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
VOCs (SW846 8260D)																																								
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	NS	NS	NS	NS	0.00056	U	0.00051	U	0.00078	U	0.00064	U	0.00063	U	0.00046	U	0.00046	U	0.00055	U	0.0006	U	0.00048	U	0.0006	U	0.028	U	-		0.00067	U	0.00046	U	-		-	
1,1,1-Trichloroethane	71-55-6	mg/kg	0.68	100	500	0.68	0.00056	U	0.00051	U	0.00078	U	0.00064	U	0.00063	U	0.00046	U	0.00046	U	0.00055	U	0.0006	U	0.00048	U	0.0006	U	0.028	U	-		0.00067	U	0.00046	U	0.0021	U	0.0018	U
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	NS	NS	NS	NS	0.00056	U	0.00051	U	0.00078	U	0.00064	U	0.00063	U	0.00046	U	0.00046	U	0.00055	U	0.0006	U	0.00048	U	0.0006	U	0.028	U	-		0.00067	U	0.00046	U	0.0021	U	0.0018	U
1,1,2-Trichloroethane	79-00-5	mg/kg	NS	NS	NS	NS	0.0011	U	0.001	U	0.0016	U	0.0013	U	0.0012	U	0.00092	U	0.00092	U	0.0011	U	0.0012	U	0.00097	U	0.0012	U	0.057	U	-		0.0013	U	0.00092	U	0.0021	U	0.0018	U
1,1-Dichloroethane	75-34-3	mg/kg	0.27	47	240	0.27	0.0011	U	0.001	U	0.0016	U	0.0013	U	0.0012	U	0.00092	U	0.00092	U	0.0011	U	0.0012	U	0.00097	U	0.0012	U	0.057	U	-		0.0013	U	0.00092	U	0.0011	U	0.00092	U
1,1-Dichloroethene	75-35-4	mg/kg	0.24	0.98	5.1	0.33	0.0011	U	0.001	U	0.0016	U	0.0013	U	0.0012	U	0.00092	U	0.00092	U	0.0011	U	0.0012	U	0.00097	U	0.0012	U	0.057	U	-		0.0013	U	0.00092	U	0.0011	U	0.00092	U
1,1-Dichloropropene	563-58-6	mg/kg	NS	NS	NS	NS	0.00056	U	0.00051	U	0.00078	U	0.00064	U	0.00063	U	0.00046	U	0.00046	U	0.00055	U	0.0006	U	0.00048	U	0.0006	U	0.028	U	-		0.00067	U	0.00046	U	-		-	
1,2,3-Trichlorobenzene	87-61-6	mg/kg	NS	NS	NS	NS	0.0022	U	0.002	U	0.0031	U	0.0026	U	0.0025	U	0.0018	U	0.0018	U	0.0022	U	0.0024	U	0.0019	U	0.0024	U	0.11	U	-		0.0027	U	0.0018	U	0.0053	U	0.0046	U
1,2,3-Trichloropropane	96-18-4	mg/kg	NS	NS	NS	NS	0.0022	U	0.002	U	0.0031	U	0.0026	U	0.0025	U	0.0018	U	0.0018	U	0.0022	U	0.0024	U	0.0019	U	0.0024	U	0.11	U	-		0.0027	U	0.0018	U	-		-	
1,2,4,5-Tetramethylbenzene	95-93-2	mg/kg	NS	NS	NS	NS	0.0022	U	0.002	U	0.0031	U	0.0026	U	0.0025	U	0.0018	U	0.00057	J	0.0022	U	0.0024	U	0.0019	U	0.0024	U	14		-		0.0027	U	0.0018	U	-		-	
1,2,4-Trichlorobenzene	120-82-1	mg/kg	NS	NS	NS	NS	0.0022	U	0.002	U	0.0031	U	0.0026	U	0.0025	U	0.0018	U	0.0018	U	0.0022	U	0.0024	U	0.0019	U	0.0024	U	0.11	U	-		0.0027	U	0.0018	U	0.0053	U	0.0046	U
1,2,4-Trimethylbenzene	95-63-6	mg/kg	5.9	100	500	5.9	0.0022	U	0.002	U	0.0031	U	0.0026	U	0.0025	U	0.0018	U	0.0018	U	0.0022	U	0.0024	U	0.0019	U	0.0024	U	110	E	150		0.0027	U	0.0018	U	-		-	
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	NS	NS	NS	NS	0.0034	U	0.003	U	0.0047	U	0.0038	U	0.0038	U	0.0027	U	0.0028	U	0.0033	U	0.0036	U	0.0029	U	0.0036	U	0.17	U	-		0.004	U	0.0028	U	0.0021	U	0.0018	U
1,2-Dibromoethane	106-93-4	mg/kg	NS	NS	NS	NS	0.0011	U	0.001	U	0.0016	U	0.0013	U	0.0012	U	0.00092	U	0.00092	U	0.0011	U	0.0012	U	0.00097	U	0.0012	U	0.057	U	-		0.0013	U	0.00092	U	0.0011	U	0.00092	U
1,2-Dichlorobenzene	95-50-1	mg/kg	1.1	100	500	1.1	0.0022	U	0.002	U	0.0031	U	0.0026	U	0.0025	U	0.0018	U	0.0018	U	0.0022	U	0.0024	U	0.0019	U	0.0024	U	0.11	U	-		0.0027	U	0.0018	U	0.0011	U	0.00092	U
1,2-Dichloroethane	107-06-2	mg/kg	0.02	5.8	30	0.02	0.0011	U	0.001	U	0.0016	U	0.0013	U	0.0012	U	0.00092	U	0.00092	U	0.0011	U	0.0012	U	0.00097	U	0.0012	U	0.057	U	-		0.0013	U	0.00092	U	0.0011	U	0.00092	U
1,2-Dichloroethene, Total	540-59-0	mg/kg	NS	NS	NS	NS	0.0011	U	0.001	U	0.0016	U	0.0013	U	0.0012	U	0.00092	U	0.00092	U	0.0011	U	0.0012	U	0.00097	U	0.0012	U	0.057	U	-		0.0013	U	0.00092	U	-		-	
1,2-Dichloropropane	78-87-5	mg/kg	NS	NS	NS	NS	0.0011	U	0.001	U	0.0016	U	0.0013	U	0.0012	U	0.00092	U	0.00092	U	0.0011	U	0.0012	U	0.00097	U	0.0012	U	0.057	U	-		0.0013	U	0.00092	U	0.0021	U	0.0018	U
1,3,5-Trimethylbenzene	108-67-8	mg/kg	3.1	100	500	3.1	0.0022	U	0.002	U	0.0031	U	0.0026	U	0.0025	U	0.0018	U	0.0018	U	0.0022	U	0.0024	U	0.0019	U	0.0024	U	41	E	41		0.0027	U	0.0018	U	-		-	
1,3-Dichlorobenzene	541-73-1	mg/kg	2.6	38	280	2.6	0.0022	U	0.002	U	0.0031	U	0.0026	U	0.0025	U	0.0018	U	0.0018	U	0.0022	U	0.0024	U	0.0019	U	0.0024	U	0.11	U	-		0.0027	U	0.0018	U	0.0011	U	0.00092	U
1,3-Dichloropropane	142-28-9	mg/kg	NS	NS	NS	NS	0.0022	U	0.002	U	0.0031	U	0.0026	U	0.0025	U	0.0018	U	0.0018	U	0.0022	U	0.0024	U	0.0019	U	0.0024	U	0.11	U	-		0.0027	U	0.0018	U	-		-	
1,3-Dichloropropene, Total	542-75-6	mg/kg	NS	NS	NS	NS	0.00056	U	0.00051	U	0.00078	U	0.00064	U	0.00063	U	0.00046	U	0.00046	U	0.00055	U	0.0006	U	0.00048	U	0.0006	U	0.028	U	-		0.00067	U	0.00046	U	-		-	
1,4-Dichlorobenzene	106-46-7	mg/kg	1.8	24	130	1.8	0.0022	U	0.002	U	0.0031	U	0.0026	U	0.0025	U	0.0018	U	0.0018	U	0.0022	U	0.0024	U	0.0019	U	0.0024	U	0.11	U	-		0.0027	U	0.0018	U	0.0011	U	0.00092	U
1,4-Dioxane	123-91-1	mg/kg	0.1	5.7	36	0.1	0.09	U	0.081	U	0.12	U	0.1	U	0.1	U	0.073	U	0.073	U	0.088	U	0.096	U	0.078	U	0.095	U	4.6	U	-		0.11	U	0.074	U	-		-	
2,2-Dichloropropane	594-20-7	mg/kg	NS	NS	NS	NS	0.0022	U	0.002	U	0.0031	U	0.0026	U	0.0025	U	0.0018	U	0.0018	U	0.0022	U	0.0024	U	0.0019	U	0.0024	U	0.11	U	-		0.0027	U	0.0018	U	-		-	
2-Butanone (MEK)	78-93-3	mg/kg	0.1	100	500	0.1	0.011	U	0.01	U	0.016	U	0.013	U	0.012	U	0.0092	U	0.0024	J	0.011	U	0.012	U	0.0028	J	0.012	U	0.57	U	-		0.013	U	0.0092	U	0.011	U	0.0092	U
2-Hexanone	591-78-6	mg/kg	NS	NS	NS	NS	0.011	U	0.01	U	0.016	U	0.013	U	0.012	U	0.0092	U	0.0092	U	0.011	U	0.012	U	0.0097	U	0.012	U	0.57	U	-		0.013	U	0.0092	U	0.0053	U	0.0046	U
4-Methyl-2-pentanone(MIBK)	108-10-1	mg/kg	NS	NS	NS	NS	0.011	U	0.01	U	0.016	U	0.013	U	0.012	U	0.0092	U	0.0092	U	0.011	U	0.012	U	0.0097	U	0.012	U	0.57	U	-		0.013	U	0.0092	U	0.0053	U	0.0046	U
Acetone	67-64-1	mg/kg	0.03	100	500	0.03	0.0071	J	0.01	U	0.016	U	0.013	U	0.012	U	0.0092	U	0.011	J	0.0064	J	0.0074	J	0.015	J	0.12	U	0.57	J	-		0.0077	J	0.0092	U	0.0055	J	0.0059	J
Acrylonitrile	107-13-1	mg/kg	NS	NS	NS	NS	0.0045	U	0.004	U	0.0063	U	0.0051	U	0.005	U	0.0037	U	0.0037	U	0.0044	U	0.0048	U	0.0039	U	0.0048	U	0.23	U	-		0.0054	U	0.0037	U	-		-	
Benzene	71-43-2	mg/kg	0.06	3.7	20	0.06	0.00056	U	0.00051	U	0.00078	U	0.00064	U	0.00063	U	0.00046	U	0.00046	U	0.00055	U	0.0006	U	0.00048	U	0.0006	U	0.028	U	-		0.00067	U	0.00046	U	0.00053	U	0.00046	U
Bromobenzene	108-86-1	mg/kg	NS	NS	NS	NS	0.0022	U	0.002	U	0.0031	U	0.0026	U	0.0025	U	0.0018	U	0.0018	U	0.0022	U	0.0024	U	0.0019	U	0.0024	U	0.11	U	-		0.0027	U	0.0018	U	-		-	
Bromochloromethane	74-97-5	mg/kg	NS	NS	NS	NS	0.0022	U	0.002	U	0.0031	U	0.0026	U	0.0025	U	0.0018	U	0.0018	U	0.0022	U	0.0024	U	0.0019	U	0.0024	U	0.11	U	-		0.0027	U	0.0018	U	0.0053	U	0.0046	U
Bromodichloromethane	75-27-4	mg/kg	NS	NS	NS	NS	0.00056	U	0.00051	U	0.00078	U	0.00064	U	0.00063	U	0.00046	U	0.00046	U	0.00055	U	0.0006	U	0.00048	U	0.0006	U	0.028	U	-		0.00067	U	0.00046	U	0.0021	U	0.0018	U
Bromoform	75-25-2	mg/kg	NS	NS	NS	NS	0.0045	U	0.004	U	0.0063	U	0.0051	U	0.005	U	0.0037	U	0.0037	U	0.0044	U	0.0048	U	0.0039	U	0.0048	U	0.23	U	-		0.0054	U	0.0037	U	0.0053	U	0.0046	U
Bromomethane	74-83-9	mg/kg	NS	NS	NS	NS	0.0022	U	0.002	U	0.0031	U	0.0026	U	0.0025	U	0.0018	U	0.0018	U	0.0022	U	0.0024	U	0.0019	U	0.0024	U	0.11	U	-		0.0027	U	0.0018	U	0.0053	U	0.0046	U
Carbon disulfide	75-15-0	mg/kg	NS	NS	NS	NS	0.011	U	0.01	U	0.016	U	0.013	U	0.012	U	0.0092	U	0.0092	U	0.011	U	0.012	U	0.0097	U	0.012	U	0.57	U	-		0.013	U	0.0092	U	0.0021	U	0.0018	U
Carbon tetrachloride	56-23-5	mg/kg	0.76	7.1	41	0.76	0.0011	U	0.001	U	0.0016	U	0.0013	U	0.0012	U	0.00092	U	0.00092	U	0.0011	U	0.0012	U	0.00097	U	0.0012	U	0.057	U	-		0.0013	U	0.00092	U	0.0021	U	0.0018	U
Chlorobenzene	108-90-7	mg/kg	4.5	100	500	4.5	0.00056	U	0.00051	U	0.00078	U	0.00064	U	0.00063	U	0.00046	U	0.00046	U	0.00055	U	0.0006	U	0.00048	U	0.0006	U	0.028	U	-		0.00067	U	0.00046	U	0.0021	U	0.0018	U
Chloroethane	75-00-3	mg/kg	NS	NS	NS	NS	0.0022	U	0.002	U	0.0031	U	0.0026	U	0.0025	U	0.0018	U	0.0018	U	0.0022	U	0.0024	U	0.0019	U	0.0024	U	0.11	U	-		0.0027	U	0.0018	U	0.0053	U	0.0046	U
Chloroform	67-66-3	mg/kg	0.37	24	180	0.37	0.0017	U	0.0015	U	0.0023	U	0.0019	U	0.0019	U	0.0014	U	0.0014	U	0.0016	U	0.0018	U	0.0014	U	0.0018	U	0.086	U	-		0.002	U	0.0014	U	0.0021	U	0.0018	U
Chloromethane	74-87-3	mg/kg	NS	NS	NS	NS	0.0045	U	0.004	U	0.0063	U	0.0051	U	0.005	U	0.0037	U	0.0037	U	0.0044	U	0.0048	U	0.0039	U	0.0048	U	0.23	U	-		0.0054	U	0.0037	U	0.0053	U	0.0046	U
cis-1,2-Dichloroethene	156-59-2	mg/kg	0.19	41	500	0.19	0.0011	U	0.001	U	0.0016	U	0.0013	U	0.0012	U	0.00092	U	0.00092	U	0.0011	U	0.0012	U	0.00097	U	0.0012	U	0.057	U	-		0.0013	U	0.00092	U	0.0011	U	0.00092	U
cis-1,3-Dichloropropene	10061-01-5	mg/kg	NS	NS	NS	NS	0.00056	U	0.00051	U	0.00078	U	0.00064	U	0.00063	U	0.00046	U	0.00046	U	0.00055	U	0.0006	U	0.00048	U	0.0006	U	0.028	U	-		0.00067	U	0.00046	U	0.0021	U	0.0018	U
Cyclohexane	110-82-7	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		0.0021	U	0.0018	U
Dibromochloromethane	124-48-1	mg/kg	NS	NS	NS	NS	0.0011	U	0.001	U	0.0016	U	0.0013	U	0.0012	U	0.00092	U	0.00092	U	0.0011	U	0.0012	U	0.00097	U	0.0012	U	0.057	U	-		0.0013	U	0.00092	U	0.0021	U	0.0018	U
Dibromomethane	74-95-3	mg/kg	NS	NS	NS	NS	0.0022	U	0.002	U	0.0031	U	0.0026	U	0.0025	U	0.0018	U	0.0018	U	0.0022	U	0.0024	U	0.0019	U	0.0024	U	0.11	U	-		0.0027	U	0.0018	U	-		-	
Dichlorodifluoromethane	75-71-8	mg/kg	NS	NS	NS	NS	0.011	U	0.01	U	0.016	U	0.013	U	0.012	U	0.0092	U	0.0092	U	0.011	U	0.012	U	0.0097	U	0.012	U	0.57	U	-		0.013	U	0.0092	U	0.0053	U	0.0046	U
Ethyl ether	60-29-7	mg/kg	NS	NS	NS	NS	0.0022	U	0.002	U	0.0031	U	0.0026	U	0.0025	U	0.0018	U	0.0018	U	0.0022	U	0.0024	U	0.0019	U	0.0024	U	0.11	U	-		0.0027	U	0.0018	U	-		-	
Ethylbenzene	100-41-4	mg/kg	1	76	390	1	0.0011	U	0.001	U	0.0016	U	0.0013	U	0.0012	U	0.00092	U	0.00092	U	0.0011	U	0.0012	U	0.00097	U	0.0012	U	22	E	22		0.0013	U	0.00092	U	0.0011	U	0.00092	U
Freon 113	76-13-1	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		0.0053	U	0.0046	U
Hexachlorobutadiene	87-68-3	mg/kg	NS	NS	NS	NS	0.0045	U	0.004	U	0.0063	U	0.0051	U	0.005	U	0.0037	U	0.0037	U	0.0044	U	0.0048	U	0.0039	U	0.0048	U	0.23	U	-		0.0054	U	0.0037	U	-		-	
Isopropylbenzene	98-82-8	mg/kg	NS	NS	NS	NS	0.0011	U	0.001	U	0.0016	U	0.0013	U	0.0012	U	0.00092	U	0.00092	U	0.0011	U	0.0012	U	0.00097	U	0.0012	U	8.8		-		0.0013	U	0.00092	U	0.0021	U	0.0018	U
m,p-Xylene	179601-23-1	mg/kg	NS	NS	NS	NS	0.0022	U	0.002	U	0.0031	U	0.0026	U	0.0025	U	0.0018	U	0.0018	U	0.0022	U	0.0024	U	0.0019	U	0.0024	U	79	E	77		0.0027	U	0.0018	U	0.0011	U	0.00092	U
Methyl Acetate	79-20-9	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		0.0053	U	0.0046	U
Methyl Tert Butyl Ether	1634-04-4	mg/kg	0.1	100	500	0.1	0.0022	U	0.002	U	0.0031	U	0.0026	U	0.0025	U	0.0018	U	0.0018	U	0.0022	U	0.0024	U	0.0019	U	0.0024	U	0.11	U	-		0.0027	U	0.0018	U	0.0011	U	0.00092	U
Methylcyclohexane	108-87-2	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		0.0021	U	0.0018	U
Methylene chloride	75-09-2	mg/kg	0.05	81	500	0.05	0.0056	U	0.0051	U	0.0078	U	0.0064	U	0.0063	U	0.0046	U	0.0033	J	0.0037	J	0.003	J	0.0024	J	0.0034	J	0.28	U	-		0.0067	U	0.0046	U	0.0053	U	0.0046	U
Naphthalene	91-20-3	mg/kg	12	100	500	12	0.0045	U	0.004	U	0.0063	U	0.0051	U	0.005	U	0.0037	U	0.0037	U	0.0044	U	0.0048	U	0.0039	U	0.0048	U	25	E	24		0.0054	U	0.0037	U	-		-	
n-Butylbenzene	104-51-8	mg/kg	18	100	500	18	0.0011	U	0.001	U	0.0016	U	0.0013	U	0.0012	U	0.00092	U	0.00092	U	0.0011	U	0.0012	U	0.00097	U	0.0012	U	7.3		-		0.0013	U	0.00092	U	-		-	
n-Propylbenzene	103-65-1	mg/kg	5	100	500	5	0.0011	U	0.001	U	0.0016	U	0.0013	U	0.0012	U	0.00092	U	0.00092	U	0.0011	U	0.0012	U	0.00097	U	0.0012	U	29	E	31		0.0013	U	0.00092	U	-		-	
o-Chlorotoluene	95-49-8	mg/kg	NS	NS	NS	NS	0.0022	U	0.002	U	0.0031	U	0.0026	U	0.0025	U	0.0018	U	0.0018	U	0.0022	U	0.0024	U	0.0019	U	0.0024	U	0.11	U	-		0.0027	U	0.0018	U	-		-	
o-Xylene	95-47-6	mg/kg	NS	NS	NS	NS	0.0011	U	0.001	U	0.0016	U	0.0013	U	0.0012	U	0.00092	U	0.00092	U	0.0011	U	0.0012	U	0.00097	U	0.0012	U	10		-		0.0013	U	0.00092	U	0.0011	U	0.00092	U
p-Chlorotoluene	106-43-4	mg/kg	NS	NS	NS	NS	0.0022	U	0.002	U	0.0031	U	0.0026	U	0.0025	U	0.0018	U	0.0018	U	0.0022	U	0.0024	U	0.0019	U	0.0024	U	0.11	U	-		0.0027	U	0.0018	U	-		-	
p-Diethylbenzene	105-05-5	mg/kg	NS	NS	NS	NS	0.0022	U	0.002	U	0.0031	U	0.0026	U	0.0025	U	0.0018	U	0.0018	U	0.0022	U	0.0024	U	0.0019	U	0.0024	U	37	E	4		0.0027	U	0.0018	U	-		-	
p-Ethyltoluene	622-96-8	mg/kg	NS	NS	NS	NS	0.0022	U	0.002	U	0.0031	U	0.0026	U	0.0025	U	0.0018	U	0.0018	U	0.0022	U	0.0024	U	0.0019	U	0.0024	U	97	E	100		0.0027	U	0.0018	U	-		-	
p-Isopropyltoluene	99-87-6	mg/kg	NS	NS	NS	NS	0.0011	U	0.001	U	0.0016	U	0.0013	U	0.0012	U	0.00092	U	0.00092	U	0.0011	U	0.0012	U	0.00097	U	0.0012	U	1.5		-		0.0013	U	0.00092	U	-		-	
sec-Butylbenzene	135-98-8	mg/kg	25	100	500	25	0.0011	U	0.001	U	0.0016	U	0.0013	U	0.0012	U	0.00092	U	0.00092	U	0.0011	U	0.0012	U	0.00097	U	0.0012	U	3.5		-		0.0013	U	0.00092	U	-		-	
Styrene	100-42-5	mg/kg	NS	NS	NS	NS	0.0011	U	0.001	U	0.0016	U	0.0013	U	0.0012	U	0.00092	U	0.00092	U	0.0011	U	0.0012	U	0.00097	U	0.0012	U	0.057	U	-		0.0013	U	0.00092	U	0.0021	U	0.0018	U
tert-Butylbenzene	98-06-6	mg/kg	11	100	500	11	0.0022	U	0.002	U	0.0031	U	0.0026	U	0.0025	U	0.0018	U	0.0018	U	0.0022	U	0.0024	U	0.0019	U	0.0024	U	0.13		-		0.0027	U	0.0018	U	-		-	
Tetrachloroethene	127-18-4	mg/kg	1.3	18	81	1.3	0.00056	U	0.00051	U	0.00078	U	0.00064	U	0.00063	U	0.00046	U	0.00046	U	0.00055	U	0.0006	U	0.00048	U	0.0006	U	0.028	U	-		0.00067	U	0.00046	U	0.0021	U	0.0018	U
Toluene	108-88-3	mg/kg	0.7	100	500	0.7	0.0011	U	0.001	U	0.0016	U	0.0013	U	0.0012	U	0.00092	U	0.00092	U	0.0011	U	0.0012	U	0.00097	U	0.0012	U	0.057	U	-		0.0013	U	0.00092	U	0.0011	U	0.00092	U
trans-1,2-Dichloroethene	156-60-5	mg/kg	0.19	100	500	0.19	0.0017	U	0.0015	U	0.0023	U	0.0019	U	0.0019	U	0.0014	U	0.0014	U	0.0016	U	0.0018	U	0.0014	U	0.0018	U	0.086	U	-		0.002	U	0.0014	U	0.0011	U	0.00092	U
trans-1,3-Dichloropropene	10061-02-6	mg/kg	NS	NS	NS	NS	0.0011	U	0.001	U	0.0016	U	0.0013	U	0.0012	U	0.00092	U	0.00092	U	0.0011	U	0.0012	U	0.00097	U	0.0012	U	0.057	U	-		0.0013	U	0.00092	U	0.0021	U	0.0018	U
trans-1,4-Dichloro-2-butene	110-57-6	mg/kg	NS	NS	NS	NS	0.0056	U	0.0051	U	0.0078	U	0.0064	U	0.0063	U	0.0046	U	0.0046	U	0.0055	U	0.006	U	0.0048	U	0.006	U	0.28	U	-		0.0067	U	0.0046	U	-		-	
Trichloroethene	79-01-6	mg/kg	0.47	6.4	54	0.47	0.00056	U	0.00051	U	0.00078	U	0.00064	U	0.00063	U	0.00046	U	0.00046	U	0.00055	U	0.0006	U	0.00048	U	0.0006	U	0.028	U	-		0.00067	U	0.00046	U	0.0011	U	0.00092	U
Trichlorofluoromethane	75-69-4	mg/kg	NS	NS	NS	NS	0.0045	U	0.004	U	0.0063	U	0.0051	U	0.005	U	0.0037	U	0.0037	U	0.0044	U	0.0048	U	0.0039	U	0.0048	U	0.23	U	-		0.0054	U	0.0037	U	0.0053	U	0.0046	U
Vinyl acetate	108-05-4	mg/kg	NS	NS	NS	NS	0.011	U	0.01	U	0.016	U	0.013	U	0.012	U	0.0092	U	0.0092	U	0.011	U	0.012	U	0.0097	U	0.012	U	0.57	U	-		0.013	U	0.0092	U	-		-	
Vinyl chloride	75-01-4	mg/kg	0.03	0.48	7.1	0.03	0.0011	U	0.001	U	0.0016	U	0.0013	U	0.0012	U	0.00092	U	0.00092	U	0.0011	U	0.0012	U	0.00097	U	0.0012	U	0.057	U	-		0.0013	U	0.00092	U	0.0021	U	0.0018	U
Xylene (total)	1330-20-7	mg/kg	0.26	100	500	1.2	0.0011	U	0.001	U	0.0016	U	0.0013	U	0.0012	U	0.00092	U	0.00092	U	0.0011	U	0.0012	U	0.00097	U	0.0012	U	87		-		0.0013	U	0.00092	U	0.0011	U	0.00092	U
Total TIC, Volatile	-	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		0		0	

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs
Concentration Exceeds NYSDEC RRUSCOs
Concentration Exceeds NYSDEC UUSCOs
Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

TABLE 5.1 A
SUMMARY OF SOIL SAMPLING RESULTS—VOCs

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-72(2.0-2.5)		SB-72(5.5-6.0)		SB-73(1.5-2.0)		SB-73(8.0-8.5)		SB-73(12.5-13)		SB-74 (2.5-3.0)		SB-74 (6.5-7.0)		SB-74 (13.5-14.0)		SB-74 (16.5-17.0)		SB-75 (3.0-3.5)		SB-75 (6.5-7.0)		SB-75 (12.0-12.5)		SB-75 (18.0-18.5)		SB-76 (2.0-2.5)		SB-76 (5.5-6.0)		SB-76 (12.5-13.0)		SB-76 (17.5-18.0)	
LAB SAMPLE ID:							JE18375-8		JE18375-9		JE18375-3		JE18375-4		JE18375-5		JE18488-9		JE18488-10		JE18488-11		JE18488-12		JE18488-5		JE18488-6		JE18488-7		JE18488-8		JE18488-1		JE18488-2		JE18488-3		JE18488-4	
SAMPLE DATE:							9/4/2025		9/4/2025		9/4/2025		9/4/2025		9/4/2025		9/5/2025		9/5/2025		9/5/2025		9/5/2025		9/5/2025		9/5/2025		9/5/2025		9/5/2025		9/5/2025		9/5/2025		9/5/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
VOCs (SW846 8260D)																																								
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
1,1,1-Trichloroethane	71-55-6	mg/kg	0.68	100	500	0.68	0.1	U	0.0016	U	0.0024	U	0.1	U	0.0019	U	0.0022	U	0.002	U	0.0024	U	0.0018	U	0.0023	U	0.0021	U	0.0023	U	0.0019	U	0.0032	U	0.0021	U	0.0021	U	0.0021	U
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	NS	NS	NS	NS	0.1	U	0.0016	U	0.0024	U	0.1	U	0.0019	U	0.0022	U	0.002	U	0.0024	U	0.0018	U	0.0023	U	0.0021	U	0.0023	U	0.0019	U	0.0032	U	0.0021	U	0.0021	U	0.0021	U
1,1,2-Trichloroethane	79-00-5	mg/kg	NS	NS	NS	NS	0.1	U	0.0016	U	0.0024	U	0.1	U	0.0019	U	0.0022	U	0.002	U	0.0024	U	0.0018	U	0.0023	U	0.0021	U	0.0023	U	0.0019	U	0.0032	U	0.0021	U	0.0021	U	0.0021	U
1,1-Dichloroethane	75-34-3	mg/kg	0.27	47	240	0.27	0.051	U	0.00078	U	0.0012	U	0.05	U	0.00096	U	0.0011	U	0.00099	U	0.0012	U	0.00089	U	0.0011	U	0.0011	U	0.0012	U	0.00093	U	0.0016	U	0.0011	U	0.0011	U	0.0011	U
1,1-Dichloroethene	75-35-4	mg/kg	0.24	0.98	5.1	0.33	0.051	U	0.00078	U	0.0012	U	0.05	U	0.00096	U	0.0011	U	0.00099	U	0.0012	U	0.00089	U	0.0011	U	0.0011	U	0.0012	U	0.00093	U	0.0016	U	0.0011	U	0.0011	U	0.0011	U
1,1-Dichloropropene	563-58-6	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
1,2,3-Trichlorobenzene	87-61-6	mg/kg	NS	NS	NS	NS	0.25	U	0.0039	U	0.0059	U	0.25	U	0.0048	U	0.0056	U	0.005	U	0.0059	U	0.0045	U	0.0057	U	0.0054	U	0.0058	U	0.0046	U	0.0081	U	0.0053	U	0.0054	U	0.0053	U
1,2,3-Trichloropropane	96-18-4	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
1,2,4,5-Tetramethylbenzene	95-93-2	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
1,2,4-Trichlorobenzene	120-82-1	mg/kg	NS	NS	NS	NS	0.25	U	0.0039	U	0.0059	U	0.25	U	0.0048	U	0.0056	U	0.005	U	0.0059	U	0.0045	U	0.0057	U	0.0054	U	0.0058	U	0.0046	U	0.0081	U	0.0053	U	0.0054	U	0.0053	U
1,2,4-Trimethylbenzene	95-63-6	mg/kg	5.9	100	500	5.9	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	NS	NS	NS	NS	0.1	U	0.0016	U	0.0024	U	0.1	U	0.0019	U	0.0022	U	0.002	U	0.0024	U	0.0018	U	0.0023	U	0.0021	U	0.0023	U	0.0019	U	0.0032	U	0.0021	U	0.0021	U	0.0021	U
1,2-Dibromoethane	106-93-4	mg/kg	NS	NS	NS	NS	0.051	U	0.00078	U	0.0012	U	0.05	U	0.00096	U	0.0011	U	0.00099	U	0.0012	U	0.00089	U	0.0011	U	0.0011	U	0.0012	U	0.00093	U	0.0016	U	0.0011	U	0.0011	U	0.0011	U
1,2-Dichlorobenzene	95-50-1	mg/kg	1.1	100	500	1.1	0.051	U	0.00078	U	0.0012	U	0.05	U	0.00096	U	0.0011	U	0.00099	U	0.0012	U	0.00089	U	0.0011	U	0.0011	U	0.0012	U	0.00093	U	0.0016	U	0.0011	U	0.0011	U	0.0011	U
1,2-Dichloroethane	107-06-2	mg/kg	0.02	5.8	30	0.02	0.051	U	0.00078	U	0.0012	U	0.05	U	0.00096	U	0.0011	U	0.00099	U	0.0012	U	0.00089	U	0.0011	U	0.0011	U	0.0012	U	0.00093	U	0.0016	U	0.0011	U	0.0011	U	0.0011	U
1,2-Dichloroethene, Total	540-59-0	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
1,2-Dichloropropane	78-87-5	mg/kg	NS	NS	NS	NS	0.1	U	0.0016	U	0.0024	U	0.1	U	0.0019	U	0.0022	U	0.002	U	0.0024	U	0.0018	U	0.0023	U	0.0021	U	0.0023	U	0.0019	U	0.0032	U	0.0021	U	0.0021	U	0.0021	U
1,3,5-Trimethylbenzene	108-67-8	mg/kg	3.1	100	500	3.1	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
1,3-Dichlorobenzene	541-73-1	mg/kg	2.6	38	280	2.6	0.051	U	0.00078	U	0.0012	U	0.05	U	0.00096	U	0.0011	U	0.00099	U	0.0012	U	0.00089	U	0.0011	U	0.0011	U	0.0012	U	0.00093	U	0.0016	U	0.0011	U	0.0011	U	0.0011	U
1,3-Dichloropropane	142-28-9	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
1,3-Dichloropropene, Total	542-75-6	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
1,4-Dichlorobenzene	106-46-7	mg/kg	1.8	24	130	1.8	0.051	U	0.00078	U	0.0012	U	0.05	U	0.00096	U	0.0011	U	0.00099	U	0.0012	U	0.00089	U	0.0011	U	0.0011	U	0.0012	U	0.00093	U	0.0016	U	0.0011	U	0.0011	U	0.0011	U
1,4-Dioxane	123-91-1	mg/kg	0.1	5.7	36	0.1	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
2,2-Dichloropropane	594-20-7	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
2-Butanone (MEK)	78-93-3	mg/kg	0.1	100	500	0.1	0.51	U	0.0078	U	0.012	U	0.5	U	0.0096	U	0.011	U	0.0099	U	0.012	U	0.0089	U	0.011	U	0.011	U	0.012	U	0.0093	U	0.016	U	0.011	U	0.011	U	0.011	U
2-Hexanone	591-78-6	mg/kg	NS	NS	NS	NS	0.25	U	0.0039	U	0.0059	U	0.25	U	0.0048	U	0.0056	U	0.005	U	0.0059	U	0.0045	U	0.0057	U	0.0054	U	0.0058	U	0.0046	U	0.0081	U	0.0053	U	0.0054	U	0.0053	U
4-Methyl-2-pentanone(MIBK)	108-10-1	mg/kg	NS	NS	NS	NS	0.25	U	0.0039	U	0.0059	U	0.25	U	0.0048	U	0.0056	U	0.005	U	0.0059	U	0.0045	U	0.0057	U	0.0054	U	0.0058	U	0.0046	U	0.0081	U	0.0053	U	0.0054	U	0.0053	U
Acetone	67-64-1	mg/kg	0.03	100	500	0.03	0.51	U	0.0102		0.012	U	0.5	U	0.0053	J	0.011	U	0.0042	J	0.0057	J	0.0089	U	0.011	U	0.011	U	0.012	U	0.0039	J	0.016	U	0.0104	J	0.0054	J	0.011	U
Acrylonitrile	107-13-1	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Benzene	71-43-2	mg/kg	0.06	3.7	20	0.06	0.025	U	0.00039	U	0.00059	U	0.025	U	0.00048	U	0.00056	U	0.0005	U	0.00059	U	0.00045	U	0.00057	U	0.00054	U	0.00058	U	0.00046	U	0.00081	U	0.00053	U	0.00054	U	0.00053	U
Bromobenzene	108-86-1	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Bromochloromethane	74-97-5	mg/kg	NS	NS	NS	NS	0.25	U	0.0039	U	0.0059	U	0.25	U	0.0048	U	0.0056	U	0.005	U	0.0059	U	0.0045	U	0.0057	U	0.0054	U	0.0058	U	0.0046	U	0.0081	U	0.0053	U	0.0054	U	0.0053	U
Bromodichloromethane	75-27-4	mg/kg	NS	NS	NS	NS	0.1	U	0.0016	U	0.0024	U	0.1	U	0.0019	U	0.0022	U	0.002	U	0.0024	U	0.0018	U	0.0023	U	0.0021	U	0.0023	U	0.0019	U	0.0032	U	0.0021	U	0.0021	U	0.0021	U
Bromoform	75-25-2	mg/kg	NS	NS	NS	NS	0.25	U	0.0039	U	0.0059	U	0.25	U	0.0048	U	0.0056	U	0.005	U	0.0059	U	0.0045	U	0.0057	U	0.0054	U	0.0058	U	0.0046	U	0.0081	U	0.0053	U	0.0054	U	0.0053	U
Bromomethane	74-83-9	mg/kg	NS	NS	NS	NS	0.25	U	0.0039	U	0.0059	U	0.25	U	0.0048	U	0.0056	U	0.005	U	0.0059	U	0.0045	U	0.0057	U	0.0054	U	0.0058	U	0.0046	U	0.0081	U	0.0053	U	0.0054	U	0.0053	U
Carbon disulfide	75-15-0	mg/kg	NS	NS	NS	NS	0.1	U	0.0016	U	0.0024	U	0.1	U	0.0019	U	0.0022	U	0.002	U	0.0024	U	0.0018	U	0.0023	U	0.0021	U	0.0023	U	0.0019	U	0.0032	U	0.0021	U	0.0021	U	0.0021	U
Carbon tetrachloride	56-23-5	mg/kg	0.76	7.1	41	0.76	0.1	U	0.0016	U	0.0024	U	0.1	U	0.0019	U	0.0022	U	0.002	U	0.0024	U	0.0018	U	0.0023	U	0.0021	U	0.0023	U	0.0019	U	0.0032	U	0.0021	U	0.0021	U	0.0021	U
Chlorobenzene	108-90-7	mg/kg	4.5	100	500	4.5	0.1	U	0.0016	U	0.0024	U	0.1	U	0.0019	U	0.0022	U	0.002	U	0.0024	U	0.0018	U	0.0023	U	0.0021	U	0.0023	U	0.0019	U	0.0032	U	0.0021	U	0.0021	U	0.0021	U
Chloroethane	75-00-3	mg/kg	NS	NS	NS	NS	0.25	U	0.0039	U	0.0059	U	0.25	U	0.0048	U	0.0056	U	0.005	U	0.0059	U	0.0045	U	0.0057	U	0.0054	U	0.0058	U	0.0046	U	0.0081	U	0.0053	U	0.0054	U	0.0053	U
Chloroform	67-66-3	mg/kg	0.37	24	180	0.37	0.1	U	0.0016	U	0.0024	U	0.1	U	0.0019	U	0.0022	U	0.002	U	0.0024	U	0.0018	U	0.0023	U	0.0021	U	0.0023	U	0.0019	U	0.0032	U	0.0021	U	0.0021	U	0.0021	U
Chloromethane	74-87-3	mg/kg	NS	NS	NS	NS	0.25	U	0.0039	U	0.0059	U	0.25	U	0.0048	U	0.0056	U	0.005	U	0.0059	U	0.0045	U	0.0057	U	0.0054	U	0.0058	U	0.0046	U	0.0081	U	0.0053	U	0.0054	U	0.0053	U
cis-1,2-Dichloroethene	156-59-2	mg/kg	0.19	41	500	0.19	0.051	U	0.00078	U	0.0012	U	0.05	U	0.00096	U	0.0011	U	0.00099	U	0.0012	U	0.00089	U	0.0011	U	0.0011	U	0.0012	U	0.00093	U	0.0016	U	0.0011	U	0.0011	U	0.0011	U
cis-1,3-Dichloropropene	10061-01-5	mg/kg	NS	NS	NS	NS	0.1	U	0.0016	U	0.0024	U	0.1	U	0.0019	U	0.0022	U	0.002	U	0.0024	U	0.0018	U	0.0023	U	0.0021	U	0.0023	U	0.0019	U	0.0032	U	0.0021	U	0.0021	U	0.0021	U
Cyclohexane	110-82-7	mg/kg	NS	NS	NS	NS	0.1	U	0.0016	U	0.0024	U	0.1	U	0.0019	U	0.0022	U	0.002	U	0.0024	U	0.0018	U	0.0023	U	0.0021	U	0.0023	U	0.0019	U	0.0032	U	0.0021	U	0.0021	U	0.0021	U
Dibromochloromethane	124-48-1	mg/kg	NS	NS	NS	NS	0.1	U	0.0016	U	0.0024	U	0.1	U	0.0019	U	0.0022	U	0.002	U	0.0024	U	0.0018	U	0.0023	U	0.0021	U	0.0023	U	0.0019	U	0.0032	U	0.0021	U	0.0021	U	0.0021	U
Dibromomethane	74-95-3	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Dichlorodifluoromethane	75-71-8	mg/kg	NS	NS	NS	NS	0.25	U	0.0039	U	0.0059	U	0.25	U	0.0048	U	0.0056	U	0.005	U	0.0059	U	0.0045	U	0.0057	U	0.0054	U	0.0058	U	0.0046	U	0.0081	U	0.0053	U	0.0054	U	0.0053	U
Ethyl ether	60-29-7	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Ethylbenzene	100-41-4	mg/kg	1	76	390	1	0.0908		0.00078	U	0.0012	U	0.05	U	0.00096	U	0.0011	U	0.00099	U	0.0012	U	0.00089	U	0.0011	U	0.0011	U	0.0012	U	0.00093	U	0.0016	U	0.0011	U	0.0011	U	0.0011	U
Freon 113	76-13-1	mg/kg	NS	NS	NS	NS	0.25	U	0.0039	U	0.0059	U	0.25	U	0.0048	U	0.0056	U	0.005	U	0.0059	U	0.0045	U	0.0057	U	0.0054	U	0.0058	U	0.0046	U	0.0081	U	0.0053	U	0.0054	U	0.0053	U
Hexachlorobutadiene	87-68-3	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Isopropylbenzene	98-82-8	mg/kg	NS	NS	NS	NS	0.233		0.0016	U	0.0024	U	0.1	U	0.0019	U	0.0022	U	0.002	U	0.0024	U	0.0018	U	0.0023	U	0.0021	U	0.0023	U	0.0019	U	0.0032	U	0.0021	U	0.0021	U	0.0021	U
m,p-Xylene	179601-23-1	mg/kg	NS	NS	NS	NS	0.051	U	0.00078	U	0.0012	U	0.05	U	0.00096	U	0.0011	U	0.00099	U	0.0012	U	0.00089	U	0.0011	U	0.0011	U	0.0012	U	0.00093	U	0.0016	U	0.0011	U	0.0011	U	0.0011	U
Methyl Acetate	79-20-9	mg/kg	NS	NS	NS	NS	0.25	U	0.0039	U	0.0059	U	0.25	U	0.0048	U	0.0056	U	0.005	U	0.0059	U	0.0045	U	0.0057	U	0.0054	U	0.0058	U	0.0046	U	0.0081	U	0.0053	U	0.0054	U	0.0053	U
Methyl Tert Butyl Ether	1634-04-4	mg/kg	0.1	100	500	0.1	0.051	U	0.00078	U	0.0012	U	0.05	U	0.00096	U	0.0011	U	0.00099	U	0.0012	U	0.00089	U	0.0011	U	0.0011	U	0.0012	U	0.00093	U	0.0016	U	0.0011	U	0.0011	U	0.0011	U
Methylcyclohexane	108-87-2	mg/kg	NS	NS	NS	NS	0.0794	J	0.0016	U	0.0024	U	0.1	U	0.0019	U	0.0022	U	0.002	U	0.0024	U	0.0018	U	0.0023	U	0.0021	U	0.0023	U	0.0019	U	0.0032	U	0.0021	U	0.0021	U	0.0021	U
Methylene chloride	75-09-2	mg/kg	0.05	81	500	0.05	0.25	U	0.0039	U	0.0059	U	0.25	U	0.0048	U	0.0056	U	0.005	U	0.0059	U	0.0045	U	0.0057	U	0.0054	U	0.0058	U	0.0046	U	0.0081	U	0.0053	U	0.0054	U	0.0053	U
Naphthalene	91-20-3	mg/kg	12	100	500	12	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
n-Butylbenzene	104-51-8	mg/kg	18	100	500	18	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
n-Propylbenzene	103-65-1	mg/kg	5	100	500	5	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
o-Chlorotoluene	95-49-8	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
o-Xylene	95-47-6	mg/kg	NS	NS	NS	NS	0.051	U	0.00078	U	0.0012	U	0.05	U	0.00096	U	0.0011	U	0.00099	U	0.0012	U	0.00089	U	0.0011	U	0.0011	U	0.0012	U	0.00093	U	0.0016	U	0.0011	U	0.0011	U	0.0011	U
p-Chlorotoluene	106-43-4	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
p-Diethylbenzene	105-05-5	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
p-Ethyltoluene	622-96-8	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
p-Isopropyltoluene	99-87-6	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
sec-Butylbenzene	135-98-8	mg/kg	25	100	500	25	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Styrene	100-42-5	mg/kg	NS	NS	NS	NS	0.1	U	0.0016	U	0.0024	U	0.1	U	0.0019	U	0.0022	U	0.002	U	0.0024	U	0.0018	U	0.0023	U	0.0021	U	0.0023	U	0.0019	U	0.0032	U	0.0021	U	0.0021	U	0.0021	U
tert-Butylbenzene	98-06-6	mg/kg	11	100	500	11	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Tetrachloroethene	127-18-4	mg/kg	1.3	18	81	1.3	0.1	U	0.0016	U	0.0024	U	0.1	U	0.0019	U	0.0022	U	0.002	U	0.0024	U	0.0018	U	0.0023	U	0.0021	U	0.0023	U	0.0019	U	0.0032	U	0.0021	U	0.0021	U	0.0021	U
Toluene	108-88-3	mg/kg	0.7	100	500	0.7	0.051	U	0.00078	U	0.0012	U	0.05	U	0.00096	U	0.0011	U	0.00099	U	0.0012	U	0.00089	U	0.0011	U	0.0011	U	0.0012	U	0.00093	U	0.0016	U	0.0011	U	0.0011	U	0.0011	U
trans-1,2-Dichloroethene	156-60-5	mg/kg	0.19	100	500	0.19	0.051	U	0.00078	U	0.0012	U	0.05	U	0.00096	U	0.0011	U	0.00099	U	0.0012	U	0.00089	U	0.0011	U	0.0011	U	0.0012	U	0.00093	U	0.0016	U	0.0011	U	0.0011	U	0.0011	U
trans-1,3-Dichloropropene	10061-02-6	mg/kg	NS	NS	NS	NS	0.1	U	0.0016	U	0.0024	U	0.1	U	0.0019	U	0.0022	U	0.002	U	0.0024	U	0.0018	U	0.0023	U	0.0021	U	0.0023	U	0.0019	U	0.0032	U	0.0021	U	0.0021	U	0.0021	U
trans-1,4-Dichloro-2-butene	110-57-6	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Trichloroethene	79-01-6	mg/kg	0.47	6.4	54	0.47	0.051	U	0.00078	U	0.0012	U	0.05	U	0.00096	U	0.0011	U	0.00099	U	0.0012	U	0.00089	U	0.0011	U	0.0011	U	0.0012	U	0.00093	U	0.0016	U	0.0011	U	0.0011	U	0.0011	U
Trichlorofluoromethane	75-69-4	mg/kg	NS	NS	NS	NS	0.25	U	0.0039	U	0.0059	U	0.25	U	0.0048	U	0.0056	U	0.005	U	0.0059	U	0.0045	U	0.0057	U	0.0054	U	0.0058	U	0.0046	U	0.0081	U	0.0053	U	0.0054	U	0.0053	U
Vinyl acetate	108-05-4	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Vinyl chloride	75-01-4	mg/kg	0.03	0.48	7.1	0.03	0.1	U	0.0016	U	0.0024	U	0.1	U	0.0019	U	0.0022	U	0.002	U	0.0024	U	0.0018	U	0.0023	U	0.0021	U	0.0023	U	0.0019	U	0.0032	U	0.0021	U	0.0021	U	0.0021	U
Xylene (total)	1330-20-7	mg/kg	0.26	100	500	1.2	0.051	U	0.00078	U	0.0012	U	0.05	U	0.00096	U	0.0011	U	0.00099	U	0.0012	U	0.00089	U	0.0011	U	0.0011	U	0.0012	U	0.00093	U	0.0016	U	0.0011	U	0.0011	U	0.0011	U
Total TIC, Volatile	-	mg/kg	NS	NS	NS	NS	55.6	J	0		0		18.7	J	0		0		0		0		0		0		0		0		0		0		0		0		0	

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs
Concentration Exceeds NYSDEC RRUSCOs
Concentration Exceeds NYSDEC UUSCOs
Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

TABLE 5.1 A
SUMMARY OF SOIL SAMPLING RESULTS—VOCs

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-77(2.0-2.5)		SB-77(9.0-9.5)		SB-77(12.5-13)		SB-78(2.5-3.0)		SB-78(6.5-7.0)		SB-79(2.5-3)		SB-79(7.5-8.0)		SB-79(13.5-14.0)		SB-80(4.0-4.5)		SB-80(8.5-9.0)		SB-80(12-12.5)		SB-81(2.5-3.0)		SB-81(6.5-7.0)		SB-82(3.5-4.0)		SB-82(7.5-8.0)		SB-83(3-3.5)		SB-83(6-6.5)		SB-83(13.5-14)	
LAB SAMPLE ID:							JE18629-1		JE18629-2		JE18629-3		JE18375-6		JE18375-7		JE18629-7		JE18629-8		JE18629-9		JE18629-4		JE18629-5		JE18629-6		JE18698-1		JE18698-2		JE18698-3		JE18698-4		JE18698-5		JE18698-6		JE18698-7	
SAMPLE DATE:							9/8/2025		9/8/2025		9/8/2025		9/4/2025		9/4/2025		9/8/2025		9/8/2025		9/8/2025		9/8/2025		9/8/2025		9/8/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
VOCs (SW846 8260D)																																									
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
1,1,1-Trichloroethane	71-55-6	mg/kg	0.68	100	500	0.68	0.0024	U	0.0021	U	0.0022	U	0.0026	U	0.098	U	0.0026	U	0.0025	U	0.0025	U	0.0023	U	0.12	U	0.0019	U	0.0027	U	0.002	U	0.0019	U	0.0019	U	0.0021	U	0.0019	U	0.0022	U
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	NS	NS	NS	NS	0.0024	U	0.0021	U	0.0022	U	0.0026	U	0.098	U	0.0026	U	0.0025	U	0.0025	U	0.0023	U	0.12	U	0.0019	U	0.0027	U	0.002	U	0.0019	U	0.0019	U	0.0021	U	0.0019	U	0.0022	U
1,1,2-Trichloroethane	79-00-5	mg/kg	NS	NS	NS	NS	0.0024	U	0.0021	U	0.0022	U	0.0026	U	0.098	U	0.0026	U	0.0025	U	0.0025	U	0.0023	U	0.12	U	0.0019	U	0.0027	U	0.002	U	0.0019	U	0.0019	U	0.0021	U	0.0019	U	0.0022	U
1,1-Dichloroethane	75-34-3	mg/kg	0.27	47	240	0.27	0.0012	U	0.0011	U	0.0011	U	0.0013	U	0.049	U	0.0013	U	0.0012	U	0.0013	U	0.0011	U	0.062	U	0.00097	U	0.0014	U	0.001	U	0.00095	U	0.00093	U	0.001	U	0.00093	U	0.0011	U
1,1-Dichloroethene	75-35-4	mg/kg	0.24	0.98	5.1	0.33	0.0012	U	0.0011	U	0.0011	U	0.0013	U	0.049	U	0.0013	U	0.0012	U	0.0013	U	0.0011	U	0.062	U	0.00097	U	0.0014	U	0.001	U	0.00095	U	0.00093	U	0.001	U	0.00093	U	0.0011	U
1,1-Dichloropropene	563-58-6	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
1,2,3-Trichlorobenzene	87-61-6	mg/kg	NS	NS	NS	NS	0.006	U	0.0053	U	0.0055	U	0.0066	U	0.25	U	0.0065	U	0.0062	U	0.0063	U	0.0057	U	0.31	U	0.0049	U	0.0068	U	0.0051	U	0.0047	U	0.0046	U	0.0052	U	0.0046	U	0.0055	U
1,2,3-Trichloropropane	96-18-4	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
1,2,4,5-Tetramethylbenzene	95-93-2	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
1,2,4-Trichlorobenzene	120-82-1	mg/kg	NS	NS	NS	NS	0.006	U	0.0053	U	0.0055	U	0.0066	U	0.25	U	0.0065	U	0.0062	U	0.0063	U	0.0057	U	0.31	U	0.0049	U	0.0068	U	0.0051	U	0.0047	U	0.0046	U	0.0052	U	0.0046	U	0.0055	U
1,2,4-Trimethylbenzene	95-63-6	mg/kg	5.9	100	500	5.9	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	NS	NS	NS	NS	0.0024	U	0.0021	U	0.0022	U	0.0026	U	0.098	U	0.0026	U	0.0025	U	0.0025	U	0.0023	U	0.12	U	0.0019	U	0.0027	U	0.002	U	0.0019	U	0.0019	U	0.0021	U	0.0019	U	0.0022	U
1,2-Dibromoethane	106-93-4	mg/kg	NS	NS	NS	NS	0.0012	U	0.0011	U	0.0011	U	0.0013	U	0.049	U	0.0013	U	0.0012	U	0.0013	U	0.0011	U	0.062	U	0.00097	U	0.0014	U	0.001	U	0.00095	U	0.00093	U	0.001	U	0.00093	U	0.0011	U
1,2-Dichlorobenzene	95-50-1	mg/kg	1.1	100	500	1.1	0.0012	U	0.0011	U	0.0011	U	0.0013	U	0.049	U	0.0013	U	0.0012	U	0.0013	U	0.0011	U	0.062	U	0.00097	U	0.0014	U	0.001	U	0.00095	U	0.00093	U	0.001	U	0.00093	U	0.0011	U
1,2-Dichloroethane	107-06-2	mg/kg	0.02	5.8	30	0.02	0.0012	U	0.0011	U	0.0011	U	0.0013	U	0.049	U	0.0013	U	0.0012	U	0.0013	U	0.0011	U	0.062	U	0.00097	U	0.0014	U	0.001	U	0.00095	U	0.00093	U	0.001	U	0.00093	U	0.0011	U
1,2-Dichloroethene, Total	540-59-0	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
1,2-Dichloropropane	78-87-5	mg/kg	NS	NS	NS	NS	0.0024	U	0.0021	U	0.0022	U	0.0026	U	0.098	U	0.0026	U	0.0025	U	0.0025	U	0.0023	U	0.12	U	0.0019	U	0.0027	U	0.002	U	0.0019	U	0.0019	U	0.0021	U	0.0019	U	0.0022	U
1,3,5-Trimethylbenzene	108-67-8	mg/kg	3.1	100	500	3.1	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
1,3-Dichlorobenzene	541-73-1	mg/kg	2.6	38	280	2.6	0.0012	U	0.0011	U	0.0011	U	0.0013	U	0.049	U	0.0013	U	0.0012	U	0.0013	U	0.0011	U	0.062	U	0.00097	U	0.0014	U	0.001	U	0.00095	U	0.00093	U	0.001	U	0.00093	U	0.0011	U
1,3-Dichloropropane	142-28-9	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
1,3-Dichloropropene, Total	542-75-6	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
1,4-Dichlorobenzene	106-46-7	mg/kg	1.8	24	130	1.8	0.0012	U	0.0011	U	0.0011	U	0.0013	U	0.049	U	0.0013	U	0.0012	U	0.0013	U	0.0011	U	0.062	U	0.00097	U	0.0014	U	0.001	U	0.00095	U	0.00093	U	0.001	U	0.00093	U	0.0011	U
1,4-Dioxane	123-91-1	mg/kg	0.1	5.7	36	0.1	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
2,2-Dichloropropane	594-20-7	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
2-Butanone (MEK)	78-93-3	mg/kg	0.1	100	500	0.1	0.012	U	0.011	U	0.011	U	0.013	U	0.49	U	0.013	U	0.012	U	0.013	U	0.0108	J	0.62	U	0.0028	J	0.014	U	0.01	U	0.0095	U	0.0025	J	0.01	U	0.0093	U	0.011	U
2-Hexanone	591-78-6	mg/kg	NS	NS	NS	NS	0.006	U	0.0053	U	0.0055	U	0.0066	U	0.25	U	0.0065	U	0.0062	U	0.0063	U	0.0057	U	0.31	U	0.0049	U	0.0068	U	0.0051	U	0.0047	U	0.0046	U	0.0052	U	0.0046	U	0.0055	U
4-Methyl-2-pentanone(MIBK)	108-10-1	mg/kg	NS	NS	NS	NS	0.006	U	0.0053	U	0.0055	U	0.0066	U	0.25	U	0.0065	U	0.0062	U	0.0063	U	0.0057	U	0.31	U	0.0049	U	0.0068	U	0.0051	U	0.0047	U	0.0046	U	0.0052	U	0.0046	U	0.0055	U
Acetone	67-64-1	mg/kg	0.03	100	500	0.03	0.024		0.07	J	0.0079	J	0.013	U	0.49	U	0.013	U	0.0055	J	0.0189	J	0.102		0.62	U	0.0196		0.014	U	0.0078	J	0.0044	J	0.0196		0.01	U	0.0093	U	0.005	J
Acrylonitrile	107-13-1	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Benzene	71-43-2	mg/kg	0.06	3.7	20	0.06	0.0006	U	0.00053	U	0.00055	U	0.00066	U	0.025	U	0.00065	U	0.00062	U	0.00063	U	0.00057	U	0.031	U	0.00049	U	0.00068	U	0.00051	U	0.00047	U	0.00046	U	0.00052	U	0.00046	U	0.00055	U
Bromobenzene	108-86-1	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Bromochloromethane	74-97-5	mg/kg	NS	NS	NS	NS	0.006	U	0.0053	U	0.0055	U	0.0066	U	0.25	U	0.0065	U	0.0062	U	0.0063	U	0.0057	U	0.31	U	0.0049	U	0.0068	U	0.0051	U	0.0047	U	0.0046	U	0.0052	U	0.0046	U	0.0055	U
Bromodichloromethane	75-27-4	mg/kg	NS	NS	NS	NS	0.0024	U	0.0021	U	0.0022	U	0.0026	U	0.098	U	0.0026	U	0.0025	U	0.0025	U	0.0023	U	0.12	U	0.0019	U	0.0027	U	0.002	U	0.0019	U	0.0019	U	0.0021	U	0.0019	U	0.0022	U
Bromoform	75-25-2	mg/kg	NS	NS	NS	NS	0.006	U	0.0053	U	0.0055	U	0.0066	U	0.25	U	0.0065	U	0.0062	U	0.0063	U	0.0057	U	0.31	U	0.0049	U	0.0068	U	0.0051	U	0.0047	U	0.0046	U	0.0052	U	0.0046	U	0.0055	U
Bromomethane	74-83-9	mg/kg	NS	NS	NS	NS	0.006	U	0.0053	U	0.0055	U	0.0066	U	0.25	U	0.0065	U	0.0062	U	0.0063	U	0.0057	U	0.31	U	0.0049	U	0.0068	U	0.0051	U	0.0047	U	0.0046	U	0.0052	U	0.0046	U	0.0055	U
Carbon disulfide	75-15-0	mg/kg	NS	NS	NS	NS	0.0024	U	0.0012	J	0.00086	J	0.0026	U	0.098	U	0.0026	U	0.0025	U	0.001	J	0.0023	U	0.12	U	0.0019	U	0.0027	U	0.00095	J	0.0019	U	0.0019	U	0.0021	U	0.0019	U	0.0022	U
Carbon tetrachloride	56-23-5	mg/kg	0.76	7.1	41	0.76	0.0024	U	0.0021	U	0.0022	U	0.0026	U	0.098	U	0.0026	U	0.0025	U	0.0025	U	0.0023	U	0.12	U	0.0019	U	0.0027	U	0.002	U	0.0019	U	0.0019	U	0.0021	U	0.0019	U	0.0022	U
Chlorobenzene	108-90-7	mg/kg	4.5	100	500	4.5	0.0024	U	0.0021	U	0.0022	U	0.0026	U	0.098	U	0.0026	U	0.0025	U	0.0025	U	0.0023	U	0.12	U	0.0019	U	0.0027	U	0.002	U	0.0019	U	0.0019	U	0.0021	U	0.0019	U	0.0022	U
Chloroethane	75-00-3	mg/kg	NS	NS	NS	NS	0.006	U	0.0053	U	0.0055	U	0.0066	U	0.25	U	0.0065	U	0.0062	U	0.0063	U	0.0057	U	0.31	U	0.0049	U	0.0068	U	0.0051	U	0.0047	U	0.0046	U	0.0052	U	0.0046	U	0.0055	U
Chloroform	67-66-3	mg/kg	0.37	24	180	0.37	0.0024	U	0.0021	U	0.0022	U	0.0026	U	0.098	U	0.0026	U	0.0025	U	0.0025	U	0.0023	U	0.12	U	0.0019	U	0.0027	U	0.002	U	0.0019	U	0.0019	U	0.0021	U	0.0019	U	0.0022	U
Chloromethane	74-87-3	mg/kg	NS	NS	NS	NS	0.006	U	0.0053	U	0.0055	U	0.0066	U	0.25	U	0.0065	U	0.0062	U	0.0063	U	0.0057	U	0.31	U	0.0049	U	0.0068	U	0.0051	U	0.0047	U	0.0046	U	0.0052	U	0.0046	U	0.0055	U
cis-1,2-Dichloroethene	156-59-2	mg/kg	0.19	41	500	0.19	0.0012	U	0.0011	U	0.0011	U	0.0013	U	0.049	U	0.0013	U	0.0012	U	0.0013	U	0.0011	U	0.062	U	0.00097	U	0.0014	U	0.001	U	0.00095	U	0.00093	U	0.001	U	0.00093	U	0.0011	U
cis-1,3-Dichloropropene	10061-01-5	mg/kg	NS	NS	NS	NS	0.0024	U	0.0021	U	0.0022	U	0.0026	U	0.098	U	0.0026	U	0.0025	U	0.0025	U	0.0023	U	0.12	U	0.0019	U	0.0027	U	0.002	U	0.0019	U	0.0019	U	0.0021	U	0.0019	U	0.0022	U
Cyclohexane	110-82-7	mg/kg	NS	NS	NS	NS	0.0024	U	0.0046		0.0022	U	0.0026	U	0.098	U	0.0026	U	0.0025	U	0.0021	J	0.0023	U	0.12	U	0.0019	U	0.0027	U	0.002	U	0.0019	U	0.0019	U	0.0021	U	0.0019	U	0.0022	U
Dibromochloromethane	124-48-1	mg/kg	NS	NS	NS	NS	0.0024	U	0.0021	U	0.0022	U	0.0026	U	0.098	U	0.0026	U	0.0025	U	0.0025	U	0.0023	U	0.12	U	0.0019	U	0.0027	U	0.002	U	0.0019	U	0.0019	U	0.0021	U	0.0019	U	0.0022	U
Dibromomethane	74-95-3	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Dichlorodifluoromethane	75-71-8	mg/kg	NS	NS	NS	NS	0.006	U	0.0053	U	0.0055	U	0.0066	U	0.25	U	0.0065	U	0.0062	U	0.0063	U	0.0057	U	0.31	U	0.0049	U	0.0068	U	0.0051	U	0.0047	U	0.0046	U	0.0052	U	0.0046	U	0.0055	U
Ethyl ether	60-29-7	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Ethylbenzene	100-41-4	mg/kg	1	76	390	1	0.0012	U	0.114		0.0118		0.0013	U	0.1		0.0013	U	0.0015		0.00085	J	0.0053		0.368		0.0028		0.0014	U	0.001	U	0.00095	U	0.00093	U	0.001	U	0.00093	U	0.0011	U
Freon 113	76-13-1	mg/kg	NS	NS	NS	NS	0.006	U	0.0053	U	0.0055	U	0.0066	U	0.25	U	0.0065	U	0.0062	U	0.0063	U	0.0057	U	0.31	U	0.0049	U	0.0068	U	0.0051	U	0.0047	U	0.0046	U	0.0052	U	0.0046	U	0.0055	U
Hexachlorobutadiene	87-68-3	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Isopropylbenzene	98-82-8	mg/kg	NS	NS	NS	NS	0.0024	U	0.111		0.0048		0.0026	U	0.126		0.0026	U	0.0025	U	0.0065		0.0023	U	0.181		0.0047		0.0027	U	0.002	U	0.0019	U	0.0019	U	0.0021	U	0.0019	U	0.0022	U
m,p-Xylene	179601-23-1	mg/kg	NS	NS	NS	NS	0.0012	U	6.9		0.0346		0.0013	U	0.049	U	0.0013	U	0.0018		0.0012	J	0.0011	U	0.708		0.0027		0.0014	U	0.001	U	0.00095	U	0.00093	U	0.001	U	0.00093	U	0.0011	U
Methyl Acetate	79-20-9	mg/kg	NS	NS	NS	NS	0.006	U	0.0053	U	0.0055	U	0.0066	U	0.25	U	0.0065	U	0.0062	U	0.0063	U	0.0057	U	0.31	U	0.0049	U	0.0068	U	0.0051	U	0.0047	U	0.0046	U	0.0052	U	0.0046	U	0.0055	U
Methyl Tert Butyl Ether	1634-04-4	mg/kg	0.1	100	500	0.1	0.0012	U	0.0011	U	0.0011	U	0.0013	U	0.049	U	0.0013	U	0.0012	U	0.0013	U	0.0011	U	0.062	U	0.00097	U	0.0014	U	0.001	U	0.00095	U	0.00093	U	0.001	U	0.00093	U	0.0011	U
Methylcyclohexane	108-87-2	mg/kg	NS	NS	NS	NS	0.0024	U	0.0175		0.0141		0.0026	U	0.098	U	0.0026	U	0.0025	U	0.0036		0.0023	U	0.814		0.0235		0.0027	U	0.002	U	0.0019	U	0.0019	U	0.0021	U	0.0019	U	0.0022	U
Methylene chloride	75-09-2	mg/kg	0.05	81	500	0.05	0.006	U	0.0053	U	0.0055	U	0.0066	U	0.25	U	0.0065	U	0.0062	U	0.0063	U	0.0057	U	0.31	U	0.0049	U	0.0068	U	0.0029	J	0.0029	J	0.0046	U	0.0052	U	0.0025	J	0.0055	U
Naphthalene	91-20-3	mg/kg	12	100	500	12	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
n-Butylbenzene	104-51-8	mg/kg	18	100	500	18	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
n-Propylbenzene	103-65-1	mg/kg	5	100	500	5	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
o-Chlorotoluene	95-49-8	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
o-Xylene	95-47-6	mg/kg	NS	NS	NS	NS	0.0012	U	0.136		0.0047		0.0013	U	0.049	U	0.0013	U	0.0012	U	0.0013	U	0.0011	U	0.155		0.00097	U	0.0014	U	0.001	U	0.00095	U	0.00093	U	0.001	U	0.00093	U	0.0011	U
p-Chlorotoluene	106-43-4	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
p-Diethylbenzene	105-05-5	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
p-Ethyltoluene	622-96-8	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
p-Isopropyltoluene	99-87-6	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
sec-Butylbenzene	135-98-8	mg/kg	25	100	500	25	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Styrene	100-42-5	mg/kg	NS	NS	NS	NS	0.0024	U	0.0021	U	0.0022	U	0.0026	U	0.098	U	0.0026	U	0.0025	U	0.0025	U	0.0023	U	0.12	U	0.0019	U	0.0027	U	0.002	U	0.0019	U	0.0019	U	0.0021	U	0.0019	U	0.0022	U
tert-Butylbenzene	98-06-6	mg/kg	11	100	500	11	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Tetrachloroethene	127-18-4	mg/kg	1.3	18	81	1.3	0.0024	U	0.0021	U	0.0022	U	0.0026	U	0.098	U	0.0026	U	0.0025	U	0.0025	U	0.0023	U	0.12	U	0.0019	U	0.0027	U	0.002	U	0.0019	U	0.0019	U	0.0021	U	0.0019	U	0.0022	U
Toluene	108-88-3	mg/kg	0.7	100	500	0.7	0.0012	U	0.0011	U	0.0011	U	0.0013	U	0.049	U	0.0013	U	0.0012	U	0.0013	U	0.0011	U	0.062	U	0.00097	U	0.0014	U	0.001	U	0.00095	U	0.00093	U	0.001	U	0.00093	U	0.0011	U
trans-1,2-Dichloroethene	156-60-5	mg/kg	0.19	100	500	0.19	0.0012	U	0.0011	U	0.0011	U	0.0013	U	0.049	U	0.0013	U	0.0012	U	0.0013	U	0.0011	U	0.062	U	0.00097	U	0.0014	U	0.001	U	0.00095	U	0.00093	U	0.001	U	0.00093	U	0.0011	U
trans-1,3-Dichloropropene	10061-02-6	mg/kg	NS	NS	NS	NS	0.0024	U	0.0021	U	0.0022	U	0.0026	U	0.098	U	0.0026	U	0.0025	U	0.0025	U	0.0023	U	0.12	U	0.0019	U	0.0027	U	0.002	U	0.0019	U	0.0019	U	0.0021	U	0.0019	U	0.0022	U
trans-1,4-Dichloro-2-butene	110-57-6	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Trichloroethene	79-01-6	mg/kg	0.47	6.4	54	0.47	0.0012	U	0.0011	U	0.0011	U	0.0013	U	0.049	U	0.0013	U	0.0012	U	0.0013	U	0.0011	U	0.062	U	0.00097	U	0.0014	U	0.001	U	0.00095	U	0.00093	U	0.001	U	0.00093	U	0.0011	U
Trichlorofluoromethane	75-69-4	mg/kg	NS	NS	NS	NS	0.006	U	0.0053	U	0.0055	U	0.0066	U	0.25	U	0.0065	U	0.0062	U	0.0063	U	0.0057	U	0.31	U	0.0049	U	0.0068	U	0.0051	U	0.0047	U	0.0046	U	0.0052	U	0.0046	U	0.0055	U
Vinyl acetate	108-05-4	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Vinyl chloride	75-01-4	mg/kg	0.03	0.48	7.1	0.03	0.0024	U	0.0021	U	0.0022	U	0.0026	U	0.098	U	0.0026	U	0.0025	U	0.0025	U	0.0023	U	0.12	U	0.0019	U	0.0027	U	0.002	U	0.0019	U	0.0019	U	0.0021	U	0.0019	U	0.0022	U
Xylene (total)	1330-20-7	mg/kg	0.26	100	500	1.2	0.0012	U	7.04		0.0393		0.0013	U	0.049	U	0.0013	U	0.0018		0.0012	J	0.0011	U	0.863		0.0027		0.0014	U	0.00066	J	0.00095	U	0.00093	U	0.001	U	0.00093	U	0.0011	U
Total TIC, Volatile	-	mg/kg	NS	NS	NS	NS	0.031	J	0.597	J	1.062	J	0		154.9	J	0		0.028	J	0.422	J	0.035	J	48.9	J	2.734	J	0		0.3243	J	0		0		0		0		0	

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs

Concentration Exceeds NYSDEC RRUSCOs

Concentration Exceeds NYSDEC UUSCOs

Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

TABLE 5.1 A
SUMMARY OF SOIL SAMPLING RESULTS—VOCs

SAMPLE ID:							SB-84(2.5-3.0)		SB-84(8-8.5)		SB-84(12.5-13.0)		SB-85(4.5-5.0)		SB-85(7-7.5)		SB-85(11-11.5)		SB-85(16.5-17.0)		SB-86(4-4.5)		SB-86(6.5-7.0)		SB-87(3-3.5)		SB-87(6-6.5)		SB-87(14-14.5)		SB-88(4.5-5.0)		SB-88(6.5-7.0)		SB-88(13.5-14.0)	
LAB SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	JE18698-8		JE18698-9		JE18698-10		JE18698-11		JE18698-12		JE18698-13		JE18698-14		JE18698-15		JE18698-16		JE18698-17		JE18698-18		JE18698-19		JE18798-2		JE18798-3		JE18798-4	
SAMPLE DATE:							9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/10/2025		9/10/2025		9/10/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
VOCs (SW846 8260D)																																				
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
1,1,1-Trichloroethane	71-55-6	mg/kg	0.68	100	500	0.68	0.002	U	0.0019	U	0.0022	U	0.0024	U	0.0019	U	0.0021	U	0.0019	U	0.0019	U	0.002	U	0.0019	U	0.0019	U	0.002	U	0.0021	U	0.0019	U	0.0035	U
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	NS	NS	NS	NS	0.002	U	0.0019	U	0.0022	U	0.0024	U	0.0019	U	0.0021	U	0.0019	U	0.0019	U	0.002	U	0.0019	U	0.0019	U	0.002	U	0.0021	U	0.0019	U	0.0035	U
1,1,2-Trichloroethane	79-00-5	mg/kg	NS	NS	NS	NS	0.002	U	0.0019	U	0.0022	U	0.0024	U	0.0019	U	0.0021	U	0.0019	U	0.0019	U	0.002	U	0.0019	U	0.0019	U	0.002	U	0.0021	U	0.0019	U	0.0035	U
1,1-Dichloroethane	75-34-3	mg/kg	0.27	47	240	0.27	0.001	U	0.00095	U	0.0011	U	0.0012	U	0.00097	U	0.001	U	0.00094	U	0.00093	U	0.00099	U	0.00096	U	0.00093	U	0.00098	U	0.001	U	0.00094	U	0.0018	U
1,1-Dichloroethene	75-35-4	mg/kg	0.24	0.98	5.1	0.33	0.001	U	0.00095	U	0.0011	U	0.0012	U	0.00097	U	0.001	U	0.00094	U	0.00093	U	0.00099	U	0.00096	U	0.00093	U	0.00098	U	0.001	U	0.00094	U	0.0018	U
1,1-Dichloropropene	563-58-6	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
1,2,3-Trichlorobenzene	87-61-6	mg/kg	NS	NS	NS	NS	0.0051	U	0.0048	U	0.0054	U	0.0061	U	0.0049	U	0.0052	U	0.0047	U	0.0046	U	0.005	U	0.0048	U	0.0046	U	0.0049	U	0.0052	U	0.0047	U	0.0088	U
1,2,3-Trichloropropane	96-18-4	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
1,2,4,5-Tetramethylbenzene	95-93-2	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
1,2,4-Trichlorobenzene	120-82-1	mg/kg	NS	NS	NS	NS	0.0051	U	0.0048	U	0.0054	U	0.0061	U	0.0049	U	0.0052	U	0.0047	U	0.0046	U	0.005	U	0.0048	U	0.0046	U	0.0049	U	0.0052	U	0.0047	U	0.0088	U
1,2,4-Trimethylbenzene	95-63-6	mg/kg	5.9	100	500	5.9	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	NS	NS	NS	NS	0.002	U	0.0019	U	0.0022	U	0.0024	U	0.0019	U	0.0021	U	0.0019	U	0.0019	U	0.002	U	0.0019	U	0.0019	U	0.002	U	0.0021	U	0.0019	U	0.0035	U
1,2-Dibromoethane	106-93-4	mg/kg	NS	NS	NS	NS	0.001	U	0.00095	U	0.0011	U	0.0012	U	0.00097	U	0.001	U	0.00094	U	0.00093	U	0.00099	U	0.00096	U	0.00093	U	0.00098	U	0.001	U	0.00094	U	0.0018	U
1,2-Dichlorobenzene	95-50-1	mg/kg	1.1	100	500	1.1	0.001	U	0.00095	U	0.0011	U	0.0012	U	0.00097	U	0.001	U	0.00094	U	0.00093	U	0.00099	U	0.00096	U	0.00093	U	0.00098	U	0.001	U	0.00094	U	0.0018	U
1,2-Dichloroethane	107-06-2	mg/kg	0.02	5.8	30	0.02	0.001	U	0.00095	U	0.0011	U	0.0012	U	0.00097	U	0.001	U	0.00094	U	0.00093	U	0.00099	U	0.00096	U	0.00093	U	0.00098	U	0.001	U	0.00094	U	0.0018	U
1,2-Dichloroethene, Total	540-59-0	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
1,2-Dichloropropane	78-87-5	mg/kg	NS	NS	NS	NS	0.002	U	0.0019	U	0.0022	U	0.0024	U	0.0019	U	0.0021	U	0.0019	U	0.0019	U	0.002	U	0.0019	U	0.0019	U	0.002	U	0.0021	U	0.0019	U	0.0035	U
1,3,5-Trimethylbenzene	108-67-8	mg/kg	3.1	100	500	3.1	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
1,3-Dichlorobenzene	541-73-1	mg/kg	2.6	38	280	2.6	0.001	U	0.00095	U	0.0011	U	0.0012	U	0.00097	U	0.001	U	0.00094	U	0.00093	U	0.00099	U	0.00096	U	0.00093	U	0.00098	U	0.001	U	0.00094	U	0.0018	U
1,3-Dichloropropane	142-28-9	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
1,3-Dichloropropene, Total	542-75-6	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
1,4-Dichlorobenzene	106-46-7	mg/kg	1.8	24	130	1.8	0.001	U	0.00095	U	0.0011	U	0.0012	U	0.00097	U	0.001	U	0.00094	U	0.00093	U	0.00099	U	0.00096	U	0.00093	U	0.00098	U	0.001	U	0.00094	U	0.0018	U
1,4-Dioxane	123-91-1	mg/kg	0.1	5.7	36	0.1	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
2,2-Dichloropropane	594-20-7	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
2-Butanone (MEK)	78-93-3	mg/kg	0.1	100	500	0.1	0.01	U	0.0095	U	0.011	U	0.012	U	0.0097	U	0.01	U	0.0094	U	0.0093	U	0.0099	U	0.0096	U	0.0093	U	0.0098	U	0.01	U	0.0094	U	0.018	U
2-Hexanone	591-78-6	mg/kg	NS	NS	NS	NS	0.0051	U	0.0048	U	0.0054	U	0.0061	U	0.0049	U	0.0052	U	0.0047	U	0.0046	U	0.005	U	0.0048	U	0.0046	U	0.0049	U	0.0052	U	0.0047	U	0.0088	U
4-Methyl-2-pentanone(MIBK)	108-10-1	mg/kg	NS	NS	NS	NS	0.0051	U	0.0048	U	0.0054	U	0.0061	U	0.0049	U	0.0052	U	0.0047	U	0.0046	U	0.005	U	0.0048	U	0.0046	U	0.0049	U	0.0052	U	0.0047	U	0.0088	U
Acetone	67-64-1	mg/kg	0.03	100	500	0.03	0.01	U	0.004	J	0.011	U	0.012	U	0.0064	J	0.0046	J	0.0048	J	0.006	J	0.0059	J	0.0062	J	0.0089	J	0.0058	J	0.007	J	0.0094	U	0.0081	J
Acrylonitrile	107-13-1	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Benzene	71-43-2	mg/kg	0.06	3.7	20	0.06	0.00051	U	0.00048	U	0.00054	U	0.00061	U	0.00049	U	0.00052	U	0.00047	U	0.00046	U	0.0005	U	0.00048	U	0.00046	U	0.00049	U	0.00052	U	0.00047	U	0.00088	U
Bromobenzene	108-86-1	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Bromochloromethane	74-97-5	mg/kg	NS	NS	NS	NS	0.0051	U	0.0048	U	0.0054	U	0.0061	U	0.0049	U	0.0052	U	0.0047	U	0.0046	U	0.005	U	0.0048	U	0.0046	U	0.0049	U	0.0052	U	0.0047	U	0.0088	U
Bromodichloromethane	75-27-4	mg/kg	NS	NS	NS	NS	0.002	U	0.0019	U	0.0022	U	0.0024	U	0.0019	U	0.0021	U	0.0019	U	0.0019	U	0.002	U	0.0019	U	0.0019	U	0.002	U	0.0021	U	0.0019	U	0.0035	U
Bromoform	75-25-2	mg/kg	NS	NS	NS	NS	0.0051	U	0.0048	U	0.0054	U	0.0061	U	0.0049	U	0.0052	U	0.0047	U	0.0046	U	0.005	U	0.0048	U	0.0046	U	0.0049	U	0.0052	U	0.0047	U	0.0088	U
Bromomethane	74-83-9	mg/kg	NS	NS	NS	NS	0.0051	U	0.0048	U	0.0054	U	0.0061	U	0.0049	U	0.0052	U	0.0047	U	0.0046	U	0.005	U	0.0048	U	0.0046	U	0.0049	U	0.0052	U	0.0047	U	0.0088	U
Carbon disulfide	75-15-0	mg/kg	NS	NS	NS	NS	0.002	U	0.0019	U	0.0022	U	0.0024	U	0.0019	U	0.0021	U	0.0019	U	0.0019	U	0.002	U	0.0019	U	0.0019	U	0.002	U	0.0021	U	0.0019	U	0.0035	U
Carbon tetrachloride	56-23-5	mg/kg	0.76	7.1	41	0.76	0.002	U	0.0019	U	0.0022	U	0.0024	U	0.0019	U	0.0021	U	0.0019	U	0.0019	U	0.002	U	0.0019	U	0.0019	U	0.002	U	0.0021	U	0.0019	U	0.0035	U
Chlorobenzene	108-90-7	mg/kg	4.5	100	500	4.5	0.002	U	0.0019	U	0.0022	U	0.0024	U	0.0019	U	0.0021	U	0.0019	U	0.0019	U	0.002	U	0.0019	U	0.0019	U	0.002	U	0.0021	U	0.0019	U	0.0035	U
Chloroethane	75-00-3	mg/kg	NS	NS	NS	NS	0.0051	U	0.0048	U	0.0054	U	0.0061	U	0.0049	U	0.0052	U	0.0047	U	0.0046	U	0.005	U	0.0048	U	0.0046	U	0.0049	U	0.0052	U	0.0047	U	0.0088	U
Chloroform	67-66-3	mg/kg	0.37	24	180	0.37	0.002	U	0.0019	U	0.0022	U	0.0024	U	0.0019	U	0.0021	U	0.0019	U	0.0019	U	0.002	U	0.0019	U	0.0019	U	0.002	U	0.0021	U	0.0019	U	0.0035	U
Chloromethane	74-87-3	mg/kg	NS	NS	NS	NS	0.0051	U	0.0048	U	0.0054	U	0.0061	U	0.0049	U	0.0052	U	0.0047	U	0.0046	U	0.005	U	0.0048	U	0.0046	U	0.0049	U	0.0052	U	0.0047	U	0.0088	U
cis-1,2-Dichloroethene	156-59-2	mg/kg	0.19	41	500	0.19	0.001	U	0.00095	U	0.0011	U	0.0012	U	0.00097	U	0.001	U	0.00094	U	0.00093	U	0.00099	U	0.00096	U	0.00093	U	0.00098	U	0.001	U	0.00094	U	0.0018	U
cis-1,3-Dichloropropene	10061-01-5	mg/kg	NS	NS	NS	NS	0.002	U	0.0019	U	0.0022	U	0.0024	U	0.0019	U	0.0021	U	0.0019	U	0.0019	U	0.002	U	0.0019	U	0.0019	U	0.002	U	0.0021	U	0.0019	U	0.0035	U
Cyclohexane	110-82-7	mg/kg	NS	NS	NS	NS	0.002	U	0.0019	U	0.0022	U	0.0024	U	0.0019	U	0.0021	U	0.0019	U	0.0019	U	0.002	U	0.0019	U	0.0019	U	0.002	U	0.0021	U	0.0019	U	0.0035	U
Dibromochloromethane	124-48-1	mg/kg	NS	NS	NS	NS	0.002	U	0.0019	U	0.0022	U	0.0024	U	0.0019	U	0.0021	U	0.0019	U	0.0019	U	0.002	U	0.0019	U	0.0019	U	0.002	U	0.0021	U	0.0019	U	0.0035	U
Dibromomethane	74-95-3	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Dichlorodifluoromethane	75-71-8	mg/kg	NS	NS	NS	NS	0.0051	U	0.0048	U	0.0054	U	0.0061	U	0.0049	U	0.0052	U	0.0047	U	0.0046	U	0.005	U	0.0048	U	0.0046	U	0.0049	U	0.0052	U	0.0047	U	0.0088	U
Ethyl ether	60-29-7	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Ethylbenzene	100-41-4	mg/kg	1	76	390	1	0.001	U	0.00095	U	0.0011	U	0.0012	U	0.00097	U	0.001	U	0.00094	U	0.00093	U	0.00099	U	0.00096	U	0.00093	U	0.00098	U	0.001	U	0.00094	U	0.0018	U
Freon 113	76-13-1	mg/kg	NS	NS	NS	NS	0.0051	U	0.0048	U	0.0054	U	0.0061	U	0.0049	U	0.0052	U	0.0047	U	0.0046	U	0.005	U	0.0048	U	0.0046	U	0.0049	U	0.0052	U	0.0047	U	0.0088	U
Hexachlorobutadiene	87-68-3	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Isopropylbenzene	98-82-8	mg/kg	NS	NS	NS	NS	0.002	U	0.0019	U	0.0022	U	0.0024	U	0.0019	U	0.0021	U	0.0019	U	0.0019	U	0.002	U	0.0019	U	0.0019	U	0.002	U	0.0021	U	0.0019	U	0.0035	U
m,p-Xylene	179601-23-1	mg/kg	NS	NS	NS	NS	0.001	U	0.00095	U	0.0011	U	0.0012	U	0.00097	U	0.001	U	0.00094	U	0.00093	U	0.00099	U	0.00096	U	0.00093	U	0.00098	U	0.001	U	0.00094	U	0.0018	U
Methyl Acetate	79-20-9	mg/kg	NS	NS	NS	NS	0.0051	U	0.0048	U	0.0054	U	0.0061	U	0.0049	U	0.0052	U	0.0047	U	0.0046	U	0.005	U	0.0048	U	0.0046	U	0.0049	U	0.0052	U	0.0047	U	0.0088	U
Methyl Tert Butyl Ether	1634-04-4	mg/kg	0.1	100	500	0.1	0.001	U	0.00095	U	0.0011	U	0.0012	U	0.00097	U	0.001	U	0.00094	U	0.00093	U	0.00099	U	0.00096	U	0.00093	U	0.00098	U	0.001	U	0.00094	U	0.0018	U
Methylcyclohexane	108-87-2	mg/kg	NS	NS	NS	NS	0.002	U	0.0019	U	0.0022	U	0.0024	U	0.0019	U	0.0021	U	0.0019	U	0.0019	U	0.002	U	0.0019	U	0.0019	U	0.002	U	0.0021	U	0.0019	U	0.0035	U
Methylene chloride	75-09-2	mg/kg	0.05	81	500	0.05	0.0051	U	0.0032	J	0.0054	U	0.0039	J	0.0049	U	0.0028	J	0.0029	J	0.0025	J	0.0039	J	0.0048	U	0.0028	J	0.0031	J	0.0032	J	0.003	J	0.0053	J
Naphthalene	91-20-3	mg/kg	12	100	500	12	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
n-Butylbenzene	104-51-8	mg/kg	18	100	500	18	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
n-Propylbenzene	103-65-1	mg/kg	5	100	500	5	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
o-Chlorotoluene	95-49-8	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
o-Xylene	95-47-6	mg/kg	NS	NS	NS	NS	0.001	U	0.00095	U	0.0011	U	0.0012	U	0.00097	U	0.001	U	0.00094	U	0.00093	U	0.00099	U	0.00096	U	0.00093	U	0.00098	U	0.001	U	0.00094	U	0.0018	U
p-Chlorotoluene	106-43-4	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
p-Diethylbenzene	105-05-5	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
p-Ethyltoluene	622-96-8	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
p-Isopropyltoluene	99-87-6	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
sec-Butylbenzene	135-98-8	mg/kg	25	100	500	25	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Styrene	100-42-5	mg/kg	NS	NS	NS	NS	0.002	U	0.0019	U	0.0022	U	0.0024	U	0.0019	U	0.0021	U	0.0019	U	0.0019	U	0.002	U	0.0019	U	0.0019	U	0.002	U	0.0021	U	0.0019	U	0.0035	U
tert-Butylbenzene	98-06-6	mg/kg	11	100	500	11	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Tetrachloroethene	127-18-4	mg/kg	1.3	18	81	1.3	0.002	U	0.0019	U	0.0022	U	0.0024	U	0.0019	U	0.0021	U	0.0019	U	0.0019	U	0.002	U	0.0019	U	0.0019	U	0.002	U	0.0021	U	0.0019	U	0.0035	U
Toluene	108-88-3	mg/kg	0.7	100	500	0.7	0.001	U	0.00095	U	0.0011	U	0.0012	U	0.00097	U	0.001	U	0.00094	U	0.00093	U	0.00099	U	0.00096	U	0.00093	U	0.00098	U	0.001	U	0.00094	U	0.0018	U
trans-1,2-Dichloroethene	156-60-5	mg/kg	0.19	100	500	0.19	0.001	U	0.00095	U	0.0011	U	0.0012	U	0.00097	U	0.001	U	0.00094	U	0.00093	U	0.00099	U	0.00096	U	0.00093	U	0.00098	U	0.001	U	0.00094	U	0.0018	U
trans-1,3-Dichloropropene	10061-02-6	mg/kg	NS	NS	NS	NS	0.002	U	0.0019	U	0.0022	U	0.0024	U	0.0019	U	0.0021	U	0.0019	U	0.0019	U	0.002	U	0.0019	U	0.0019	U	0.002	U	0.0021	U	0.0019	U	0.0035	U
trans-1,4-Dichloro-2-butene	110-57-6	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Trichloroethene	79-01-6	mg/kg	0.47	6.4	54	0.47	0.001	U	0.00095	U	0.0011	U	0.0012	U	0.00097	U	0.001	U	0.00094	U	0.00093	U	0.00099	U	0.00096	U	0.00093	U	0.00098	U	0.001	U	0.00094	U	0.0018	U
Trichlorofluoromethane	75-69-4	mg/kg	NS	NS	NS	NS	0.0051	U	0.0048	U	0.0054	U	0.0061	U	0.0049	U	0.0052	U	0.0047	U	0.0046	U	0.005	U	0.0048	U	0.0046	U	0.0049	U	0.0052	U	0.0047	U	0.0088	U
Vinyl acetate	108-05-4	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Vinyl chloride	75-01-4	mg/kg	0.03	0.48	7.1	0.03	0.002	U	0.0019	U	0.0022	U	0.0024	U	0.0019	U	0.0021	U	0.0019	U	0.0019	U	0.002	U	0.0019	U	0.0019	U	0.002	U	0.0021	U	0.0019	U	0.0035	U
Xylene (total)	1330-20-7	mg/kg	0.26	100	500	1.2	0.001	U	0.00095	U	0.0011	U	0.0012	U	0.00097	U	0.001	U	0.00094	U	0.00093	U	0.00099	U	0.00096	U	0.00093	U	0.00098	U	0.001	U	0.00094	U	0.0018	U
Total TIC, Volatile	-	mg/kg	NS	NS	NS	NS	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs

Concentration Exceeds NYSDEC RRUSCOs

Concentration Exceeds NYSDEC UUSCOs

Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

TABLE 5.1 A
SUMMARY OF SOIL SAMPLING RESULTS—VOCs

SAMPLE ID:							SB-89(2.5-3.0)		SB-89(6.5-7.0)		SB-89(12.5-13.0)		SB-90(3.5-4.0)		SB-90(6.5-7.0)		SB-90(13-13.5)		SB-91(3.5-4.0)		SB-91(7.0-7.5)		SB-92(2.0-2.5)		SB-92(5.5-6.0)		TRIP BLANK		TRIP BLANK	
LAB SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	JE18798-5		JE18798-6		JE18798-7		JE18796-1		JE18796-2		JE18796-3		JE18796-4		JE18796-5		JE18796-6		JE18796-7		L2547611-01		L2547764-01	
SAMPLE DATE:							9/10/2025		9/10/2025		9/10/2025		9/10/2025		9/10/2025		9/10/2025		9/10/2025		9/10/2025		9/10/2025		9/10/2025		7/29/2025		7/30/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
VOCs (SW846 8260D)																														
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		0.0005	U	0.0005	U
1,1,1-Trichloroethane	71-55-6	mg/kg	0.68	100	500	0.68	0.0023	U	0.0021	U	0.0017	U	0.0024	U	0.0022	U	0.002	U	0.002	U	0.0022	U	0.0022	U	0.12	U	0.0005	U	0.0005	U
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0017	U	0.0024	U	0.0022	U	0.002	U	0.002	U	0.0022	U	0.0022	U	0.12	U	0.0005	U	0.0005	U
1,1,2-Trichloroethane	79-00-5	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0017	U	0.0024	U	0.0022	U	0.002	U	0.002	U	0.0022	U	0.0022	U	0.12	U	0.001	U	0.001	U
1,1-Dichloroethane	75-34-3	mg/kg	0.27	47	240	0.27	0.0011	U	0.0011	U	0.00085	U	0.0012	U	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.0011	U	0.059	U	0.001	U	0.001	U
1,1-Dichloroethene	75-35-4	mg/kg	0.24	0.98	5.1	0.33	0.0011	U	0.0011	U	0.00085	U	0.0012	U	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.0011	U	0.059	U	0.001	U	0.001	U
1,1-Dichloropropene	563-58-6	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		0.0005	U	0.0005	U
1,2,3-Trichlorobenzene	87-61-6	mg/kg	NS	NS	NS	NS	0.0057	U	0.0053	U	0.0042	U	0.006	U	0.0054	U	0.0051	U	0.0049	U	0.0055	U	0.0055	U	0.29	U	0.002	U	0.002	U
1,2,3-Trichloropropane	96-18-4	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		0.002	U	0.002	U
1,2,4,5-Tetramethylbenzene	95-93-2	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		0.002	U	0.002	U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	NS	NS	NS	NS	0.0057	U	0.0053	U	0.0042	U	0.006	U	0.0054	U	0.0051	U	0.0049	U	0.0055	U	0.0055	U	0.29	U	0.002	U	0.002	U
1,2,4-Trimethylbenzene	95-63-6	mg/kg	5.9	100	500	5.9	-		-		-		-		-		-		-		-		-		-		0.002	U	0.002	U
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0017	U	0.0024	U	0.0022	U	0.002	U	0.002	U	0.0022	U	0.0022	U	0.12	U	0.003	U	0.003	U
1,2-Dibromoethane	106-93-4	mg/kg	NS	NS	NS	NS	0.0011	U	0.0011	U	0.00085	U	0.0012	U	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.0011	U	0.059	U	0.001	U	0.001	U
1,2-Dichlorobenzene	95-50-1	mg/kg	1.1	100	500	1.1	0.0011	U	0.0011	U	0.00085	U	0.0012	U	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.0011	U	0.059	U	0.002	U	0.002	U
1,2-Dichloroethane	107-06-2	mg/kg	0.02	5.8	30	0.02	0.0011	U	0.0011	U	0.00085	U	0.0012	U	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.0011	U	0.059	U	0.001	U	0.001	U
1,2-Dichloroethene, Total	540-59-0	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		0.001	U	0.001	U
1,2-Dichloropropane	78-87-5	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0017	U	0.0024	U	0.0022	U	0.002	U	0.002	U	0.0022	U	0.0022	U	0.12	U	0.001	U	0.001	U
1,3,5-Trimethylbenzene	108-67-8	mg/kg	3.1	100	500	3.1	-		-		-		-		-		-		-		-		-		-		0.002	U	0.002	U
1,3-Dichlorobenzene	541-73-1	mg/kg	2.6	38	280	2.6	0.0011	U	0.0011	U	0.00085	U	0.0012	U	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.0011	U	0.059	U	0.002	U	0.002	U
1,3-Dichloropropane	142-28-9	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		0.002	U	0.002	U
1,3-Dichloropropene, Total	542-75-6	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		0.0005	U	0.0005	U
1,4-Dichlorobenzene	106-46-7	mg/kg	1.8	24	130	1.8	0.0011	U	0.0011	U	0.00085	U	0.0012	U	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.0011	U	0.059	U	0.002	U	0.002	U
1,4-Dioxane	123-91-1	mg/kg	0.1	5.7	36	0.1	-		-		-		-		-		-		-		-		-		-		0.08	U	0.08	U
2,2-Dichloropropane	594-20-7	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		0.002	U	0.002	U
2-Butanone (MEK)	78-93-3	mg/kg	0.1	100	500	0.1	0.0168		0.011	U	0.0085	U	0.012	U	0.011	U	0.0044	J	0.0098	U	0.011	U	0.011	U	0.59	U	0.01	U	0.01	U
2-Hexanone	591-78-6	mg/kg	NS	NS	NS	NS	0.0057	U	0.0053	U	0.0042	U	0.006	U	0.0054	U	0.0051	U	0.0049	U	0.0055	U	0.0055	U	0.29	U	0.01	U	0.01	U
4-Methyl-2-pentanone(MIBK)	108-10-1	mg/kg	NS	NS	NS	NS	0.0057	U	0.0053	U	0.0042	U	0.006	U	0.0054	U	0.0051	U	0.0049	U	0.0055	U	0.0055	U	0.29	U	0.01	U	0.01	U
Acetone	67-64-1	mg/kg	0.03	100	500	0.03	0.118		0.0539		0.0042	J	0.0081	J	0.0172		0.0327		0.0098	U	0.0421		0.0068	J	0.59	U	0.01	U	0.01	U
Acrylonitrile	107-13-1	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		0.004	U	0.004	U
Benzene	71-43-2	mg/kg	0.06	3.7	20	0.06	0.00057	U	0.00053	U	0.00042	U	0.0006	U	0.00054	U	0.00051	U	0.00049	U	0.00055	U	0.00055	U	0.029	U	0.0005	U	0.0005	U
Bromobenzene	108-86-1	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		0.002	U	0.002	U
Bromochloromethane	74-97-5	mg/kg	NS	NS	NS	NS	0.0057	U	0.0053	U	0.0042	U	0.006	U	0.0054	U	0.0051	U	0.0049	U	0.0055	U	0.0055	U	0.29	U	0.002	U	0.002	U
Bromodichloromethane	75-27-4	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0017	U	0.0024	U	0.0022	U	0.002	U	0.002	U	0.0022	U	0.0022	U	0.12	U	0.0005	U	0.0005	U
Bromoform	75-25-2	mg/kg	NS	NS	NS	NS	0.0057	U	0.0053	U	0.0042	U	0.006	U	0.0054	U	0.0051	U	0.0049	U	0.0055	U	0.0055	U	0.29	U	0.004	U	0.004	U
Bromomethane	74-83-9	mg/kg	NS	NS	NS	NS	0.0057	U	0.0053	U	0.0042	U	0.006	U	0.0054	U	0.0051	U	0.0049	U	0.0055	U	0.0055	U	0.29	U	0.002	U	0.002	U
Carbon disulfide	75-15-0	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0017	U	0.0024	U	0.0022	U	0.002	U	0.002	U	0.0022	U	0.0022	U	0.12	U	0.01	U	0.01	U
Carbon tetrachloride	56-23-5	mg/kg	0.76	7.1	41	0.76	0.0023	U	0.0021	U	0.0017	U	0.0024	U	0.0022	U	0.002	U	0.002	U	0.0022	U	0.0022	U	0.12	U	0.001	U	0.001	U
Chlorobenzene	108-90-7	mg/kg	4.5	100	500	4.5	0.0023	U	0.0021	U	0.0017	U	0.0024	U	0.0022	U	0.002	U	0.002	U	0.0022	U	0.0022	U	0.12	U	0.0005	U	0.0005	U
Chloroethane	75-00-3	mg/kg	NS	NS	NS	NS	0.0057	U	0.0053	U	0.0042	U	0.006	U	0.0054	U	0.0051	U	0.0049	U	0.0055	U	0.0055	U	0.29	U	0.002	U	0.002	U
Chloroform	67-66-3	mg/kg	0.37	24	180	0.37	0.0023	U	0.0021	U	0.0017	U	0.0024	U	0.0022	U	0.002	U	0.002	U	0.0022	U	0.0022	U	0.12	U	0.0015	U	0.0015	U
Chloromethane	74-87-3	mg/kg	NS	NS	NS	NS	0.0057	U	0.0053	U	0.0042	U	0.006	U	0.0054	U	0.0051	U	0.0049	U	0.0055	U	0.0055	U	0.29	U	0.004	U	0.004	U
cis-1,2-Dichloroethene	156-59-2	mg/kg	0.19	41	500	0.19	0.0011	U	0.0011	U	0.00085	U	0.0012	U	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.0011	U	0.059	U	0.001	U	0.001	U
cis-1,3-Dichloropropene	10061-01-5	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0017	U	0.0024	U	0.0022	U	0.002	U	0.002	U	0.0022	U	0.0022	U	0.12	U	0.0005	U	0.0005	U
Cyclohexane	110-82-7	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0017	U	0.0024	U	0.0022	U	0.002	U	0.002	U	0.0022	U	0.0022	U	0.12	U	-		-	
Dibromochloromethane	124-48-1	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0017	U	0.0024	U	0.0022	U	0.002	U	0.002	U	0.0022	U	0.0022	U	0.12	U	0.001	U	0.001	U
Dibromomethane	74-95-3	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		0.002	U	0.002	U
Dichlorodifluoromethane	75-71-8	mg/kg	NS	NS	NS	NS	0.0057	U	0.0053	U	0.0042	U	0.006	U	0.0054	U	0.0051	U	0.0049	U	0.0055	U	0.0055	U	0.29	U	0.01	U	0.01	U
Ethyl ether	60-29-7	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		0.002	U	0.002	U
Ethylbenzene	100-41-4	mg/kg	1	76	390	1	0.0011	U	0.0011	U	0.00085	U	0.0012	U	0.0011	U	0.001	U	0.00098	U	0.0023		0.0011	U	0.059	U	0.001	U	0.001	U
Freon 113	76-13-1	mg/kg	NS	NS	NS	NS	0.0057	U	0.0053	U	0.0042	U	0.006	U	0.0054	U	0.0051	U	0.0049	U	0.0055	U	0.0055	U	0.29	U	-		-	
Hexachlorobutadiene	87-68-3	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		0.004	U	0.004	U
Isopropylbenzene	98-82-8	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0017	U	0.0024	U	0.0022	U	0.0043		0.002	U	0.002	J	0.0022	U	0.481		0.001	U	0.001	U
m,p-Xylene	179601-23-1	mg/kg	NS	NS	NS	NS	0.0011	U	0.0011	U	0.00085	U	0.0012	U	0.0011	U	0.001	U	0.00098	U	0.0086		0.0011	U	0.0533	J	0.002	U	0.002	U
Methyl Acetate	79-20-9	mg/kg	NS	NS	NS	NS	0.0057	U	0.0053	U	0.0042	U	0.006	U	0.0054	U	0.0051	U	0.0049	U	0.0055	U	0.0055	U	0.29	U	-		-	
Methyl Tert Butyl Ether	1634-04-4	mg/kg	0.1	100	500	0.1	0.0011	U	0.0011	U	0.00085	U	0.0012	U	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.0011	U	0.059	U	0.002	U	0.002	U
Methylcyclohexane	108-87-2	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0017	U	0.0024	U	0.0022	U	0.0018	J	0.002	U	0.0015	J	0.0022	U	0.12	U	-		-	
Methylene chloride	75-09-2	mg/kg	0.05	81	500	0.05	0.0057	U	0.0053	U	0.0028	J	0.006	U	0.0054	U	0.0035	J	0.0037	J	0.0043	J	0.0055	U	0.29	U	0.005	U	0.005	U
Naphthalene	91-20-3	mg/kg	12	100	500	12	-		-		-		-		-		-		-		-		-		-		0.004	U	0.004	U
n-Butylbenzene	104-51-8	mg/kg	18	100	500	18	-		-		-		-		-		-		-		-		-		-		0.001	U	0.001	U
n-Propylbenzene	103-65-1	mg/kg	5	100	500	5	-		-		-		-		-		-		-		-		-		-		0.001	U	0.001	U
o-Chlorotoluene	95-49-8	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		0.002	U	0.002	U
o-Xylene	95-47-6	mg/kg	NS	NS	NS	NS	0.0011	U	0.0011	U	0.00085	U	0.0012	U	0.0011	U	0.001	U	0.00098	U	0.0022		0.0011	U	0.059	U	0.001	U	0.001	U
p-Chlorotoluene	106-43-4	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		0.002	U	0.002	U
p-Diethylbenzene	105-05-5	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		0.002	U	0.002	U
p-Ethyltoluene	622-96-8	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		0.002	U	0.002	U
p-Isopropyltoluene	99-87-6	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		0.001	U	0.001	U
sec-Butylbenzene	135-98-8	mg/kg	25	100	500	25	-		-		-		-		-		-		-		-		-		-		0.001	U	0.001	U
Styrene	100-42-5	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0017	U	0.0024	U	0.0022	U	0.002	U	0.002	U	0.0022	U	0.0022	U	0.12	U	0.001	U	0.001	U
tert-Butylbenzene	98-06-6	mg/kg	11	100	500	11	-		-		-		-		-		-		-		-		-		-		0.002	U	0.002	U
Tetrachloroethene	127-18-4	mg/kg	1.3	18	81	1.3	0.0023	U	0.0021	U	0.0017	U	0.0024	U	0.0022	U	0.002	U	0.002	U	0.0022	U	0.0022	U	0.12	U	0.0005	U	0.0005	U
Toluene	108-88-3	mg/kg	0.7	100	500	0.7	0.0011	U	0.0011	U	0.00085	U	0.0012	U	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.0011	U	0.059	U	0.001	U	0.001	U
trans-1,2-Dichloroethene	156-60-5	mg/kg	0.19	100	500	0.19	0.0011	U	0.0011	U	0.00085	U	0.0012	U	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.0011	U	0.059	U	0.0015	U	0.0015	U
trans-1,3-Dichloropropene	10061-02-6	mg/kg	NS	NS	NS	NS	0.0023	U	0.0021	U	0.0017	U	0.0024	U	0.0022	U	0.002	U	0.002	U	0.0022	U	0.0022	U	0.12	U	0.001	U	0.001	U
trans-1,4-Dichloro-2-butene	110-57-6	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		0.005	U	0.005	U
Trichloroethene	79-01-6	mg/kg	0.47	6.4	54	0.47	0.0011	U	0.0011	U	0.00085	U	0.0012	U	0.0011	U	0.001	U	0.00098	U	0.0011	U	0.0011	U	0.059	U	0.0005	U	0.0005	U
Trichlorofluoromethane	75-69-4	mg/kg	NS	NS	NS	NS	0.0057	U	0.0053	U	0.0042	U	0.006	U	0.0054	U	0.0051	U	0.0049	U	0.0055	U	0.0055	U	0.29	U	0.004	U	0.004	U
Vinyl acetate	108-05-4	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		0.01	U	0.01	U
Vinyl chloride	75-01-4	mg/kg	0.03	0.48	7.1	0.03	0.0023	U	0.0021	U	0.0017	U	0.0024	U	0.0022	U	0.002	U	0.002	U	0.0022	U	0.0022	U	0.12	U	0.001	U	0.001	U
Xylene (total)	1330-20-7	mg/kg	0.26	100	500	1.2	0.0011	U	0.0011	U	0.00085	U	0.0012	U	0.0011	U	0.001	U	0.00098	U	0.0108		0.0011	U	0.0533	J	0.001	U	0.001	U
Total TIC, Volatile	-	mg/kg	NS	NS	NS	NS	0		0		0		0		0.012	J	1.966	J	0		0.0134	J	0		221.4	J	-		-	

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs

Concentration Exceeds NYSDEC RRUSCOs

Concentration Exceeds NYSDEC UUSCOs

Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-1 (5.5-6.0)		SB-30 (7.5-8)		SB-43 (9-10)		SB-51 (9-10)		TRIP BLANK	
LAB SAMPLE ID:							L2542207-01		L2548308-08		L2550303-09		L2550303-25		L2547764-01	
SAMPLE DATE:							7/7/2025		7/31/2025		8/11/2025		8/11/2025		7/30/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
VOCs - HIGH (SW846 8260D)																
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	NS	NS	NS	NS	0.032	U	0.029	U	0.04	U	0.038	U	0.025	U
1,1,1-Trichloroethane	71-55-6	mg/kg	0.68	100	500	0.68	0.032	U	0.029	U	0.04	U	0.038	U	0.025	U
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	NS	NS	NS	NS	0.032	U	0.029	U	0.04	U	0.038	U	0.025	U
1,1,2-Trichloroethane	79-00-5	mg/kg	NS	NS	NS	NS	0.064	U	0.059	U	0.08	U	0.075	U	0.05	U
1,1-Dichloroethane	75-34-3	mg/kg	0.27	47	240	0.27	0.064	U	0.059	U	0.08	U	0.075	U	0.05	U
1,1-Dichloroethene	75-35-4	mg/kg	0.24	0.98	5.1	0.33	0.064	U	0.059	U	0.08	U	0.075	U	0.05	U
1,1-Dichloropropene	563-58-6	mg/kg	NS	NS	NS	NS	0.032	U	0.029	U	0.04	U	0.038	U	0.025	U
1,2,3-Trichlorobenzene	87-61-6	mg/kg	NS	NS	NS	NS	0.13	U	0.12	U	0.16	U	0.15	U	0.1	U
1,2,3-Trichloropropane	96-18-4	mg/kg	NS	NS	NS	NS	0.13	U	0.12	U	0.16	U	0.15	U	0.1	U
1,2,4,5-Tetramethylbenzene	95-93-2	mg/kg	NS	NS	NS	NS	2.4		0.15		0.71		0.1	J	0.1	U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	NS	NS	NS	NS	0.13	U	0.12	U	0.16	U	0.15	U	0.1	U
1,2,4-Trimethylbenzene	95-63-6	mg/kg	5.9	100	500	5.9	0.056	J	0.25		0.028	J	0.15	U	0.1	U
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.24	U	0.22	U	0.15	U
1,2-Dibromoethane	106-93-4	mg/kg	NS	NS	NS	NS	0.064	U	0.059	U	0.08	U	0.075	U	0.05	U
1,2-Dichlorobenzene	95-50-1	mg/kg	1.1	100	500	1.1	0.13	U	0.12	U	0.16	U	0.15	U	0.1	U
1,2-Dichloroethane	107-06-2	mg/kg	0.02	5.8	30	0.02	0.064	U	0.059	U	0.08	U	0.075	U	0.05	U
1,2-Dichloroethene, Total	540-59-0	mg/kg	NS	NS	NS	NS	0.064	U	0.059	U	0.08	U	0.075	U	0.05	U
1,2-Dichloropropane	78-87-5	mg/kg	NS	NS	NS	NS	0.064	U	0.059	U	0.08	U	0.075	U	0.05	U
1,3,5-Trimethylbenzene	108-67-8	mg/kg	3.1	100	500	3.1	0.023	J	0.09	J	0.16	U	0.15	U	0.1	U
1,3-Dichlorobenzene	541-73-1	mg/kg	2.6	38	280	2.6	0.13	U	0.12	U	0.16	U	0.15	U	0.1	U
1,3-Dichloropropane	142-28-9	mg/kg	NS	NS	NS	NS	0.13	U	0.12	U	0.16	U	0.15	U	0.1	U
1,3-Dichloropropene, Total	542-75-6	mg/kg	NS	NS	NS	NS	0.032	U	0.029	U	0.04	U	0.038	U	0.025	U
1,4-Dichlorobenzene	106-46-7	mg/kg	1.8	24	130	1.8	0.13	U	0.12	U	0.16	U	0.15	U	0.1	U
1,4-Dioxane	123-91-1	mg/kg	0.1	5.7	36	0.1	5.2	U	4.7	U	6.4	U	6	U	4	U
2,2-Dichloropropane	594-20-7	mg/kg	NS	NS	NS	NS	0.13	U	0.12	U	0.16	U	0.15	U	0.1	U
2-Butanone	78-93-3	mg/kg	0.1	100	500	0.1	0.64	U	0.59	U	0.8	U	0.75	U	0.5	U
2-Hexanone	591-78-6	mg/kg	NS	NS	NS	NS	0.64	U	0.59	U	0.8	U	0.75	U	0.5	U
4-Methyl-2-pentanone	108-10-1	mg/kg	NS	NS	NS	NS	0.64	U	0.59	U	0.8	U	0.75	U	0.5	U
Acetone	67-64-1	mg/kg	0.03	100	500	0.03	0.64	U	0.59	U	0.8	U	0.75	U	0.5	U
Acrylonitrile	107-13-1	mg/kg	NS	NS	NS	NS	0.26	U	0.24	U	0.32	U	0.3	U	0.2	U
Benzene	71-43-2	mg/kg	0.06	3.7	20	0.06	0.047		0.029	U	0.016	J	0.038	U	0.025	U
Bromobenzene	108-86-1	mg/kg	NS	NS	NS	NS	0.13	U	0.12	U	0.16	U	0.15	U	0.1	U
Bromochloromethane	74-97-5	mg/kg	NS	NS	NS	NS	0.13	U	0.12	U	0.16	U	0.15	U	0.1	U
Bromodichloromethane	75-27-4	mg/kg	NS	NS	NS	NS	0.032	U	0.029	U	0.04	U	0.038	U	0.025	U
Bromoform	75-25-2	mg/kg	NS	NS	NS	NS	0.26	U	0.24	U	0.32	U	0.3	U	0.2	U
Bromomethane	74-83-9	mg/kg	NS	NS	NS	NS	0.13	U	0.12	U	0.16	U	0.15	U	0.1	U
Carbon disulfide	75-15-0	mg/kg	NS	NS	NS	NS	0.64	U	0.59	U	0.8	U	0.75	U	0.5	U
Carbon tetrachloride	56-23-5	mg/kg	0.76	7.1	41	0.76	0.064	U	0.059	U	0.08	U	0.075	U	0.05	U
Chlorobenzene	108-90-7	mg/kg	4.5	100	500	4.5	0.032	U	0.029	U	0.04	U	0.038	U	0.025	U
Chloroethane	75-00-3	mg/kg	NS	NS	NS	NS	0.13	U	0.12	U	0.16	U	0.15	U	0.1	U
Chloroform	67-66-3	mg/kg	0.37	24	180	0.37	0.097	U	0.088	U	0.12	U	0.11	U	0.075	U
Chloromethane	74-87-3	mg/kg	NS	NS	NS	NS	0.26	U	0.24	U	0.32	U	0.3	U	0.2	U
cis-1,2-Dichloroethene	156-59-2	mg/kg	0.19	41	500	0.19	0.064	U	0.059	U	0.08	U	0.075	U	0.05	U
cis-1,3-Dichloropropene	10061-01-5	mg/kg	NS	NS	NS	NS	0.032	U	0.029	U	0.04	U	0.038	U	0.025	U
Dibromochloromethane	124-48-1	mg/kg	NS	NS	NS	NS	0.064	U	0.059	U	0.08	U	0.075	U	0.05	U
Dibromomethane	74-95-3	mg/kg	NS	NS	NS	NS	0.13	U	0.12	U	0.16	U	0.15	U	0.1	U
Dichlorodifluoromethane	75-71-8	mg/kg	NS	NS	NS	NS	0.64	U	0.59	U	0.8	U	0.75	U	0.5	U
Ethyl ether	60-29-7	mg/kg	NS	NS	NS	NS	0.13	U	0.12	U	0.16	U	0.15	U	0.1	U
Ethylbenzene	100-41-4	mg/kg	1	76	390	1	0.046	J	0.014	J	0.022	J	0.013	J	0.05	U
Hexachlorobutadiene	87-68-3	mg/kg	NS	NS	NS	NS	0.26	U	0.24	U	0.32	U	0.3	U	0.2	U
Isopropylbenzene	98-82-8	mg/kg	NS	NS	NS	NS	0.09		0.012	J	0.078	J	0.0094	J	0.05	U
Methyl tert butyl ether	1634-04-4	mg/kg	0.1	100	500	0.1	0.13	U	0.12	U	0.16	U	0.15	U	0.1	U
Methylene chloride	75-09-2	mg/kg	0.05	81	500	0.05	0.32	U	0.29	U	0.4	U	0.38	U	0.25	U
Naphthalene	91-20-3	mg/kg	12	100	500	12	0.73		0.07	J	0.072	J	0.3	U	0.2	U
n-Butylbenzene	104-51-8	mg/kg	18	100	500	18	0.18		0.067		0.28		0.072	J	0.05	U
n-Propylbenzene	103-65-1	mg/kg	5	100	500	5	0.18		0.05	J	0.33		0.036	J	0.05	U
o-Chlorotoluene	95-49-8	mg/kg	NS	NS	NS	NS	0.13	U	0.12	U	0.16	U	0.15	U	0.1	U
o-Xylene	95-47-6	mg/kg	NS	NS	NS	NS	0.03	J	0.059	U	0.08	U	0.075	U	0.05	U
p/m-Xylene	179601-23-1	mg/kg	NS	NS	NS	NS	0.13		0.04	J	0.16	U	0.15	U	0.1	U
p-Chlorotoluene	106-43-4	mg/kg	NS	NS	NS	NS	0.13	U	0.12	U	0.16	U	0.15	U	0.1	U
p-Diethylbenzene	105-05-5	mg/kg	NS	NS	NS	NS	0.37		0.12	U	0.2		0.032	J	0.1	U
p-Ethyltoluene	622-96-8	mg/kg	NS	NS	NS	NS	0.065	J	0.12		0.16	U	0.15	U	0.1	U
p-Isopropyltoluene	99-87-6	mg/kg	NS	NS	NS	NS	0.032	J	0.017	J	0.08	U	0.075	U	0.05	U
sec-Butylbenzene	135-98-8	mg/kg	25	100	500	25	0.21		0.022	J	0.11		0.028	J	0.05	U
Styrene	100-42-5	mg/kg	NS	NS	NS	NS	0.064	U	0.059	U	0.08	U	0.075	U	0.05	U
tert-Butylbenzene	98-06-6	mg/kg	11	100	500	11	0.072	J	0.12	U	0.16	U	0.15	U	0.1	U
Tetrachloroethene	127-18-4	mg/kg	1.3	18	81	1.3	0.032	U	0.029	U	0.04	U	0.038	U	0.025	U
Toluene	108-88-3	mg/kg	0.7	100	500	0.7	0.092		0.059	U	0.08	U	0.075	U	0.05	U
trans-1,2-Dichloroethene	156-60-5	mg/kg	0.19	100	500	0.19	0.097	U	0.088	U	0.12	U	0.11	U	0.075	U
trans-1,3-Dichloropropene	10061-02-6	mg/kg	NS	NS	NS	NS	0.064	U	0.059	U	0.08	U	0.075	U	0.05	U
trans-1,4-Dichloro-2-butene	110-57-6	mg/kg	NS	NS	NS	NS	0.32	U	0.29	U	0.4	U	0.38	U	0.25	U
Trichloroethene	79-01-6	mg/kg	0.47	6.4	54	0.47	0.032	U	0.029	U	0.04	U	0.038	U	0.025	U
Trichlorofluoromethane	75-69-4	mg/kg	NS	NS	NS	NS	0.26	U	0.24	U	0.32	U	0.3	U	0.2	U
Vinyl acetate	108-05-4	mg/kg	NS	NS	NS	NS	0.64	U	0.59	U	0.8	U	0.75	U	0.5	U
Vinyl chloride	75-01-4	mg/kg	0.03	0.48	7.1	0.03	0.064	U	0.059	U	0.08	U	0.075	U	0.05	U
Xylenes, Total	1330-20-7	mg/kg	0.26	100	500	1.2	0.16	J	0.04	J	0.08	U	0.075	U	0.05	U

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs

Concentration Exceeds NYSDEC RRUSCOs

Concentration Exceeds NYSDEC UUSCOs

Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

TABLE 5.2
SUMMARY OF SOIL SAMPLING RESULTS—SVOCs

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-1 (2.0-2.5)		SB-1 (5.5-6.0)		SB-1 (10.5-11.0)		SB-2 (3.0-3.5)		SB-2 (7.5-8.0)		SB-2 (12.0-12.5)		SB-2 (12.0-12.5)		SB-3 (3.5-4.0)		SB-3 (7.5-8.0)		SB-3 (10.0-10.5)	
LAB SAMPLE ID:							L2543726-10		L2542974-06		L2543726-11		L2543726-08		L2543726-09		L2542974-07		L2542974-07 R1		L2543856-01		L2543856-02		L2542974-08	
SAMPLE DATE:							7/11/2025		7/9/2025		7/11/2025		7/11/2025		7/11/2025		7/9/2025		7/9/2025		7/14/2025		7/14/2025		7/9/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
SVOCs (SW846 8270E)																										
1,1'-Biphenyl	92-52-4	mg/kg	NS	NS	NS	NS	0.42	U	0.41	U	0.41	U	0.47	U	0.034	J	0.36	J	-		0.46	U	0.41	U	0.42	U
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.19	U	-		0.2	U	0.18	U	0.18	U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.19	U	-		0.2	U	0.18	U	0.18	U
1,2-Dichlorobenzene	95-50-1	mg/kg	1.1	100	500	1.1	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.19	U	-		0.2	U	0.18	U	0.18	U
1,3-Dichlorobenzene	541-73-1	mg/kg	2.6	38	280	2.6	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.19	U	-		0.2	U	0.18	U	0.18	U
1,4-Dichlorobenzene	106-46-7	mg/kg	1.8	24	130	1.8	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.19	U	-		0.2	U	0.18	U	0.18	U
1,4-Dioxane	123-91-1	mg/kg	0.1	5.7	36	0.1	0.028	U	0.027	U	0.027	U	0.031	U	0.028	U	0.028	U	-		0.03	U	0.027	U	0.028	U
2,2'-Oxybis(1-chloropropane)	108-60-1	mg/kg	NS	NS	NS	NS	0.22	U	0.22	U	0.22	U	0.24	U	0.22	U	0.23	U	-		0.24	U	0.22	U	0.22	U
2,3,4,6-Tetrachlorophenol	58-90-2	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-	
2,4,5-Trichlorophenol	95-95-4	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.19	U	-		0.2	U	0.18	U	0.18	U
2,4,6-Trichlorophenol	88-06-2	mg/kg	NS	NS	NS	NS	0.11	U	0.11	U	0.11	U	0.12	U	0.11	U	0.11	U	-		0.12	U	0.11	U	0.11	U
2,4-Dichlorophenol	120-83-2	mg/kg	NS	NS	NS	NS	0.17	U	0.16	U	0.16	U	0.18	U	0.16	U	0.17	U	-		0.18	U	0.16	U	0.16	U
2,4-Dimethylphenol	105-67-9	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.19	U	-		0.2	U	0.18	U	0.18	U
2,4-Dinitrophenol	51-28-5	mg/kg	NS	NS	NS	NS	0.89	U	0.87	U	0.87	U	0.98	U	0.88	U	0.91	U	-		0.97	U	0.86	U	0.88	U
2,4-Dinitrotoluene	121-14-2	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.19	U	-		0.2	U	0.18	U	0.18	U
2,6-Dinitrotoluene	606-20-2	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.19	U	-		0.2	U	0.18	U	0.18	U
2-Chloronaphthalene	91-58-7	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.19	U	-		0.2	U	0.18	U	0.18	U
2-Chlorophenol	95-57-8	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.19	U	-		0.2	U	0.18	U	0.18	U
2-Methylnaphthalene	91-57-6	mg/kg	NS	NS	NS	NS	0.11	J	0.19	J	0.26		0.24	U	1.2		33	E	40		0.024	J	0.22	U	0.22	U
2-Methylphenol	95-48-7	mg/kg	0.33	100	500	0.33	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.19	U	-		0.2	U	0.18	U	0.18	U
2-Nitroaniline	88-74-4	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.19	U	-		0.2	U	0.18	U	0.18	U
2-Nitrophenol	88-75-5	mg/kg	NS	NS	NS	NS	0.4	U	0.39	U	0.39	U	0.44	U	0.4	U	0.41	U	-		0.44	U	0.39	U	0.4	U
3&4-Methylphenol	108-39-4/106-44-5	mg/kg	NS	NS	NS	NS	0.27	U	0.26	U	0.26	U	0.3	U	0.26	U	0.27	U	-		0.29	U	0.26	U	0.26	U
3,3'-Dichlorobenzidine	91-94-1	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.19	U	-		0.2	U	0.18	U	0.18	U
3-Nitroaniline	99-09-2	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.19	U	-		0.2	U	0.18	U	0.18	U
4,6-Dinitro-o-cresol	534-52-1	mg/kg	NS	NS	NS	NS	0.48	U	0.47	U	0.47	U	0.53	U	0.48	U	0.49	U	-		0.52	U	0.47	U	0.48	U
4-Bromophenyl phenyl ether	101-55-3	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.19	U	-		0.2	U	0.18	U	0.18	U
4-Chloro-3-methyl phenol	59-50-7	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.19	U	-		0.2	U	0.18	U	0.18	U
4-Chloroaniline	106-47-8	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.19	U	-		0.2	U	0.18	U	0.18	U
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.19	U	-		0.2	U	0.18	U	0.18	U
4-Nitroaniline	100-01-6	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.19	U	-		0.2	U	0.18	U	0.18	U
4-Nitrophenol	100-02-7	mg/kg	NS	NS	NS	NS	0.26	U	0.25	U	0.25	U	0.29	U	0.26	U	0.26	U	-		0.28	U	0.25	U	0.26	U
Acenaphthene	83-32-9	mg/kg	20	100	500	98	0.15	U	0.14	U	0.066	J	0.16	U	0.15	U	0.08	J	-		0.16	U	0.14	U	0.15	U
Acenaphthylene	208-96-8	mg/kg	100	100	500	365	0.15	U	0.14	U	0.14	U	0.038	J	0.15	U	0.064	J	-		0.16	U	0.14	U	0.15	U
Acetophenone	98-86-2	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.19	U	-		0.2	U	0.18	U	0.18	U
Anthracene	120-12-7	mg/kg	100	100	500	1000	0.11	U	0.11	U	0.065	J	0.12	U	0.11	U	0.042	J	-		0.04	J	0.11	U	0.11	U
Atrazine	1912-24-9	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-	
Benzaldehyde	100-52-7	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-	
Benzo(a)anthracene	56-55-3	mg/kg	1	1.4	37	1	0.11	U	0.11	U	0.034	J	0.028	J	0.11	U	0.043	J	-		0.21		0.11	U	0.076	J
Benzo(a)pyrene	50-32-8	mg/kg	1	1	3.7	22	0.15	U	0.14	U	0.14	U	0.16	U	0.15	U	0.15	U	-		0.19		0.14	U	0.094	J
Benzo(b)fluoranthene	205-99-2	mg/kg	1	1.4	37	2.1	0.11	U	0.11	U	0.042	J	0.064	J	0.11	U	0.042	J	-		0.27		0.11	U	0.13	
Benzo(g,h,i)perylene	191-24-2	mg/kg	0.64	4.9	47	1000	0.15	U	0.14	U	0.14	U	0.056	J	0.15	U	0.026	J	-		0.18		0.14	U	0.08	J
Benzo(k)fluoranthene	207-08-9	mg/kg	0.8	4.9	47	2	0.11	U	0.11	U	0.11	U	0.12	U	0.11	U	0.11	U	-		0.087	J	0.11	U	0.036	J
Benzoic Acid	65-85-0	mg/kg	NS	NS	NS	NS	0.6	U	0.59	U	0.59	U	0.66	U	0.6	U	0.61	U	-		0.65	U	0.58	U	0.6	U
Benzyl Alcohol	100-51-6	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.19	U	-		0.2	U	0.18	U	0.18	U
bis(2-Chloroethoxy)methane	111-91-1	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.2	U	0.22	U	0.2	U	0.2	U	-		0.22	U	0.19	U	0.2	U
bis(2-Chloroethyl)ether	111-44-4	mg/kg	NS	NS	NS	NS	0.17	U	0.16	U	0.16	U	0.18	U	0.16	U	0.17	U	-		0.18	U	0.16	U	0.16	U
bis(2-Ethylhexyl)phthalate	117-81-7	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.19	U	-		0.2	U	0.18	U	0.18	U
Butyl benzyl phthalate	85-68-7	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.19	U	-		0.2	U	0.18	U	0.18	U
Caprolactam	105-60-2	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-	
Carbazole	86-74-8	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.019	J	-		0.2	U	0.18	U	0.18	U
Chrysene	218-01-9	mg/kg	1	4.9	47	1	0.02	J	0.02	J	0.044	J	0.04	J	0.11	U	0.042	J	-		0.22		0.11	U	0.089	J
Dibenzo(a,h)anthracene	53-70-3	mg/kg	0.33	0.33	3.7	1000	0.11	U	0.11	U	0.11	U	0.12	U	0.11	U	0.11	U	-		0.028	J	0.11	U	0.11	U
Dibenzofuran	132-64-9	mg/kg	2.1	18	180	110	0.18	U	0.18	U	0.065	J	0.2	U	0.18	U	0.03	J	-		0.2	U	0.18	U	0.18	U
Diethyl phthalate	84-66-2	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.19	U	-		0.2	U	0.18	U	0.18	U
Dimethyl phthalate	131-11-3	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.19	U	-		0.2	U	0.18	U	0.18	U
Di-n-butyl phthalate	84-74-2	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.19	U	-		0.2	U	0.18	U	0.18	U
Di-n-octyl phthalate	117-84-0	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.19	U	-		0.2	U	0.18	U	0.18	U
Fluoranthene	206-44-0	mg/kg	85	100	500	1000	0.024	J	0.11	U	0.092	J	0.12	U	0.11	U	0.089	J	-		0.44		0.11	U	0.15	
Fluorene	86-73-7	mg/kg	30	100	500	386	0.028	J	0.18	U	0.032	J	0.2	U	0.18	U	0.097	J	-		0.2	U	0.18	U	0.18	U
Hexachlorobenzene	118-74-1	mg/kg	0.33	0.33	1.8	3.2	0.11	U	0.11	U	0.11	U	0.12	U	0.11	U	0.11	U	-		0.12	U	0.11	U	0.11	U
Hexachlorobutadiene	87-68-3	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.19	U	-		0.2	U	0.18	U	0.18	U
Hexachlorocyclopentadiene	77-47-4	mg/kg	NS	NS	NS	NS	0.53	U	0.52	U	0.52	U	0.59	U	0.52	U	0.54	U	-		0.58	U	0.51	U	0.52	U
Hexachloroethane	67-72-1	mg/kg	NS	NS	NS	NS	0.15	U	0.14	U	0.14	U	0.16	U	0.15	U	0.15	U	-		0.16	U	0.14	U	0.15	U
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0.5	1.4	37	6.6	0.15	U	0.14	U	0.14	U	0.046	J	0.15	U	0.15	U	-		0.16		0.14	U	0.074	J
Isophorone	78-59-1	mg/kg	NS	NS	NS	NS	0.17	U	0.16	U	0.16	U	0.18	U	0.16	U	0.17	U	-		0.18	U	0.16	U	0.16	U
Naphthalene	91-20-3	mg/kg	12	100	500	12	0.1	J	0.22		0.23		0.2	U	0.76		27	E	46		0.025	J	0.18	U	0.18	U
Nitrobenzene	98-95-3	mg/kg	0.08	1.8	8.9	0.08	0.17	U	0.16	U	0.16	U	0.18	U	0.16	U	0.17	U	-		0.18	U	0.16	U	0.16	U
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.19	U	-		0.2	U	0.18	U	0.18	U
N-Nitrosodiphenylamine	86-30-6	mg/kg	NS	NS	NS	NS	0.15	U	0.14	U	0.14	U	0.16	U	0.15	U	0.15	U	-		0.16	U	0.14	U	0.15	U
Pentachlorophenol	87-86-5	mg/kg	0.8	1.3	6.9	0.8	0.15	U	0.14	U	0.14	U	0.16	U	0.15	U	0.15	U	-		0.16	U	0.14	U	0.15	U
Phenanthrene	85-01-8	mg/kg	1.1	4.9	47	1000	0.031	J	0.11	U	0.42		0.12	U	0.11	U	0.15		-		0.15		0.11	U	0.052	J
Phenol	108-95-2	mg/kg	0.33	100	500	0.33	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.19	U	-		0.2	U	0.18	U	0.18	U
Pyrene	129-00-0	mg/kg	64	100	500	1000	0.024	J	0.11	U	0.069	J	0.12	U	0.11	U	0.086	J	-		0.34		0.11	U	0.13	
Total TIC, Semi-Volatile	-	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-	

Notes
1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs
Concentration Exceeds NYSDEC RRUSCOs
Concentration Exceeds NYSDEC UUSCOs
Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

TABLE 5.2
SUMMARY OF SOIL SAMPLING RESULTS—SVOCs

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-4 (2.5-3.0)		SB-4 (9.0-9.5)		SB-4 (11.0-11.5)		SB-5 (3.0-3.5)		SB-5 (8.5-9.0)		SB-5 (12.5-13.0)		SB-6 (1.0-1.5)		SB-6 (8.0-8.5)		SB-6 (10.5-11.0)		SB-6 (10.5-11.0)		SB-7 (2.5-3.0)		SB-7 (6.0-6.5)	
LAB SAMPLE ID:							L2543856-03		L2542974-09		L2543856-04		L2543856-06		L2543856-07		L2542974-10		L2543726-12		L2543726-13		L2542974-11		L2542974-11 R1		L2542974-12		L2543856-05	
SAMPLE DATE:							7/14/2025		7/9/2025		7/14/2025		7/14/2025		7/14/2025		7/9/2025		7/11/2025		7/11/2025		7/9/2025		7/9/2025		7/9/2025		7/14/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
SVOCs (SW846 8270E)																														
1,1'-Biphenyl	92-52-4	mg/kg	NS	NS	NS	NS	0.4	U	0.4	U	0.48	U	0.4	U	0.39	U	0.41	U	0.39	U	0.39	U	0.4	U	-		0.4	U	0.43	U
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.21	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U	-		0.17	U	0.19	U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.21	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U	-		0.17	U	0.19	U
1,2-Dichlorobenzene	95-50-1	mg/kg	1.1	100	500	1.1	0.18	U	0.18	U	0.21	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U	-		0.17	U	0.19	U
1,3-Dichlorobenzene	541-73-1	mg/kg	2.6	38	280	2.6	0.18	U	0.18	U	0.21	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U	-		0.17	U	0.19	U
1,4-Dichlorobenzene	106-46-7	mg/kg	1.8	24	130	1.8	0.18	U	0.18	U	0.21	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U	-		0.17	U	0.19	U
1,4-Dioxane	123-91-1	mg/kg	0.1	5.7	36	0.1	0.026	U	0.026	U	0.031	U	0.027	U	0.026	U	0.027	U	0.026	U	0.026	U	0.026	U	-		0.026	U	0.028	U
2,2'-Oxybis(1-chloropropane)	108-60-1	mg/kg	NS	NS	NS	NS	0.21	U	0.21	U	0.25	U	0.21	U	0.2	U	0.21	U	0.21	U	0.21	U	0.21	U	-		0.21	U	0.23	U
2,3,4,6-Tetrachlorophenol	58-90-2	mg/kg	NS	NS	NS	NS							-		-		-		-		-		-		-		-		-	
2,4,5-Trichlorophenol	95-95-4	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.21	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U	-		0.17	U	0.19	U
2,4,6-Trichlorophenol	88-06-2	mg/kg	NS	NS	NS	NS	0.1	U	0.11	U	0.12	U	0.11	U	0.1	U	0.11	U	0.1	U	0.1	U	0.1	U	-		0.1	U	0.11	U
2,4-Dichlorophenol	120-83-2	mg/kg	NS	NS	NS	NS	0.16	U	0.16	U	0.19	U	0.16	U	0.15	U	0.16	U	0.15	U	0.16	U	0.16	U	-		0.16	U	0.17	U
2,4-Dimethylphenol	105-67-9	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.21	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U	-		0.17	U	0.19	U
2,4-Dinitrophenol	51-28-5	mg/kg	NS	NS	NS	NS	0.85	U	0.85	U	1	U	0.85	U	0.82	U	0.86	U	0.83	U	0.83	U	0.83	U	-		0.83	U	0.91	U
2,4-Dinitrotoluene	121-14-2	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.21	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U	-		0.17	U	0.19	U
2,6-Dinitrotoluene	606-20-2	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.21	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U	-		0.17	U	0.19	U
2-Chloronaphthalene	91-58-7	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.21	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U	-		0.17	U	0.19	U
2-Chlorophenol	95-57-8	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.21	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U	-		0.17	U	0.19	U
2-Methylnaphthalene	91-57-6	mg/kg	NS	NS	NS	NS	0.21	U	0.21	U	0.25	U	0.21	U	0.2	U	0.21	U	0.21	U	0.09	J	0.21	U	-		0.21	U	0.23	U
2-Methylphenol	95-48-7	mg/kg	0.33	100	500	0.33	0.18	U	0.18	U	0.21	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U	-		0.17	U	0.19	U
2-Nitroaniline	88-74-4	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.21	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U	-		0.17	U	0.19	U
2-Nitrophenol	88-75-5	mg/kg	NS	NS	NS	NS	0.38	U	0.38	U	0.45	U	0.38	U	0.37	U	0.39	U	0.37	U	0.37	U	0.37	U	-		0.38	U	0.41	U
3&4-Methylphenol	108-39-4/106-44-5	mg/kg	NS	NS	NS	NS	0.25	U	0.25	U	0.3	U	0.26	U	0.24	U	0.26	U	0.25	U	0.25	U	0.25	U	-		0.25	U	0.27	U
3,3'-Dichlorobenzidine	91-94-1	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.21	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U	-		0.17	U	0.19	U
3-Nitroaniline	99-09-2	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.21	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U	-		0.17	U	0.19	U
4,6-Dinitro-o-cresol	534-52-1	mg/kg	NS	NS	NS	NS	0.46	U	0.46	U	0.54	U	0.46	U	0.44	U	0.46	U	0.45	U	0.45	U	0.45	U	-		0.45	U	0.49	U
4-Bromophenyl phenyl ether	101-55-3	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.21	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U	-		0.17	U	0.19	U
4-Chloro-3-methyl phenol	59-50-7	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.21	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U	-		0.17	U	0.19	U
4-Chloroaniline	106-47-8	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.21	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U	-		0.17	U	0.19	U
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.21	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U	-		0.17	U	0.19	U
4-Nitroaniline	100-01-6	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.21	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U	-		0.17	U	0.19	U
4-Nitrophenol	100-02-7	mg/kg	NS	NS	NS	NS	0.25	U	0.25	U	0.29	U	0.25	U	0.24	U	0.25	U	0.24	U	0.24	U	0.24	U	-		0.24	U	0.26	U
Acenaphthene	83-32-9	mg/kg	20	100	500	98	0.14	U	0.14	U	0.17	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.03	J	-		0.14	U	0.15	U
Acenaphthylene	208-96-8	mg/kg	100	100	500	365	0.14	U	0.14	U	0.17	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.04	J	-		0.14	U	0.15	U
Acetophenone	98-86-2	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.21	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U	-		0.17	U	0.19	U
Anthracene	120-12-7	mg/kg	100	100	500	1000	0.1	U	0.11	U	0.12	U	0.11	U	0.1	U	0.11	U	0.1	U	0.1	U	0.42		-		0.1	U	0.11	U
Atrazine	1912-24-9	mg/kg	NS	NS	NS	NS							-		-		-		-		-		-		-		-		-	
Benzaldehyde	100-52-7	mg/kg	NS	NS	NS	NS							-		-		-		-		-		-		-		-		-	
Benzo(a)anthracene	56-55-3	mg/kg	1	1.4	37	1	0.1	U	0.11	U	0.12	U	0.083	J	0.1	U	0.042	J	0.043	J	0.03	J	8.1	E	10		0.1		0.11	U
Benzo(a)pyrene	50-32-8	mg/kg	1	1	3.7	22	0.14	U	0.14	U	0.17	U	0.085	J	0.14	U	0.048	J	0.14	U	0.14	U	7.1	E	8.5		0.1	J	0.15	U
Benzo(b)fluoranthene	205-99-2	mg/kg	1	1.4	37	2.1	0.1	U	0.11	U	0.12	U	0.1	J	0.1	U	0.063	J	0.053	J	0.045	J	10	E	12		0.14		0.11	U
Benzo(g,h,i)perylene	191-24-2	mg/kg	0.64	4.9	47	1000	0.14	U	0.14	U	0.17	U	0.058	J	0.14	U	0.042	J	0.027	J	0.028	J	3.5		-		0.067	J	0.15	U
Benzo(k)fluoranthene	207-08-9	mg/kg	0.8	4.9	47	2	0.1	U	0.11	U	0.12	U	0.038	J	0.1	U	0.11	U	0.1	U	0.1	U	2.6		-		0.039	J	0.11	U
Benzoic Acid	65-85-0	mg/kg	NS	NS	NS	NS	0.57	U	0.57	U	0.68	U	0.58	U	0.55	U	0.58	U	0.56	U	0.56	U	0.56	U	-		0.56	U	0.61	U
Benzyl Alcohol	100-51-6	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.21	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U	-		0.17	U	0.19	U
bis(2-Chloroethoxy)methane	111-91-1	mg/kg	NS	NS	NS	NS	0.19	U	0.19	U	0.23	U	0.19	U	0.18	U	0.19	U	0.18	U	0.19	U	0.19	U	-		0.19	U	0.2	U
bis(2-Chloroethyl)ether	111-44-4	mg/kg	NS	NS	NS	NS	0.16	U	0.16	U	0.19	U	0.16	U	0.15	U	0.16	U	0.15	U	0.16	U	0.16	U	-		0.16	U	0.17	U
bis(2-Ethylhexyl)phthalate	117-81-7	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.21	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U	-		0.17	U	0.19	U
Butyl benzyl phthalate	85-68-7	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.21	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U	-		0.17	U	0.19	U
Caprolactam	105-60-2	mg/kg	NS	NS	NS	NS							-		-		-		-		-		-		-		-		-	
Carbazole	86-74-8	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.21	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.061	J	-		0.17	U	0.19	U
Chrysene	218-01-9	mg/kg	1	4.9	47	1	0.1	U	0.11	U	0.12	U	0.08	J	0.1	U	0.046	J	0.044	J	0.04	J	7.9	E	8.9		0.11		0.11	U
Dibenzo(a,h)anthracene	53-70-3	mg/kg	0.33	0.33	3.7	1000	0.1	U	0.11	U	0.12	U	0.11	U	0.1	U	0.11	U	0.1	U	0.1	U	1.2		-		0.1	U	0.11	U
Dibenzofuran	132-64-9	mg/kg	2.1	18	180	110	0.18	U	0.18	U	0.21	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U	-		0.17	U	0.19	U
Diethyl phthalate	84-66-2	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.21	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U	-		0.17	U	0.19	U
Dimethyl phthalate	131-11-3	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.21	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U	-		0.17	U	0.19	U
Di-n-butyl phthalate	84-74-2	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.21	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U	-		0.17	U	0.19	U
Di-n-octyl phthalate	117-84-0	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.21	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U	-		0.17	U	0.19	U
Fluoranthene	206-44-0	mg/kg	85	100	500	1000	0.1	U	0.11	U	0.12	U	0.16		0.1	U	0.08	J	0.066	J	0.048	J	7.2	E	9.5		0.2		0.11	U
Fluorene	86-73-7	mg/kg	30	100	500	386	0.18	U	0.18	U	0.21	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.025	J	-		0.17	U	0.19	U
Hexachlorobenzene	118-74-1	mg/kg	0.33	0.33	1.8	3.2	0.1	U	0.11	U	0.12	U	0.11	U	0.1	U	0.11	U	0.1	U	0.1	U	0.1	U	-		0.1	U	0.11	U
Hexachlorobutadiene	87-68-3	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.21	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U	-		0.17	U	0.19	U
Hexachlorocyclopentadiene	77-47-4	mg/kg	NS	NS	NS	NS	0.5	U	0.51	U	0.6	U	0.51	U	0.49	U	0.51	U	0.49	U	0.49	U	0.5	U	-		0.5	U	0.54	U
Hexachloroethane	67-72-1	mg/kg	NS	NS	NS	NS	0.14	U	0.14	U	0.17	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	-		0.14	U	0.15	U
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0.5	1.4	37	6.6	0.14	U	0.14	U	0.17	U	0.05	J	0.14	U	0.04	J	0.026	J	0.14	U	4.3		-		0.07	J	0.15	U
Isophorone	78-59-1	mg/kg	NS	NS	NS	NS	0.16	U	0.16	U	0.19	U	0.16	U	0.15	U	0.16	U	0.15	U	0.16	U	0.16	U	-		0.16	U	0.17	U
Naphthalene	91-20-3	mg/kg	12	100	500	12	0.18	U	0.18	U	0.21	U	0.18	U	0.17	U	0.18	U	0.17	U	0.033	J	0.17	U	-		0.17	U	0.19	U
Nitrobenzene	98-95-3	mg/kg	0.08	1.8	8.9	0.08	0.16	U	0.16	U	0.19	U	0.16	U	0.15	U	0.16	U	0.15	U	0.16	U	0.16	U	-		0.16	U	0.17	U
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.21	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U	-		0.17	U	0.19	U
N-Nitrosodiphenylamine	86-30-6	mg/kg	NS	NS	NS	NS	0.14	U	0.14	U	0.17	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	-		0.14	U	0.15	U
Pentachlorophenol	87-86-5	mg/kg	0.8	1.3	6.9	0.8	0.14	U	0.14	U	0.17	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	-		0.14	U	0.15	U
Phenanthrene	85-01-8	mg/kg	1.1	4.9	47	1000	0.1	U	0.11	U	0.12	U	0.11		0.1	U	0.039	J	0.034	J	0.1	U	0.82		-		0.1		0.11	U
Phenol	108-95-2	mg/kg	0.33	100	500	0.33	0.18	U	0.18	U	0.21	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U	-		0.17	U	0.19	U
Pyrene	129-00-0	mg/kg	64	100	500	1000	0.1	U	0.11	U	0.12	U	0.14		0.1	U	0.07	J	0.06	J	0.048	J	6.3		-		0.17		0.11	U
Total TIC, Semi-Volatile	-	mg/kg	NS	NS	NS	NS							-		-		-		-		-		-		-		-		-	

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs

Concentration Exceeds NYSDEC RRUSCOs

Concentration Exceeds NYSDEC UUSCOs

Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

TABLE 5.2
SUMMARY OF SOIL SAMPLING RESULTS—SVOCs

SAMPLE ID:							SB-8 (3.5-4.0)		SB-8 (8.0-8.5)		SB-8 (11.0-11.5)		SB-8 (17.5-18.0)		SB-9 (1.5-2.0)		SB-9 (6.0-6.5)		SB-9 (13.0-13.5)		SB-9 (16.0-16.5)		SB-10 (4.0-4.5)		SB-10 (7.0-7.5)		SB-10 (13.5-14.0)		SB-10 (15.5-16.0)		SB-11 (16.0-16.5)		SB-12 (1.5-2.0)		SB-12 (5.5-6.0)		SB-12 (13.0-13.5)		SB-12 (18.0-18.5)	
LAB SAMPLE ID:							L2544282-04		L2542560-02		L2544282-05		L2544282-06		L2544282-01		L2544282-02		L2542560-03		L2544282-03		L2542560-04		L2544282-07		L2544282-08		L2544282-09		L2542560-05		L2542560-06		L2544282-13		L2544282-14		L2544282-15	
SAMPLE DATE:							7/15/2025		7/8/2025		7/15/2025		7/15/2025		7/15/2025		7/15/2025		7/8/2025		7/15/2025		7/8/2025		7/15/2025		7/15/2025		7/15/2025		7/8/2025		7/8/2025		7/15/2025		7/15/2025		7/15/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
SVOCs (SW846 8270E)																																									
1,1'-Biphenyl	92-52-4	mg/kg	NS	NS	NS	NS	0.47	U	0.41	U	0.4	U	0.4	U	0.41	U	0.41	U	0.44	U	0.41	U	0.45	U	0.46	U	0.41	U	0.44	U	0.46	U	0.42	U	0.44	U	0.4	U	0.44	U
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.2	U	0.2	U	0.18	U	0.19	U	0.2	U	0.18	U	0.19	U	0.18	U	0.19	U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.2	U	0.2	U	0.18	U	0.19	U	0.2	U	0.18	U	0.19	U	0.18	U	0.19	U
1,2-Dichlorobenzene	95-50-1	mg/kg	1.1	100	500	1.1	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.2	U	0.2	U	0.18	U	0.19	U	0.2	U	0.18	U	0.19	U	0.18	U	0.19	U
1,3-Dichlorobenzene	541-73-1	mg/kg	2.6	38	280	2.6	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.2	U	0.2	U	0.18	U	0.19	U	0.2	U	0.18	U	0.19	U	0.18	U	0.19	U
1,4-Dichlorobenzene	106-46-7	mg/kg	1.8	24	130	1.8	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.2	U	0.2	U	0.18	U	0.19	U	0.2	U	0.18	U	0.19	U	0.18	U	0.19	U
1,4-Dioxane	123-91-1	mg/kg	0.1	5.7	36	0.1	0.031	U	0.027	U	0.026	U	0.026	U	0.027	U	0.027	U	0.029	U	0.027	U	0.03	U	0.03	U	0.027	U	0.029	U	0.031	U	0.027	U	0.029	U	0.026	U	0.029	U
2,2'-Oxybis(1-chloropropane)	108-60-1	mg/kg	NS	NS	NS	NS	0.25	U	0.21	U	0.21	U	0.21	U	0.22	U	0.22	U	0.23	U	0.22	U	0.24	U	0.24	U	0.21	U	0.23	U	0.24	U	0.22	U	0.23	U	0.21	U	0.23	U
2,3,4,6-Tetrachlorophenol	58-90-2	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
2,4,5-Trichlorophenol	95-95-4	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.2	U	0.2	U	0.18	U	0.19	U	0.2	U	0.18	U	0.19	U	0.18	U	0.19	U
2,4,6-Trichlorophenol	88-06-2	mg/kg	NS	NS	NS	NS	0.12	U	0.11	U	0.11	U	0.1	U	0.11	U	0.11	U	0.12	U	0.11	U	0.12	U	0.12	U	0.11	U	0.11	U	0.12	U	0.11	U	0.12	U	0.11	U	0.12	U
2,4-Dichlorophenol	120-83-2	mg/kg	NS	NS	NS	NS	0.18	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.17	U	0.16	U	0.18	U	0.18	U	0.16	U	0.17	U	0.18	U	0.16	U	0.17	U	0.16	U	0.17	U
2,4-Dimethylphenol	105-67-9	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.2	U	0.2	U	0.18	U	0.19	U	0.2	U	0.18	U	0.19	U	0.18	U	0.19	U
2,4-Dinitrophenol	51-28-5	mg/kg	NS	NS	NS	NS	0.99	U	0.86	U	0.85	U	0.84	U	0.87	U	0.87	U	0.93	U	0.86	U	0.95	U	0.97	U	0.86	U	0.92	U	0.98	U	0.88	U	0.92	U	0.85	U	0.93	U
2,4-Dinitrotoluene	121-14-2	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.2	U	0.2	U	0.18	U	0.19	U	0.2	U	0.18	U	0.19	U	0.18	U	0.19	U
2,6-Dinitrotoluene	606-20-2	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.2	U	0.2	U	0.18	U	0.19	U	0.2	U	0.18	U	0.19	U	0.18	U	0.19	U
2-Chloronaphthalene	91-58-7	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.2	U	0.2	U	0.18	U	0.19	U	0.2	U	0.18	U	0.19	U	0.18	U	0.19	U
2-Chlorophenol	95-57-8	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.2	U	0.2	U	0.18	U	0.19	U	0.2	U	0.18	U	0.19	U	0.18	U	0.19	U
2-Methylnaphthalene	91-57-6	mg/kg	NS	NS	NS	NS	0.25	U	0.21	U	0.21	U	0.21	U	0.22	U	0.22	U	0.23	U	0.22	U	0.24	U	0.24	U	0.21	U	0.23	U	0.24	U	0.22	U	0.23	U	0.21	U	0.23	U
2-Methylphenol	95-48-7	mg/kg	0.33	100	500	0.33	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.2	U	0.2	U	0.18	U	0.19	U	0.2	U	0.18	U	0.19	U	0.18	U	0.19	U
2-Nitroaniline	88-74-4	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.2	U	0.2	U	0.18	U	0.19	U	0.2	U	0.18	U	0.19	U	0.18	U	0.19	U
2-Nitrophenol	88-75-5	mg/kg	NS	NS	NS	NS	0.44	U	0.38	U	0.38	U	0.38	U	0.39	U	0.39	U	0.42	U	0.39	U	0.43	U	0.44	U	0.38	U	0.41	U	0.44	U	0.4	U	0.42	U	0.38	U	0.42	U
3&4-Methylphenol	108-39-4/106-44-5	mg/kg	NS	NS	NS	NS	0.3	U	0.26	U	0.25	U	0.25	U	0.26	U	0.26	U	0.28	U	0.26	U	0.28	U	0.29	U	0.26	U	0.28	U	0.29	U	0.26	U	0.28	U	0.26	U	0.28	U
3,3'-Dichlorobenzidine	91-94-1	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.2	U	0.2	U	0.18	U	0.19	U	0.2	U	0.18	U	0.19	U	0.18	U	0.19	U
3-Nitroaniline	99-09-2	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.2	U	0.2	U	0.18	U	0.19	U	0.2	U	0.18	U	0.19	U	0.18	U	0.19	U
4,6-Dinitro-o-cresol	534-52-1	mg/kg	NS	NS	NS	NS	0.53	U	0.46	U	0.46	U	0.46	U	0.47	U	0.47	U	0.5	U	0.47	U	0.51	U	0.53	U	0.46	U	0.5	U	0.53	U	0.48	U	0.5	U	0.46	U	0.5	U
4-Bromophenyl phenyl ether	101-55-3	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.2	U	0.2	U	0.18	U	0.19	U	0.2	U	0.18	U	0.19	U	0.18	U	0.19	U
4-Chloro-3-methyl phenol	59-50-7	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.2	U	0.2	U	0.18	U	0.19	U	0.2	U	0.18	U	0.19	U	0.18	U	0.19	U
4-Chloroaniline	106-47-8	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.2	U	0.2	U	0.18	U	0.19	U	0.2	U	0.18	U	0.19	U	0.18	U	0.19	U
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.2	U	0.2	U	0.18	U	0.19	U	0.2	U	0.18	U	0.19	U	0.18	U	0.19	U
4-Nitroaniline	100-01-6	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.2	U	0.2	U	0.18	U	0.19	U	0.2	U	0.18	U	0.19	U	0.18	U	0.19	U
4-Nitrophenol	100-02-7	mg/kg	NS	NS	NS	NS	0.29	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.27	U	0.25	U	0.28	U	0.28	U	0.25	U	0.27	U	0.28	U	0.26	U	0.27	U	0.25	U	0.27	U
Acenaphthene	83-32-9	mg/kg	20	100	500	98	0.16	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.15	U	0.14	U	0.16	U	0.16	U	0.14	U	0.15	U	0.16	U	0.15	U	0.15	U	0.14	U	0.15	U
Acenaphthylene	208-96-8	mg/kg	100	100	500	365	0.16	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.15	U	0.14	U	0.11	J	0.16	U	0.14	U	0.15	U	0.16	U	0.15	U	0.15	U	0.14	U	0.15	U
Acetophenone	98-86-2	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.2	U	0.2	U	0.18	U	0.19	U	0.2	U	0.18	U	0.19	U	0.18	U	0.19	U
Anthracene	120-12-7	mg/kg	100	100	500	1000	0.12	U	0.11	U	0.11	U	0.1	U	0.11	U	0.11	U	0.12	U	0.11	U	0.055	J	0.12	U	0.11	U	0.11	U	0.12	U	0.11	U	0.12	U	0.11	U	0.12	U
Atrazine	1912-24-9	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Benzaldehyde	100-52-7	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Benzo(a)anthracene	56-55-3	mg/kg	1	1.4	37	1	0.12	U	0.11	U	0.11	U	0.1	U	0.11	U	0.11	U	0.12	U	0.11	U	0.43		0.12	U	0.11	U	0.11	U	0.12	U	0.12		0.12	U	0.043	J	0.12	U
Benzo(a)pyrene	50-32-8	mg/kg	1	1	3.7	22	0.16	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.15	U	0.14	U	0.42		0.16	U	0.14	U	0.15	U	0.16	U	0.13	J	0.15	U	0.14	U	0.15	U
Benzo(b)fluoranthene	205-99-2	mg/kg	1	1.4	37	2.1	0.12	U	0.11	U	0.11	U	0.1	U	0.11	U	0.11	U	0.12	U	0.11	U	0.64		0.12	U	0.11	U	0.11	U	0.12	U	0.16		0.12	U	0.043	J	0.12	U
Benzo(g,h,i)perylene	191-24-2	mg/kg	0.64	4.9	47	1000	0.16	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.15	U	0.14	U	0.28		0.16	U	0.14	U	0.15	U	0.16	U	0.088	J	0.15	U	0.14	U	0.15	U
Benzo(k)fluoranthene	207-08-9	mg/kg	0.8	4.9	47	2	0.12	U	0.11	U	0.11	U	0.1	U	0.11	U	0.11	U	0.12	U	0.11	U	0.22		0.12	U	0.11	U	0.11	U	0.12	U	0.043	J	0.12	U	0.11	U	0.12	U
Benzoic Acid	65-85-0	mg/kg	NS	NS	NS	NS	0.67	U	0.58	U	0.57	U	0.57	U	0.59	U	0.59	U	0.63	U	0.58	U	0.64	U	0.66	U	0.58	U	0.62	U	0.66	U	0.59	U	0.62	U	0.57	U	0.63	U
Benzyl Alcohol	100-51-6	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.2	U	0.2	U	0.18	U	0.19	U	0.2	U	0.18	U	0.19	U	0.18	U	0.19	U
bis(2-Chloroethoxy)methane	111-91-1	mg/kg	NS	NS	NS	NS	0.22	U	0.19	U	0.19	U	0.19	U	0.2	U	0.2	U	0.21	U	0.19	U	0.21	U	0.22	U	0.19	U	0.21	U	0.22	U	0.2	U	0.21	U	0.19	U	0.21	U
bis(2-Chloroethyl)ether	111-44-4	mg/kg	NS	NS	NS	NS	0.18	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.17	U	0.16	U	0.18	U	0.18	U	0.16	U	0.17	U	0.18	U	0.16	U	0.17	U	0.16	U	0.17	U
bis(2-Ethylhexyl)phthalate	117-81-7	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.2	U	0.2	U	0.18	U	0.19	U	0.2	U	0.18	U	0.19	U	0.18	U	0.19	U
Butyl benzyl phthalate	85-68-7	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.2	U	0.2	U	0.18	U	0.19	U	0.2	U	0.18	U	0.19	U	0.18	U	0.19	U
Caprolactam	105-60-2	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Carbazole	86-74-8	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.2	U	0.2	U	0.18	U	0.19	U	0.2	U	0.18	U	0.19	U	0.18	U	0.19	U
Chrysene	218-01-9	mg/kg	1	4.9	47	1	0.12	U	0.11	U	0.11	U	0.1	U	0.11	U	0.11	U	0.12	U	0.11	U	0.4		0.12	U	0.11	U	0.11	U	0.12	U	0.1	J	0.12	U	0.036	J	0.12	U
Dibenzo(a,h)anthracene	53-70-3	mg/kg	0.33	0.33	3.7	1000	0.12	U	0.11	U	0.11	U	0.1	U	0.11	U	0.11	U	0.12	U	0.11	U	0.07	J	0.12	U	0.11	U	0.11	U	0.12	U	0.11	U	0.12	U	0.11	U	0.12	U
Dibenzofuran	132-64-9	mg/kg	2.1	18	180	110	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.2	U	0.2	U	0.18	U	0.19	U	0.2	U	0.18	U	0.19	U	0.18	U	0.19	U
Diethyl phthalate	84-66-2	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.2	U	0.2	U	0.18	U	0.19	U	0.2	U	0.18	U	0.19	U	0.18	U	0.19	U
Dimethyl phthalate	131-11-3	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.2	U	0.2	U	0.18	U	0.19	U	0.2	U	0.18	U	0.19	U	0.18	U	0.19	U
Di-n-butyl phthalate	84-74-2	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.2	U	0.2	U	0.18	U	0.19	U	0.2	U	0.18	U	0.19	U	0.18	U	0.19	U
Di-n-octyl phthalate	117-84-0	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.2	U	0.2	U	0.18	U	0.19	U	0.2	U	0.18	U	0.19	U	0.18	U	0.19	U
Fluoranthene	206-44-0	mg/kg	85	100	500	1000	0.12	U	0.11	U	0.11	U	0.1	U	0.11	U	0.11	U	0.12	U	0.11	U	0.65		0.12	U	0.11	U	0.11	U	0.12	U	0.16		0.12	U	0.058	J	0.12	U
Fluorene	86-73-7	mg/kg	30	100	500	386	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.2	U	0.2	U	0.18	U	0.19	U	0.2	U	0.18	U	0.19	U	0.18	U	0.19	U
Hexachlorobenzene	118-74-1	mg/kg	0.33	0.33	1.8	3.2	0.12	U	0.11	U	0.11	U	0.1	U	0.11	U	0.11	U	0.12	U	0.11	U	0.12	U	0.12	U	0.11	U	0.11	U	0.12	U	0.11	U	0.12	U	0.11	U	0.12	U
Hexachlorobutadiene	87-68-3	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.2	U	0.2	U	0.18	U	0.19	U	0.2	U	0.18	U	0.19	U	0.18	U	0.19	U
Hexachlorocyclopentadiene	77-47-4	mg/kg	NS	NS	NS	NS	0.59	U	0.51	U	0.5	U	0.5	U	0.52	U	0.52	U	0.55	U	0.51	U	0.56	U	0.58	U	0.51	U	0.55	U	0.58	U	0.52	U	0.55	U	0.51	U	0.55	U
Hexachloroethane	67-72-1	mg/kg	NS	NS	NS	NS	0.16	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.15	U	0.14	U	0.16	U	0.16	U	0.14	U	0.15	U	0.16	U	0.15	U	0.15	U	0.14	U	0.15	U
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0.5	1.4	37	6.6	0.16	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.15	U	0.14	U	0.32		0.16	U	0.14	U	0.15	U	0.16	U	0.083	J	0.15	U	0.14	U	0.15	U
Isophorone	78-59-1	mg/kg	NS	NS	NS	NS	0.18	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.17	U	0.16	U	0.18	U	0.18	U	0.16	U	0.17	U	0.18	U	0.16	U	0.17	U	0.16	U	0.17	U
Naphthalene	91-20-3	mg/kg	12	100	500	12	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.2	U	0.2	U	0.18	U	0.19	U	0.2	U	0.18	U	0.19	U	0.18	U	0.19	U
Nitrobenzene	98-95-3	mg/kg	0.08	1.8	8.9	0.08	0.18	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.17	U	0.16	U	0.18	U	0.18	U	0.16	U	0.17	U	0.18	U	0.16	U	0.17	U	0.16	U	0.17	U
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.2	U	0.2	U	0.18	U	0.19	U	0.2	U	0.18	U	0.19	U	0.18	U	0.19	U
N-Nitrosodiphenylamine	86-30-6	mg/kg	NS	NS	NS	NS	0.16	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.15	U	0.14	U	0.16	U	0.16	U	0.14	U	0.15	U	0.16	U	0.15	U	0.15	U	0.14	U	0.15	U
Pentachlorophenol	87-86-5	mg/kg	0.8	1.3	6.9	0.8	0.16	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.15	U	0.14	U	0.16	U	0.16	U	0.14	U	0.15	U	0.16	U	0.15	U	0.15	U	0.14	U	0.15	U
Phenanthrene	85-01-8	mg/kg	1.1	4.9	47	1000	0.12	U	0.11	U	0.11	U	0.1	U	0.11	U	0.11	U	0.12	U	0.11	U	0.14		0.12	U	0.11	U	0.11	U	0.12	U	0.041	J	0.12	U	0.035	J	0.12	U
Phenol	108-95-2	mg/kg	0.33	100	500	0.33	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.2	U	0.2	U	0.18	U	0.19	U	0.2	U	0.18	U	0.19	U	0.18	U	0.19	U
Pyrene	129-00-0	mg/kg	64	100	500	1000	0.12	U	0.11	U	0.11	U	0.1	U	0.11	U	0.11	U	0.12	U	0.11	U	0.47		0.12	U	0.11	U	0.11	U	0.12	U	0.17		0.12	U	0.05	J	0.12	U
Total TIC, Semi-Volatile	-	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs

Concentration Exceeds NYSDEC RRUSCOs

Concentration Exceeds NYSDEC UUSCOs

Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

TABLE 5.2
SUMMARY OF SOIL SAMPLING RESULTS—SVOCs

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-13 (5.0-5.5)		SB-14 (3.5-4.0)		SB-15 (2.5-3.0)		SB-15 (6.0-6.5)		SB-15 (12.0-12.5)		SB-15 (16.5-17.0)		SB-16 (2.0-2.5)		SB-16 (5.0-5.5)		SB-17 (3.0-3.5)		SB-18 (2.0-2.5)		SB-18 (6.5-7.0)		SB-19 (2.5-3.0)		SB-20 (3.0-3.5)		SB-21 (4.0-4.5)		SB-21 (4.0-4.5)		SB-21 (7.0-7.5)		SB-21 (13.0-13.5)	
LAB SAMPLE ID:							L2542974-01		L2542974-02		L2544282-10		L2542974-03		L2544282-11		L2544282-12		L2542974-04		L2543726-04		L2542974-05		L2543250-01		L2543726-05		L2543250-02		L2543250-03		L2543250-04		L2543250-04 R1		L2543726-06		L2543726-07	
SAMPLE DATE:							7/9/2025		7/9/2025		7/15/2025		7/9/2025		7/15/2025		7/15/2025		7/9/2025		7/11/2025		7/9/2025		7/10/2025		7/11/2025		7/10/2025		7/10/2025		7/10/2025		7/11/2025		7/11/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
SVOCs (SW846 8270E)																																									
1,1'-Biphenyl	92-52-4	mg/kg	NS	NS	NS	NS	2.1	U	0.053	J	0.44	U	0.43	U	0.44	U	0.4	U	0.43	U	0.44	U	0.41	U	0.45	U	0.42	U	0.18	J	0.4	U	0.4	U	0.4	U	0.39	U
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	NS	NS	NS	NS	0.94	U	0.2	U	0.2	U	0.19	U	0.19	U	0.18	U	0.19	U	0.19	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.17	U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	NS	NS	NS	NS	0.94	U	0.2	U	0.2	U	0.19	U	0.19	U	0.18	U	0.19	U	0.19	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.17	U
1,2-Dichlorobenzene	95-50-1	mg/kg	1.1	100	500	1.1	0.94	U	0.2	U	0.2	U	0.19	U	0.19	U	0.18	U	0.19	U	0.19	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.17	U
1,3-Dichlorobenzene	541-73-1	mg/kg	2.6	38	280	2.6	0.94	U	0.2	U	0.2	U	0.19	U	0.19	U	0.18	U	0.19	U	0.19	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.17	U
1,4-Dichlorobenzene	106-46-7	mg/kg	1.8	24	130	1.8	0.94	U	0.2	U	0.2	U	0.19	U	0.19	U	0.18	U	0.19	U	0.19	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.17	U
1,4-Dioxane	123-91-1	mg/kg	0.1	5.7	36	0.1	0.14	U	0.03	U	0.029	U	0.028	U	0.029	U	0.026	U	0.028	U	0.029	U	0.027	U	0.03	U	0.028	U	0.027	U	0.027	U	0.026	U	0.026	U	0.026	U	0.026	U
2,2'-Oxybis(1-chloropropane)	108-60-1	mg/kg	NS	NS	NS	NS	1.1	U	0.24	U	0.23	U	0.23	U	0.23	U	0.21	U	0.23	U	0.23	U	0.22	U	0.24	U	0.22	U	0.22	U	0.21	U	0.21	U	0.21	U	0.2	U
2,3,4,6-Tetrachlorophenol	58-90-2	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
2,4,5-Trichlorophenol	95-95-4	mg/kg	NS	NS	NS	NS	0.94	U	0.2	U	0.2	U	0.19	U	0.19	U	0.18	U	0.19	U	0.19	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.17	U
2,4,6-Trichlorophenol	88-06-2	mg/kg	NS	NS	NS	NS	0.56	U	0.12	U	0.12	U	0.11	U	0.12	U	0.1	U	0.11	U	0.12	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U	0.11	U	0.1	U	0.11	U	0.1	U
2,4-Dichlorophenol	120-83-2	mg/kg	NS	NS	NS	NS	0.85	U	0.18	U	0.18	U	0.17	U	0.17	U	0.16	U	0.17	U	0.17	U	0.16	U	0.18	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.15	U
2,4-Dimethylphenol	105-67-9	mg/kg	NS	NS	NS	NS	0.94	U	0.2	U	0.2	U	0.19	U	0.19	U	0.18	U	0.19	U	0.19	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.17	U
2,4-Dinitrophenol	51-28-5	mg/kg	NS	NS	NS	NS	4.5	U	0.96	U	0.94	U	0.9	U	0.92	U	0.84	U	0.91	U	0.93	U	0.86	U	0.96	U	0.88	U	0.88	U	0.85	U	0.85	U	0.84	U	0.85	U	0.82	U
2,4-Dinitrotoluene	121-14-2	mg/kg	NS	NS	NS	NS	0.94	U	0.2	U	0.2	U	0.19	U	0.19	U	0.18	U	0.19	U	0.19	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.17	U
2,6-Dinitrotoluene	606-20-2	mg/kg	NS	NS	NS	NS	0.94	U	0.2	U	0.2	U	0.19	U	0.19	U	0.18	U	0.19	U	0.19	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.17	U
2-Chloronaphthalene	91-58-7	mg/kg	NS	NS	NS	NS	0.94	U	0.2	U	0.2	U	0.19	U	0.19	U	0.18	U	0.19	U	0.19	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.17	U
2-Chlorophenol	95-57-8	mg/kg	NS	NS	NS	NS	0.94	U	0.2	U	0.2	U	0.19	U	0.19	U	0.18	U	0.19	U	0.19	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.17	U
2-Methylnaphthalene	91-57-6	mg/kg	NS	NS	NS	NS	1.1	U	0.18	J	0.23	U	0.23	U	0.23	U	0.21	U	0.23	U	0.23	U	0.22	U	0.89		0.22	U	0.22	U	0.21	U	0.21	U	0.21	U	0.21	U	0.2	U
2-Methylphenol	95-48-7	mg/kg	0.33	100	500	0.33	0.94	U	0.033	J	0.2	U	0.19	U	0.19	U	0.18	U	0.19	U	0.19	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.17	U
2-Nitroaniline	88-74-4	mg/kg	NS	NS	NS	NS	0.94	U	0.2	U	0.2	U	0.19	U	0.19	U	0.18	U	0.19	U	0.19	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.17	U
2-Nitrophenol	88-75-5	mg/kg	NS	NS	NS	NS	2	U	0.43	U	0.42	U	0.41	U	0.41	U	0.38	U	0.41	U	0.42	U	0.39	U	0.43	U	0.4	U	0.39	U	0.38	U	0.38	U	0.38	U	0.38	U	0.37	U
3&4-Methylphenol	108-39-4/106-44-5	mg/kg	NS	NS	NS	NS	1.4	U	0.13	J	0.28	U	0.27	U	0.28	U	0.25	U	0.27	U	0.28	U	0.26	U	0.29	U	0.26	U	0.26	U	0.26	U	0.25	U	0.25	U	0.25	U	0.25	U
3,3'-Dichlorobenzidine	91-94-1	mg/kg	NS	NS	NS	NS	0.94	U	0.2	U	0.2	U	0.19	U	0.19	U	0.18	U	0.19	U	0.19	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.17	U
3-Nitroaniline	99-09-2	mg/kg	NS	NS	NS	NS	0.94	U	0.2	U	0.2	U	0.19	U	0.19	U	0.18	U	0.19	U	0.19	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.17	U
4,6-Dinitro-o-cresol	534-52-1	mg/kg	NS	NS	NS	NS	2.4	U	0.52	U	0.51	U	0.49	U	0.5	U	0.46	U	0.49	U	0.5	U	0.47	U	0.52	U	0.48	U	0.47	U	0.46	U	0.45	U	0.46	U	0.44	U
4-Bromophenyl phenyl ether	101-55-3	mg/kg	NS	NS	NS	NS	0.94	U	0.2	U	0.2	U	0.19	U	0.19	U	0.18	U	0.19	U	0.19	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.17	U
4-Chloro-3-methyl phenol	59-50-7	mg/kg	NS	NS	NS	NS	0.94	U	0.2	U	0.2	U	0.19	U	0.19	U	0.18	U	0.19	U	0.19	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.17	U
4-Chloroaniline	106-47-8	mg/kg	NS	NS	NS	NS	0.94	U	0.2	U	0.2	U	0.19	U	0.19	U	0.18	U	0.19	U	0.19	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.17	U
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	NS	NS	NS	NS	0.94	U	0.2	U	0.2	U	0.19	U	0.19	U	0.18	U	0.19	U	0.19	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.17	U
4-Nitroaniline	100-01-6	mg/kg	NS	NS	NS	NS	0.94	U	0.2	U	0.2	U	0.19	U	0.19	U	0.18	U	0.19	U	0.19	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.17	U
4-Nitrophenol	100-02-7	mg/kg	NS	NS	NS	NS	1.3	U	0.28	U	0.27	U	0.26	U	0.27	U	0.24	U	0.27	U	0.27	U	0.25	U	0.28	U	0.26	U	0.26	U	0.25	U	0.25	U	0.24	U	0.25	U	0.24	U
Acenaphthene	83-32-9	mg/kg	20	100	500	98	0.75	U	0.082	J	0.16	U	0.048	J	0.15	U	0.14	U	0.15	U	0.16	U	0.14	U	0.25		0.15	U	0.14		0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
Acenaphthylene	208-96-8	mg/kg	100	100	500	365	0.17	J	1.8		0.16	U	0.054	J	0.15	U	0.14	U	0.15	U	0.16	U	0.14	U	0.16	U	0.15	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
Acetophenone	98-86-2	mg/kg	NS	NS	NS	NS	0.94	U	0.2	U	0.2	U	0.19	U	0.19	U	0.18	U	0.19	U	0.19	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.17	U
Anthracene	120-12-7	mg/kg	100	100	500	1000	0.56	U	0.8		0.12	U	0.11		0.12	U	0.1	U	0.11	U	0.12	U	0.11	U	0.18		0.11	U	0.14		0.11	U	0.11	U	0.1	U	0.11	U	0.1	U
Atrazine	1912-24-9	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Benzaldehyde	100-52-7	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Benzo(a)anthracene	56-55-3	mg/kg	1	1.4	37	1	0.51	J	2.6		0.12	U	0.3		0.12	U	0.1	U	0.11	U	0.12	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U	0.11	U	0.1	U	0.11	U	0.1	U
Benzo(a)pyrene	50-32-8	mg/kg	1	1	3.7	22	0.5	J	3.2		0.16	U	0.3		0.15	U	0.14	U	0.15	U	0.16	U	0.14	U	0.16	U	0.15	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
Benzo(b)fluoranthene	205-99-2	mg/kg	1	1.4	37	2.1	0.73		4.7		0.12	U	0.39		0.12	U	0.1	U	0.11	U	0.12	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U	0.11	U	0.1	U	0.11	U	0.1	U
Benzo(g,h,i)perylene	191-24-2	mg/kg	0.64	4.9	47	1000	0.39	J	2.4		0.16	U	0.19		0.15	U	0.14	U	0.15	U	0.16	U	0.14	U	0.16	U	0.15	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
Benzo(k)fluoranthene	207-08-9	mg/kg	0.8	4.9	47	2	0.27	J	1.4		0.12	U	0.13		0.12	U	0.1	U	0.11	U	0.12	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U	0.11	U	0.1	U	0.11	U	0.1	U
Benzoic Acid	65-85-0	mg/kg	NS	NS	NS	NS	3	U	0.65	U	0.63	U	0.61	U	0.62	U	0.57	U	0.62	U	0.63	U	0.58	U	0.65	U	0.59	U	0.59	U	0.58	U	0.57	U	0.56	U	0.57	U	0.55	U
Benzyl Alcohol	100-51-6	mg/kg	NS	NS	NS	NS	0.94	U	0.2	U	0.2	U	0.19	U	0.19	U	0.18	U	0.19	U	0.19	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.17	U
bis(2-Chloroethoxy)methane	111-91-1	mg/kg	NS	NS	NS	NS	1	U	0.22	U	0.21	U	0.2	U	0.21	U	0.19	U	0.2	U	0.21	U	0.19	U	0.22	U	0.2	U	0.2	U	0.19	U	0.19	U	0.19	U	0.19	U	0.18	U
bis(2-Chloroethyl)ether	111-44-4	mg/kg	NS	NS	NS	NS	0.85	U	0.18	U	0.18	U	0.17	U	0.17	U	0.16	U	0.17	U	0.17	U	0.16	U	0.18	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.15	U
bis(2-Ethylhexyl)phthalate	117-81-7	mg/kg	NS	NS	NS	NS	0.94	U	0.2	U	0.2	U	0.19	U	0.19	U	0.18	U	0.19	U	0.19	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.17	U
Butyl benzyl phthalate	85-68-7	mg/kg	NS	NS	NS	NS	0.94	U	0.2	U	0.2	U	0.19	U	0.19	U	0.18	U	0.19	U	0.19	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.17	U
Caprolactam	105-60-2	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Carbazole	86-74-8	mg/kg	NS	NS	NS	NS	0.16	J	0.41		0.2	U	0.046	J	0.19	U	0.18	U	0.19	U	0.19	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.17	U
Chrysene	218-01-9	mg/kg	1	4.9	47	1	0.82		4		0.12	U	0.3		0.12	U	0.1	U	0.11	U	0.12	U	0.11	U	0.12	U	0.11	U	0.02	J	0.11	U	0.11	U	0.1	U	0.11	U	0.1	U
Dibenzo(a,h)anthracene	53-70-3	mg/kg	0.33	0.33	3.7	1000	0.56	U	0.58		0.12	U	0.051	J	0.12	U	0.1	U	0.11	U	0.12	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U	0.11	U	0.1	U	0.11	U	0.1	U
Dibenzofuran	132-64-9	mg/kg	2.1	18	180	110	0.11	J	0.31		0.2	U	0.026	J	0.19	U	0.18	U	0.19	U	0.19	U	0.18	U	0.12	J	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.17	U
Diethyl phthalate	84-66-2	mg/kg	NS	NS	NS	NS	0.94	U	0.2	U	0.2	U	0.19	U	0.19	U	0.18	U	0.19	U	0.19	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.17	U
Dimethyl phthalate	131-11-3	mg/kg	NS	NS	NS	NS	0.94	U	0.2	U	0.2	U	0.19	U	0.19	U	0.18	U	0.19	U	0.19	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.17	U
Di-n-butyl phthalate	84-74-2	mg/kg	NS	NS	NS	NS	0.94	U	0.2	U	0.2	U	0.072	J	0.19	U	0.18	U	0.19	U	0.19	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.17	U
Di-n-octyl phthalate	117-84-0	mg/kg	NS	NS	NS	NS	0.94	U	0.2	U	0.2	U	0.19	U	0.19	U	0.18	U	0.19	U	0.19	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.17	U
Fluoranthene	206-44-0	mg/kg	85	100	500	1000	1.7		6.4		0.12	U	0.59		0.12	U	0.1	U	0.11	U	0.12	U	0.11	U	0.038	J	0.11	U	0.044	J	0.11	U	0.11	U	0.1	U	0.11	U	0.1	U
Fluorene	86-73-7	mg/kg	30	100	500	386	0.94	U	0.26		0.2	U	0.042	J	0.19	U	0.18	U	0.19	U	0.19	U	0.18	U	0.38		0.18	U	0.082	J	0.18	U	0.18	U	0.17	U	0.18	U	0.17	U
Hexachlorobenzene	118-74-1	mg/kg	0.33	0.33	1.8	3.2	0.56	U	0.12	U	0.12	U	0.11	U	0.12	U	0.1	U	0.11	U	0.12	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U	0.11	U	0.1	U	0.11	U	0.1	U
Hexachlorobutadiene	87-68-3	mg/kg	NS	NS	NS	NS	0.94	U	0.2	U	0.2	U	0.19	U	0.19	U	0.18	U	0.19	U	0.19	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.17	U
Hexachlorocyclopentadiene	77-47-4	mg/kg	NS	NS	NS	NS	2.7	U	0.57	U	0.56	U	0.54	U	0.55	U	0.5	U	0.54	U	0.55	U	0.52	U	0.57	U	0.52	U	0.52	U	0.51	U	0.5	U	0.5	U	0.5	U	0.49	U
Hexachloroethane	67-72-1	mg/kg	NS	NS	NS	NS	0.75	U	0.16	U	0.16	U	0.15	U	0.15	U	0.14	U	0.15	U	0.16	U	0.14	U	0.16	U	0.15	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0.5	1.4	37	6.6	0.39	J	2.5		0.16	U	0.21		0.15	U	0.14	U	0.15	U	0.16	U	0.14	U	0.16	U	0.15	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
Isophorone	78-59-1	mg/kg	NS	NS	NS	NS	0.85	U	0.18	U	0.18	U	0.17	U	0.17	U	0.16	U	0.17	U	0.17	U	0.16	U	0.18	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.15	U
Naphthalene	91-20-3	mg/kg	12	100	500	12	0.94	U	0.21		0.2	U	0.036	J	0.19	U	0.18	U	0.19	U	0.19	U	0.18	U	0.13	J	0.18	U	0.042	J	0.18	U	0.18	U	0.17	U	0.18	U	0.17	U
Nitrobenzene	98-95-3	mg/kg	0.08	1.8	8.9	0.08	0.85	U	0.18	U	0.18	U	0.17	U	0.17	U	0.16	U	0.17	U	0.17	U	0.16	U	0.18	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.15	U
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	NS	NS	NS	NS	0.94	U	0.2	U	0.2	U	0.19	U	0.19	U	0.18	U	0.19	U	0.19	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.17	U
N-Nitrosodiphenylamine	86-30-6	mg/kg	NS	NS	NS	NS	0.75	U	0.16	U	0.16	U	0.15	U	0.15	U	0.14	U	0.15	U	0.16	U	0.14	U	0.16	U	0.15	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
Pentachlorophenol	87-86-5	mg/kg	0.8	1.3	6.9	0.8	0.75	U	0.16	U	0.16	U	0.15	U	0.15	U	0.14	U	0.15	U	0.16	U	0.14	U	0.16	U	0.15	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
Phenanthrene	85-01-8	mg/kg	1.1	4.9	47	1000	1.8		6.2		0.12	U	0.39		0.12	U	0.1	U	0.11	U	0.12	U	0.11	U	0.9		0.11	U	0.86		0.11	U	0.11	U	0.027	J	0.11	U	0.1	U
Phenol	108-95-2	mg/kg	0.33	100	500	0.33	0.94	U	0.06	J	0.2	U	0.19	U	0.19	U	0.18	U	0.19	U	0.19	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.17	U
Pyrene	129-00-0	mg/kg	64	100	500	1000	1.4		5.3		0.12	U	0.49		0.12	U	0.1	U	0.11	U	0.12	U	0.11	U	0.15		0.11	U	0.18		0.021	J	0.019	J	0.1	U	0.11	U	0.1	U
Total TIC, Semi-Volatile	-	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs

Concentration Exceeds NYSDEC RRUSCOs

Concentration Exceeds NYSDEC UUSCOs

Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

TABLE 5.2
SUMMARY OF SOIL SAMPLING RESULTS—SVOCs

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-22 (1.0-1.5)		SB-22 (5.5-6.0)		SB-22 (11.5-12.0)		SB-23 (1-1.5)		SB-23 (5.5-6)		SB-24 (3.5-4)		SB-24 (7-7.5)		SB-25 (4.5-5)		SB-25 (7.5-8)		SB-25 (11-11.5)		SB-26 (4-4.5)		SB-26 (6.5-7)		SB-26 (12-12.5)		SB-27 (3-3.5)		SB-27 (7-7.5)		SB-27 (10-10.5)	
LAB SAMPLE ID:							L2543726-01		L2543726-02		L2543726-03		L2547611-04		L2547611-03		L2547611-08		L2547611-09		L2547611-07		L2547611-05		L2547611-06		L2547764-15		L2547764-16		L2547764-17		L2547764-12		L2547764-14		L2547764-13	
SAMPLE DATE:							7/11/2025		7/11/2025		7/11/2025		7/29/2025		7/29/2025		7/29/2025		7/29/2025		7/29/2025		7/29/2025		7/29/2025		7/30/2025		7/30/2025		7/30/2025		7/30/2025		7/30/2025		7/30/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
SVOCs (SW846 8270E)																																							
1,1'-Biphenyl	92-52-4	mg/kg	NS	NS	NS	NS	0.4	U	0.41	U	0.46	U	0.43	U	0.44	U	0.44	U	0.41	U	0.42	U	0.42	U	0.42	U	0.46	U	0.43	U	0.47	U	0.44	U	0.055	J	0.41	U
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	NS	NS	NS	NS	0.17	U	0.18	U	0.2	U	0.19	U	0.19	U	0.19	U	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	NS	NS	NS	NS	0.17	U	0.18	U	0.2	U	0.19	U	0.19	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U
1,2-Dichlorobenzene	95-50-1	mg/kg	1.1	100	500	1.1	0.17	U	0.18	U	0.2	U	0.19	U	0.19	U	0.19	U	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U
1,3-Dichlorobenzene	541-73-1	mg/kg	2.6	38	280	2.6	0.17	U	0.18	U	0.2	U	0.19	U	0.19	U	0.19	U	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U
1,4-Dichlorobenzene	106-46-7	mg/kg	1.8	24	130	1.8	0.17	U	0.18	U	0.2	U	0.19	U	0.19	U	0.19	U	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U
1,4-Dioxane	123-91-1	mg/kg	0.1	5.7	36	0.1	0.026	U	0.027	U	0.03	U	0.028	U	0.029	U	0.029	U	0.027	U	0.028	U	0.027	U	0.028	U	0.03	U	0.028	U	0.031	U	0.029	U	0.029	U	0.027	U
2,2'-Oxybis(1-chloropropane)	108-60-1	mg/kg	NS	NS	NS	NS	0.21	U	0.22	U	0.24	U	0.23	U	0.23	U	0.23	U	0.21	U	0.22	U	0.22	U	0.22	U	0.24	U	0.22	U	0.25	U	0.23	U	0.24	U	0.22	U
2,3,4,6-Tetrachlorophenol	58-90-2	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
2,4,5-Trichlorophenol	95-95-4	mg/kg	NS	NS	NS	NS	0.17	U	0.18	U	0.2	U	0.19	U	0.19	U	0.19	U	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U
2,4,6-Trichlorophenol	88-06-2	mg/kg	NS	NS	NS	NS	0.1	U	0.11	U	0.12	U	0.11	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U	0.11	U	0.12	U	0.11	U	0.12	U	0.12	U	0.12	U	0.11	U
2,4-Dichlorophenol	120-83-2	mg/kg	NS	NS	NS	NS	0.16	U	0.16	U	0.18	U	0.17	U	0.17	U	0.17	U	0.16	U	0.17	U	0.16	U	0.17	U	0.18	U	0.17	U	0.18	U	0.18	U	0.18	U	0.16	U
2,4-Dimethylphenol	105-67-9	mg/kg	NS	NS	NS	NS	0.17	U	0.18	U	0.2	U	0.19	U	0.19	U	0.19	U	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U
2,4-Dinitrophenol	51-28-5	mg/kg	NS	NS	NS	NS	0.84	U	0.86	U	0.96	U	0.91	U	0.92	U	0.93	U	0.86	U	0.89	U	0.88	U	0.89	U	0.96	U	0.9	U	0.99	U	0.93	U	0.94	U	0.87	U
2,4-Dinitrotoluene	121-14-2	mg/kg	NS	NS	NS	NS	0.17	U	0.18	U	0.2	U	0.19	U	0.19	U	0.19	U	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U
2,6-Dinitrotoluene	606-20-2	mg/kg	NS	NS	NS	NS	0.17	U	0.18	U	0.2	U	0.19	U	0.19	U	0.19	U	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U
2-Chloronaphthalene	91-58-7	mg/kg	NS	NS	NS	NS	0.17	U	0.18	U	0.2	U	0.19	U	0.19	U	0.19	U	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U
2-Chlorophenol	95-57-8	mg/kg	NS	NS	NS	NS	0.17	U	0.18	U	0.2	U	0.19	U	0.19	U	0.19	U	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U
2-Methylnaphthalene	91-57-6	mg/kg	NS	NS	NS	NS	0.21	U	0.22	U	0.24	U	0.23	U	0.23	U	0.07	J	0.21	U	0.22	U	0.22	U	0.22	U	0.24	U	0.22	U	0.25	U	0.85		2.6		0.22	U
2-Methylphenol	95-48-7	mg/kg	0.33	100	500	0.33	0.17	U	0.18	U	0.2	U	0.19	U	0.19	U	0.19	U	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U
2-Nitroaniline	88-74-4	mg/kg	NS	NS	NS	NS	0.17	U	0.18	U	0.2	U	0.19	U	0.19	U	0.19	U	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U
2-Nitrophenol	88-75-5	mg/kg	NS	NS	NS	NS	0.38	U	0.39	U	0.43	U	0.41	U	0.41	U	0.42	U	0.38	U	0.4	U	0.39	U	0.4	U	0.43	U	0.41	U	0.44	U	0.42	U	0.42	U	0.39	U
3&4-Methylphenol	108-39-4/106-44-5	mg/kg	NS	NS	NS	NS	0.25	U	0.26	U	0.29	U	0.27	U	0.28	U	0.28	U	0.26	U	0.27	U	0.26	U	0.27	U	0.29	U	0.27	U	0.3	U	0.28	U	0.28	U	0.26	U
3,3'-Dichlorobenzidine	91-94-1	mg/kg	NS	NS	NS	NS	0.17	U	0.18	U	0.2	U	0.19	U	0.19	U	0.19	U	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U
3-Nitroaniline	99-09-2	mg/kg	NS	NS	NS	NS	0.17	U	0.18	U	0.2	U	0.19	U	0.19	U	0.19	U	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U
4,6-Dinitro-o-cresol	534-52-1	mg/kg	NS	NS	NS	NS	0.45	U	0.47	U	0.52	U	0.49	U	0.5	U	0.5	U	0.46	U	0.48	U	0.47	U	0.48	U	0.52	U	0.49	U	0.54	U	0.5	U	0.51	U	0.47	U
4-Bromophenyl phenyl ether	101-55-3	mg/kg	NS	NS	NS	NS	0.17	U	0.18	U	0.2	U	0.19	U	0.19	U	0.19	U	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U
4-Chloro-3-methyl phenol	59-50-7	mg/kg	NS	NS	NS	NS	0.17	U	0.18	U	0.2	U	0.19	U	0.19	U	0.19	U	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U
4-Chloroaniline	106-47-8	mg/kg	NS	NS	NS	NS	0.17	U	0.18	U	0.2	U	0.19	U	0.19	U	0.19	U	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	NS	NS	NS	NS	0.17	U	0.18	U	0.2	U	0.19	U	0.19	U	0.19	U	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U
4-Nitroaniline	100-01-6	mg/kg	NS	NS	NS	NS	0.17	U	0.18	U	0.2	U	0.19	U	0.19	U	0.19	U	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U
4-Nitrophenol	100-02-7	mg/kg	NS	NS	NS	NS	0.24	U	0.25	U	0.28	U	0.26	U	0.27	U	0.27	U	0.25	U	0.26	U	0.26	U	0.26	U	0.28	U	0.26	U	0.29	U	0.27	U	0.28	U	0.25	U
Acenaphthene	83-32-9	mg/kg	20	100	500	98	0.14	U	0.14	U	0.16	U	0.15	U	0.15	U	0.15	U	0.14	U	0.15	U	0.14	U	0.15	U	0.16	U	0.15	U	0.16	U	0.16	U	0.16	U	0.14	U
Acenaphthylene	208-96-8	mg/kg	100	100	500	365	0.14	U	0.14	U	0.16	U	0.096	J	0.15	U	0.15	U	0.14	U	0.15	U	0.14	U	0.15	U	0.16	U	0.15	U	0.16	U	0.071	J	0.16	U	0.14	U
Acetophenone	98-86-2	mg/kg	NS	NS	NS	NS	0.17	U	0.18	U	0.2	U	0.19	U	0.19	U	0.19	U	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U
Anthracene	120-12-7	mg/kg	100	100	500	1000	0.1	U	0.11	U	0.12	U	0.04	J	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U	0.11	U	0.12	U	0.11	U	0.12	U	0.11	J	0.12	U	0.11	U
Atrazine	1912-24-9	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Benzaldehyde	100-52-7	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Benzo(a)anthracene	56-55-3	mg/kg	1	1.4	37	1	0.1	U	0.11	U	0.12	U	0.13		0.029	J	0.041	J	0.11	U	0.11	U	0.11	U	0.11	U	0.12	U	0.11	U	0.12	U	0.17		0.12	U	0.11	U
Benzo(a)pyrene	50-32-8	mg/kg	1	1	3.7	22	0.14	U	0.14	U	0.16	U	0.16		0.15	U	0.15	U	0.14	U	0.15	U	0.14	U	0.15	U	0.16	U	0.15	U	0.16	U	0.2		0.16	U	0.14	U
Benzo(b)fluoranthene	205-99-2	mg/kg	1	1.4	37	2.1	0.1	U	0.11	U	0.12	U	0.26		0.052	J	0.039	J	0.11	U	0.11	U	0.11	U	0.11	U	0.12	U	0.11	U	0.12	U	0.23		0.12	U	0.11	U
Benzo(g,h,i)perylene	191-24-2	mg/kg	0.64	4.9	47	1000	0.14	U	0.14	U	0.16	U	0.16		0.037	J	0.15	U	0.14	U	0.15	U	0.14	U	0.15	U	0.16	U	0.15	U	0.16	U	0.15	J	0.16	U	0.14	U
Benzo(k)fluoranthene	207-08-9	mg/kg	0.8	4.9	47	2	0.1	U	0.11	U	0.12	U	0.088	J	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U	0.11	U	0.12	U	0.11	U	0.12	U	0.079	J	0.12	U	0.11	U
Benzoic Acid	65-85-0	mg/kg	NS	NS	NS	NS	0.57	U	0.58	U	0.65	U	0.61	U	0.62	U	0.63	U	0.58	U	0.6	U	0.59	U	0.6	U	0.65	U	0.61	U	0.67	U	0.63	U	0.64	U	0.58	U
Benzyl Alcohol	100-51-6	mg/kg	NS	NS	NS	NS	0.17	U	0.18	U	0.2	U	0.19	U	0.19	U	0.19	U	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U
bis(2-Chloroethoxy)methane	111-91-1	mg/kg	NS	NS	NS	NS	0.19	U	0.19	U	0.22	U	0.2	U	0.21	U	0.21	U	0.19	U	0.2	U	0.2	U	0.2	U	0.22	U	0.2	U	0.22	U	0.21	U	0.21	U	0.2	U
bis(2-Chloroethyl)ether	111-44-4	mg/kg	NS	NS	NS	NS	0.16	U	0.16	U	0.18	U	0.17	U	0.17	U	0.17	U	0.16	U	0.17	U	0.16	U	0.17	U	0.18	U	0.17	U	0.18	U	0.18	U	0.18	U	0.16	U
bis(2-Ethylhexyl)phthalate	117-81-7	mg/kg	NS	NS	NS	NS	0.17	U	0.18	U	0.2	U	0.19	U	0.19	U	0.19	U	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U
Butyl benzyl phthalate	85-68-7	mg/kg	NS	NS	NS	NS	0.06	J	0.13	J	0.2	U	0.19	U	0.19	U	0.19	U	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U
Caprolactam	105-60-2	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Carbazole	86-74-8	mg/kg	NS	NS	NS	NS	0.17	U	0.18	U	0.2	U	0.031	J	0.19	U	0.19	U	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U
Chrysene	218-01-9	mg/kg	1	4.9	47	1	0.1	U	0.11	U	0.12	U	0.19		0.037	J	0.033	J	0.11	U	0.11	U	0.11	U	0.11	U	0.12	U	0.11	U	0.12	U	0.17		0.12	U	0.11	U
Dibenzo(a,h)anthracene	53-70-3	mg/kg	0.33	0.33	3.7	1000	0.1	U	0.11	U	0.12	U	0.031	J	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U	0.11	U	0.12	U	0.11	U	0.12	U	0.033	J	0.12	U	0.11	U
Dibenzofuran	132-64-9	mg/kg	2.1	18	180	110	0.17	U	0.18	U	0.2	U	0.19	U	0.19	U	0.19	U	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.19	U	0.2	U	0.035	J	0.2	U	0.18	U
Diethyl phthalate	84-66-2	mg/kg	NS	NS	NS	NS	0.17	U	0.18	U	0.2	U	0.19	U	0.19	U	0.19	U	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U
Dimethyl phthalate	131-11-3	mg/kg	NS	NS	NS	NS	0.17	U	0.18	U	0.2	U	0.19	U	0.19	U	0.19	U	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U
Di-n-butyl phthalate	84-74-2	mg/kg	NS	NS	NS	NS	0.17	U	0.18	U	0.2	U	0.19	U	0.19	U	0.19	U	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U
Di-n-octyl phthalate	117-84-0	mg/kg	NS	NS	NS	NS	0.17	U	0.18	U	0.2	U	0.19	U	0.19	U	0.19	U	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U
Fluoranthene	206-44-0	mg/kg	85	100	500	1000	0.1	U	0.11	U	0.12	U	0.4		0.052	J	0.1	J	0.11	U	0.11	U	0.11	U	0.11	U	0.12	U	0.11	U	0.12	U	0.38		0.12	U	0.11	U
Fluorene	86-73-7	mg/kg	30	100	500	386	0.17	U	0.18	U	0.2	U	0.02	J	0.19	U	0.19	U	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.19	U	0.2	U	0.088	J	0.2	U	0.18	U
Hexachlorobenzene	118-74-1	mg/kg	0.33	0.33	1.8	3.2	0.1	U	0.11	U	0.12	U	0.11	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U	0.11	U	0.12	U	0.11	U	0.12	U	0.12	U	0.12	U	0.11	U
Hexachlorobutadiene	87-68-3	mg/kg	NS	NS	NS	NS	0.17	U	0.18	U	0.2	U	0.19	U	0.19	U	0.19	U	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U
Hexachlorocyclopentadiene	77-47-4	mg/kg	NS	NS	NS	NS	0.5	U	0.51	U	0.57	U	0.54	U	0.55	U	0.55	U	0.51	U	0.53	U	0.52	U	0.53	U	0.57	U	0.54	U	0.59	U	0.56	U	0.56	U	0.52	U
Hexachloroethane	67-72-1	mg/kg	NS	NS	NS	NS	0.14	U	0.14	U	0.16	U	0.15	U	0.15	U	0.15	U	0.14	U	0.15	U	0.14	U	0.15	U	0.16	U	0.15	U	0.16	U	0.16	U	0.16	U	0.14	U
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0.5	1.4	37	6.6	0.14	U	0.14	U	0.16	U	0.15		0.029	J	0.15	U	0.14	U	0.15	U	0.14	U	0.15	U	0.16	U	0.15	U	0.16	U	0.16		0.16	U	0.14	U
Isophorone	78-59-1	mg/kg	NS	NS	NS	NS	0.16	U	0.16	U	0.18	U	0.17	U	0.17	U	0.17	U	0.16	U	0.17	U	0.16	U	0.17	U	0.18	U	0.17	U	0.18	U	0.18	U	0.18	U	0.16	U
Naphthalene	91-20-3	mg/kg	12	100	500	12	0.17	U	0.18	U	0.2	U	0.19	U	0.19	U	0.19	U	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.19	U	0.2	U	0.64		2.5		0.18	U
Nitrobenzene	98-95-3	mg/kg	0.08	1.8	8.9	0.08	0.16	U	0.16	U	0.18	U	0.17	U	0.17	U	0.17	U	0.16	U	0.17	U	0.16	U	0.17	U	0.18	U	0.17	U	0.18	U	0.18	U	0.18	U	0.16	U
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	NS	NS	NS	NS	0.17	U	0.18	U	0.2	U	0.19	U	0.19	U	0.19	U	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U
N-Nitrosodiphenylamine	86-30-6	mg/kg	NS	NS	NS	NS	0.14	U	0.14	U	0.16	U	0.15	U	0.15	U	0.15	U	0.14	U	0.15	U	0.14	U	0.15	U	0.16	U	0.15	U	0.16	U	0.16	U	0.16	U	0.14	U
Pentachlorophenol	87-86-5	mg/kg	0.8	1.3	6.9	0.8	0.14	U	0.14	U	0.16	U	0.15	U	0.15	U	0.15	U	0.14	U	0.15	U	0.14	U	0.15	U	0.16	U	0.15	U	0.16	U	0.16	U	0.16	U	0.14	U
Phenanthrene	85-01-8	mg/kg	1.1	4.9	47	1000	0.1	U	0.11	U	0.12	U	0.3		0.11	U	0.071	J	0.11	U	0.11	U	0.11	U	0.11	U	0.12	U	0.11	U	0.12	U	0.38		0.12	U	0.11	U
Phenol	108-95-2	mg/kg	0.33	100	500	0.33	0.17	U	0.18	U	0.2	U	0.19	U	0.19	U	0.19	U	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U
Pyrene	129-00-0	mg/kg	64	100	500	1000	0.1	U	0.11	U	0.12	U	0.33		0.048	J	0.087	J	0.11	U	0.11	U	0.11	U	0.11	U	0.12	U	0.11	U	0.12	U	0.32		0.12	U	0.11	U
Total TIC, Semi-Volatile	-	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs

Concentration Exceeds NYSDEC RRUSCOs

Concentration Exceeds NYSDEC UUSCOs

Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

TABLE 5.2
SUMMARY OF SOIL SAMPLING RESULTS—SVOCs

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-28 (1-1.5)		SB-28 (8-8.5)		SB-28 (8-8.5)		SB-28 (10-10.5)		SB-29 (2.5-3)		SB-29 (8-8.5)		SB-29 (10.5-11)		SB-30 (2.5-3)		SB-30 (7.5-8)		SB-30 (10.5-11)		SB-31 (4.5-5.0)		SB-31 (9.5-10)		SB-31 (10.5-11)		SB-32 (1-1.5)		SB-32 (4-4.5)		SB-32 (13.5-14)	
LAB SAMPLE ID:							L2547764-09		L2547764-10		L2547764-10 R1		L2547764-11		L2547764-06		L2547764-07		L2547764-08		L2548308-07		L2548308-08		L2548308-09		L2548308-10		L2548308-12		L2548308-11		L2548308-14		L2548308-13		L2548308-15	
SAMPLE DATE:							7/30/2025		7/30/2025		7/30/2025		7/30/2025		7/30/2025		7/30/2025		7/30/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
SVOCs (SW846 8270E)																																						
1,1'-Biphenyl	92-52-4	mg/kg	NS	NS	NS	NS	0.42	U	0.17	J	-		0.44	U	0.45	U	0.42	U	0.4	U	0.42	U	0.42	U	0.4	U	0.4	U	0.057	J	0.033	J	0.41	U	0.39	U	0.41	U
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	-		0.19	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	-		0.19	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U
1,2-Dichlorobenzene	95-50-1	mg/kg	1.1	100	500	1.1	0.18	U	0.19	U	-		0.19	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U
1,3-Dichlorobenzene	541-73-1	mg/kg	2.6	38	280	2.6	0.18	U	0.19	U	-		0.19	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U
1,4-Dichlorobenzene	106-46-7	mg/kg	1.8	24	130	1.8	0.18	U	0.19	U	-		0.19	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U
1,4-Dioxane	123-91-1	mg/kg	0.1	5.7	36	0.1	0.027	U	0.028	U	-		0.029	U	0.029	U	0.028	U	0.026	U	0.027	U	0.027	U	0.027	U	0.026	U	0.027	U	0.027	U	0.027	U	0.026	U	0.027	U
2,2'-Oxybis(1-chloropropane)	108-60-1	mg/kg	NS	NS	NS	NS	0.22	U	0.23	U	-		0.23	U	0.24	U	0.22	U	0.21	U	0.22	U	0.22	U	0.21	U	0.21	U	0.22	U	0.22	U	0.22	U	0.21	U	0.22	U
2,3,4,6-Tetrachlorophenol	58-90-2	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
2,4,5-Trichlorophenol	95-95-4	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	-		0.19	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U
2,4,6-Trichlorophenol	88-06-2	mg/kg	NS	NS	NS	NS	0.11	U	0.11	U	-		0.12	U	0.12	U	0.11	U	0.1	U	0.11	U	0.11	U	0.11	U	0.1	U	0.11	U	0.11	U	0.11	U	0.1	U	0.11	U
2,4-Dichlorophenol	120-83-2	mg/kg	NS	NS	NS	NS	0.16	U	0.17	U	-		0.17	U	0.18	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U
2,4-Dimethylphenol	105-67-9	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	-		0.19	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U
2,4-Dinitrophenol	51-28-5	mg/kg	NS	NS	NS	NS	0.88	U	0.91	U	-		0.93	U	0.94	U	0.88	U	0.84	U	0.88	U	0.88	U	0.85	U	0.84	U	0.88	U	0.87	U	0.86	U	0.83	U	0.86	U
2,4-Dinitrotoluene	121-14-2	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	-		0.19	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U
2,6-Dinitrotoluene	606-20-2	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	-		0.19	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U
2-Chloronaphthalene	91-58-7	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	-		0.19	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U
2-Chlorophenol	95-57-8	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	-		0.19	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U
2-Methylnaphthalene	91-57-6	mg/kg	NS	NS	NS	NS	0.41		13	E	15		0.051	J	0.24	U	0.27		0.08	J	0.096	J	0.71		0.21	U	0.21	U	2.1		3.4		0.22	U	0.21	U	0.22	U
2-Methylphenol	95-48-7	mg/kg	0.33	100	500	0.33	0.18	U	0.19	U	-		0.19	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U
2-Nitroaniline	88-74-4	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	-		0.19	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U
2-Nitrophenol	88-75-5	mg/kg	NS	NS	NS	NS	0.39	U	0.41	U	-		0.42	U	0.42	U	0.4	U	0.38	U	0.4	U	0.39	U	0.38	U	0.38	U	0.39	U	0.39	U	0.39	U	0.37	U	0.39	U
3&4-Methylphenol	108-39-4/106-44-5	mg/kg	NS	NS	NS	NS	0.26	U	0.27	U	-		0.28	U	0.28	U	0.26	U	0.25	U	0.26	U	0.26	U	0.26	U	0.25	U	0.26	U	0.26	U	0.26	U	0.25	U	0.26	U
3,3'-Dichlorobenzidine	91-94-1	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	-		0.19	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U
3-Nitroaniline	99-09-2	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	-		0.19	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U
4,6-Dinitro-o-cresol	534-52-1	mg/kg	NS	NS	NS	NS	0.47	U	0.49	U	-		0.5	U	0.51	U	0.48	U	0.46	U	0.48	U	0.48	U	0.46	U	0.46	U	0.48	U	0.47	U	0.47	U	0.45	U	0.47	U
4-Bromophenyl phenyl ether	101-55-3	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	-		0.19	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U
4-Chloro-3-methyl phenol	59-50-7	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	-		0.19	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U
4-Chloroaniline	106-47-8	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	-		0.19	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	-		0.19	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U
4-Nitroaniline	100-01-6	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	-		0.19	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U
4-Nitrophenol	100-02-7	mg/kg	NS	NS	NS	NS	0.26	U	0.26	U	-		0.27	U	0.28	U	0.26	U	0.25	U	0.26	U	0.26	U	0.25	U	0.24	U	0.26	U	0.25	U	0.25	U	0.24	U	0.25	U
Acenaphthene	83-32-9	mg/kg	20	100	500	98	0.15	U	0.037	J	-		0.16	U	0.16	U	0.15	U	0.14	U	0.042	J	0.15	U	0.14	U	0.14	U	0.042	J	0.025	J	0.14	U	0.14	U	0.14	U
Acenaphthylene	208-96-8	mg/kg	100	100	500	365	0.062	J	0.15	U	-		0.16	U	0.16	U	0.15	U	0.14	U	0.15	U	0.15	U	0.14	U	0.14	U	0.15	U	0.14	U	0.14	U	0.14	U	0.14	U
Acetophenone	98-86-2	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	-		0.19	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U
Anthracene	120-12-7	mg/kg	100	100	500	1000	0.11	U	0.11	U	-		0.12	U	0.12	U	0.11	U	0.1	U	0.072	J	0.11	U	0.11	U	0.1	U	0.044	J	0.11	U	0.11	U	0.1	U	0.11	U
Atrazine	1912-24-9	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Benzaldehyde	100-52-7	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Benzo(a)anthracene	56-55-3	mg/kg	1	1.4	37	1	0.089	J	0.11	U	-		0.044	J	0.022	J	0.022	J	0.04	J	0.21		0.11	U	0.11	U	0.1	U	0.045	J	0.025	J	0.061	J	0.1	U	0.11	U
Benzo(a)pyrene	50-32-8	mg/kg	1	1	3.7	22	0.14	J	0.15	U	-		0.052	J	0.16	U	0.15	U	0.048	J	0.21		0.15	U	0.14	U	0.14	U	0.15	U	0.14	U	0.071	J	0.14	U	0.14	U
Benzo(b)fluoranthene	205-99-2	mg/kg	1	1.4	37	2.1	0.18		0.11	U	-		0.12	U	0.12	U	0.038	J	0.068	J	0.26		0.11	U	0.11	U	0.1	U	0.044	J	0.11	U	0.095	J	0.1	U	0.11	U
Benzo(g,h,i)perylene	191-24-2	mg/kg	0.64	4.9	47	1000	0.18		0.15	U	-		0.056	J	0.16	U	0.028	J	0.048	J	0.15		0.15	U	0.14	U	0.14	U	0.023	J	0.14	U	0.062	J	0.14	U	0.14	U
Benzo(k)fluoranthene	207-08-9	mg/kg	0.8	4.9	47	2	0.053	J	0.11	U	-		0.12	U	0.12	U	0.11	U	0.1	U	0.086	J	0.11	U	0.11	U	0.1	U	0.11	U	0.11	U	0.032	J	0.1	U	0.11	U
Benzoic Acid	65-85-0	mg/kg	NS	NS	NS	NS	0.59	U	0.62	U	-		0.63	U	0.64	U	0.6	U	0.57	U	0.59	U	0.59	U	0.57	U	0.57	U	0.59	U	0.59	U	0.58	U	0.56	U	0.58	U
Benzyl Alcohol	100-51-6	mg/kg	NS	NS	NS	NS	0.18	U	0.15	J	-		0.19	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U
bis(2-Chloroethoxy)methane	111-91-1	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	-		0.21	U	0.21	U	0.2	U	0.19	U	0.2	U	0.2	U	0.19	U	0.19	U	0.2	U	0.2	U	0.19	U	0.19	U	0.19	U
bis(2-Chloroethyl)ether	111-44-4	mg/kg	NS	NS	NS	NS	0.16	U	0.17	U	-		0.17	U	0.18	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U
bis(2-Ethylhexyl)phthalate	117-81-7	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	-		0.19	U	0.2	U	0.18	U	0.11	J	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U
Butyl benzyl phthalate	85-68-7	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	-		0.19	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U
Caprolactam	105-60-2	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Carbazole	86-74-8	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	-		0.19	U	0.2	U	0.18	U	0.18	U	0.028	J	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U
Chrysene	218-01-9	mg/kg	1	4.9	47	1	0.13		0.11	U	-		0.057	J	0.02	J	0.023	J	0.041	J	0.19		0.11	U	0.11	U	0.1	U	0.036	J	0.021	J	0.057	J	0.1	U	0.11	U
Dibenzo(a,h)anthracene	53-70-3	mg/kg	0.33	0.33	3.7	1000	0.028	J	0.11	U	-		0.12	U	0.12	U	0.11	U	0.1	U	0.039	J	0.11	U	0.11	U	0.1	U	0.11	U	0.11	U	0.11	U	0.1	U	0.11	U
Dibenzofuran	132-64-9	mg/kg	2.1	18	180	110	0.18	U	0.19	U	-		0.19	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.023	J	0.18	U	0.18	U	0.17	U	0.18	U
Diethyl phthalate	84-66-2	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	-		0.19	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U
Dimethyl phthalate	131-11-3	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	-		0.19	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U
Di-n-butyl phthalate	84-74-2	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	-		0.19	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U
Di-n-octyl phthalate	117-84-0	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	-		0.19	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U
Fluoranthene	206-44-0	mg/kg	85	100	500	1000	0.091	J	0.11	U	-		0.12	U	0.034	J	0.034	J	0.085	J	0.38		0.11	U	0.11	U	0.1	U	0.12		0.064	J	0.094	J	0.1	U	0.11	U
Fluorene	86-73-7	mg/kg	30	100	500	386	0.18	U	0.037	J	-		0.19	U	0.2	U	0.18	U	0.18	U	0.03	J	0.18	U	0.18	U	0.18	U	0.082	J	0.044	J	0.18	U	0.17	U	0.18	U
Hexachlorobenzene	118-74-1	mg/kg	0.33	0.33	1.8	3.2	0.11	U	0.11	U	-		0.12	U	0.12	U	0.11	U	0.1	U	0.11	U	0.11	U	0.11	U	0.1	U	0.11	U	0.11	U	0.11	U	0.1	U	0.11	U
Hexachlorobutadiene	87-68-3	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	-		0.19	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U
Hexachlorocyclopentadiene	77-47-4	mg/kg	NS	NS	NS	NS	0.52	U	0.54	U	-		0.56	U	0.56	U	0.52	U	0.5	U	0.52	U	0.52	U	0.51	U	0.5	U	0.52	U	0.52	U	0.52	U	0.5	U	0.51	U
Hexachloroethane	67-72-1	mg/kg	NS	NS	NS	NS	0.15	U	0.15	U	-		0.16	U	0.16	U	0.15	U	0.14	U	0.15	U	0.15	U	0.14	U	0.14	U	0.15	U	0.14	U	0.14	U	0.14	U	0.14	U
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0.5	1.4	37	6.6	0.13	J	0.15	U	-		0.16	U	0.16	U	0.15	U	0.043	J	0.12	J	0.15	U	0.14	U	0.14	U	0.15	U	0.14	U	0.048	J	0.14	U	0.14	U
Isophorone	78-59-1	mg/kg	NS	NS	NS	NS	0.16	U	0.17	U	-		0.17	U	0.18	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U
Naphthalene	91-20-3	mg/kg	12	100	500	12	0.57		9	E	10		0.08	J	0.2	U	0.053	J	0.064	J	0.035	J	0.046	J	0.18	U	0.18	U	0.59		0.46		0.18	U	0.17	U	0.18	U
Nitrobenzene	98-95-3	mg/kg	0.08	1.8	8.9	0.08	0.16	U	0.17	U	-		0.17	U	0.18	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	-		0.19	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U
N-Nitrosodiphenylamine	86-30-6	mg/kg	NS	NS	NS	NS	0.15	U	0.15	U	-		0.16	U	0.16	U	0.15	U	0.14	U	0.15	U	0.15	U	0.14	U	0.14	U	0.15	U	0.14	U	0.14	U	0.14	U	0.14	U
Pentachlorophenol	87-86-5	mg/kg	0.8	1.3	6.9	0.8	0.15	U	0.15	U	-		0.16	U	0.16	U	0.15	U	0.14	U	0.15	U	0.15	U	0.14	U	0.14	U	0.15	U	0.14	U	0.14	U	0.14	U	0.14	U
Phenanthrene	85-01-8	mg/kg	1.1	4.9	47	1000	0.059	J	0.052	J	-		0.12	U	0.12	U	0.11	U	0.057	J	0.24		0.11	U	0.11	U	0.1	U	0.17		0.087	J	0.11	U	0.1	U	0.11	U
Phenol	108-95-2	mg/kg	0.33	100	500	0.33	0.18	U	0.19	U	-		0.19	U	0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.18	U
Pyrene	129-00-0	mg/kg	64	100	500	1000	0.12		0.023	J	-		0.09	J	0.032	J	0.032	J	0.072	J	0.33		0.11	U	0.11	U	0.1	U	0.1	J	0.055	J	0.091	J	0.1	U	0.11	U
Total TIC, Semi-Volatile	-	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs

Concentration Exceeds NYSDEC RRUSCOs

Concentration Exceeds NYSDEC UUSCOs

Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

TABLE 5.2
SUMMARY OF SOIL SAMPLING RESULTS—SVOCs

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-33 (4-4.5)		SB-33 (6-6.5)		SB-33 (11.5-12)		SB-34 (2.5-3)		SB-34 (7-7.5)		SB-34 (7-7.5)		SB-34 (10.5-11)		SB-35 (0.5-1)		SB-35 (9-9.5)		SB-35 (11.5-12)		SB-36 (4-5)		SB-36 (8-9)		SB-37 (4-4.5)		SB-37 (8.5-9)		SB-37 (11.5-12)		SB-37 (17-17.5)	
LAB SAMPLE ID:							L2548308-16		L2548308-17		L2548308-18		L2548308-04		L2548308-05		L2548308-05 R1		L2548308-06		L2548308-01		L2548308-02		L2548308-03		L2547397-02		L2548397-01		L2548309-03		L2548309-02		L2548309-04		L2548309-01	
SAMPLE DATE:							7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		8/1/2025		8/1/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
SVOCs (SW846 8270E)																																						
1,1'-Biphenyl	92-52-4	mg/kg	NS	NS	NS	NS	0.42	U	0.42	U	0.42	U	0.046	J	0.15	J	-		0.056	J	0.41	U	0.42	U	0.41	U	0.4	U	0.026	J	0.41	U	0.49	U	0.42	U	0.41	U
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.19	U	0.17	U	0.18	U	-		0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.21	U	0.18	U	0.18	U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.19	U	0.17	U	0.18	U	-		0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.21	U	0.18	U	0.18	U
1,2-Dichlorobenzene	95-50-1	mg/kg	1.1	100	500	1.1	0.18	U	0.18	U	0.19	U	0.17	U	0.18	U	-		0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.21	U	0.18	U	0.18	U
1,3-Dichlorobenzene	541-73-1	mg/kg	2.6	38	280	2.6	0.18	U	0.18	U	0.19	U	0.17	U	0.18	U	-		0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.21	U	0.18	U	0.18	U
1,4-Dichlorobenzene	106-46-7	mg/kg	1.8	24	130	1.8	0.18	U	0.18	U	0.19	U	0.17	U	0.18	U	-		0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.21	U	0.18	U	0.18	U
1,4-Dioxane	123-91-1	mg/kg	0.1	5.7	36	0.1	0.027	U	0.027	U	0.028	U	0.026	U	0.027	U	-		0.029	U	0.027	U	0.028	U	0.027	U	0.027	U	0.028	U	0.027	U	0.032	U	0.028	U	0.027	U
2,2'-Oxybis(1-chloropropane)	108-60-1	mg/kg	NS	NS	NS	NS	0.22	U	0.22	U	0.22	U	0.21	U	0.22	U	-		0.23	U	0.22	U	0.22	U	0.22	U	0.21	U	0.22	U	0.22	U	0.26	U	0.22	U	0.22	U
2,3,4,6-Tetrachlorophenol	58-90-2	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
2,4,5-Trichlorophenol	95-95-4	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.19	U	0.17	U	0.18	U	-		0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.21	U	0.18	U	0.18	U
2,4,6-Trichlorophenol	88-06-2	mg/kg	NS	NS	NS	NS	0.11	U	0.11	U	0.11	U	0.1	U	0.11	U	-		0.12	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.13	U	0.11	U	0.11	U
2,4-Dichlorophenol	120-83-2	mg/kg	NS	NS	NS	NS	0.16	U	0.16	U	0.17	U	0.15	U	0.16	U	-		0.18	U	0.16	U	0.16	U	0.16	U	0.16	U	0.17	U	0.16	U	0.19	U	0.16	U	0.16	U
2,4-Dimethylphenol	105-67-9	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.19	U	0.17	U	0.18	U	-		0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.21	U	0.18	U	0.18	U
2,4-Dinitrophenol	51-28-5	mg/kg	NS	NS	NS	NS	0.88	U	0.88	U	0.89	U	0.82	U	0.87	U	-		0.94	U	0.86	U	0.88	U	0.87	U	0.85	U	0.89	U	0.87	U	1	U	0.88	U	0.87	U
2,4-Dinitrotoluene	121-14-2	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.19	U	0.17	U	0.18	U	-		0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.21	U	0.18	U	0.18	U
2,6-Dinitrotoluene	606-20-2	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.19	U	0.17	U	0.18	U	-		0.2	U	0.61		0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.21	U	0.18	U	0.18	U
2-Chloronaphthalene	91-58-7	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.19	U	0.17	U	0.18	U	-		0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.21	U	0.18	U	0.18	U
2-Chlorophenol	95-57-8	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.19	U	0.17	U	0.18	U	-		0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.21	U	0.18	U	0.18	U
2-Methylnaphthalene	91-57-6	mg/kg	NS	NS	NS	NS	0.22	U	0.22	U	0.22	U	0.91		10	E	14		3.6		0.22	U	0.22	U	0.22	U	0.21	U	1.2		0.22	U	0.26	U	0.22	U	0.22	U
2-Methylphenol	95-48-7	mg/kg	0.33	100	500	0.33	0.18	U	0.18	U	0.19	U	0.17	U	0.18	U	-		0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.21	U	0.18	U	0.18	U
2-Nitroaniline	88-74-4	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.19	U	0.17	U	0.18	U	-		0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.21	U	0.18	U	0.18	U
2-Nitrophenol	88-75-5	mg/kg	NS	NS	NS	NS	0.39	U	0.4	U	0.4	U	0.37	U	0.39	U	-		0.42	U	0.39	U	0.4	U	0.39	U	0.38	U	0.4	U	0.39	U	0.46	U	0.4	U	0.39	U
3&4-Methylphenol	108-39-4/106-44-5	mg/kg	NS	NS	NS	NS	0.26	U	0.26	U	0.27	U	0.25	U	0.26	U	-		0.28	U	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U	0.31	U	0.26	U	0.26	U
3,3'-Dichlorobenzidine	91-94-1	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.19	U	0.17	U	0.18	U	-		0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.21	U	0.18	U	0.18	U
3-Nitroaniline	99-09-2	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.19	U	0.17	U	0.18	U	-		0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.21	U	0.18	U	0.18	U
4,6-Dinitro-o-cresol	534-52-1	mg/kg	NS	NS	NS	NS	0.48	U	0.48	U	0.48	U	0.45	U	0.47	U	-		0.51	U	0.47	U	0.48	U	0.47	U	0.46	U	0.48	U	0.47	U	0.56	U	0.48	U	0.47	U
4-Bromophenyl phenyl ether	101-55-3	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.19	U	0.17	U	0.18	U	-		0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.21	U	0.18	U	0.18	U
4-Chloro-3-methyl phenol	59-50-7	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.19	U	0.17	U	0.18	U	-		0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.21	U	0.18	U	0.18	U
4-Chloroaniline	106-47-8	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.19	U	0.17	U	0.18	U	-		0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.21	U	0.18	U	0.18	U
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.19	U	0.17	U	0.18	U	-		0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.21	U	0.18	U	0.18	U
4-Nitroaniline	100-01-6	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.19	U	0.17	U	0.18	U	-		0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.21	U	0.18	U	0.18	U
4-Nitrophenol	100-02-7	mg/kg	NS	NS	NS	NS	0.26	U	0.26	U	0.26	U	0.24	U	0.25	U	-		0.27	U	0.25	U	0.26	U	0.25	U	0.25	U	0.26	U	0.25	U	0.3	U	0.26	U	0.25	U
Acenaphthene	83-32-9	mg/kg	20	100	500	98	0.15	U	0.15	U	0.15	U	0.12	J	0.026	J	-		0.16	U	0.14	U	0.15	U	0.14	U	0.14	U	0.15	U	0.14	U	0.17	U	0.15	U	0.14	U
Acenaphthylene	208-96-8	mg/kg	100	100	500	365	0.15	U	0.15	U	0.15	U	0.034	J	0.14	U	-		0.16	U	0.14	U	0.15	U	0.14	U	0.14	U	0.15	U	0.14	U	0.17	U	0.15	U	0.14	U
Acetophenone	98-86-2	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.19	U	0.17	U	0.18	U	-		0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.21	U	0.18	U	0.18	U
Anthracene	120-12-7	mg/kg	100	100	500	1000	0.11	U	0.11	U	0.11	U	0.25		0.11	U	-		0.12	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.13	U	0.11	U	0.11	U
Atrazine	1912-24-9	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Benzaldehyde	100-52-7	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Benzo(a)anthracene	56-55-3	mg/kg	1	1.4	37	1	0.11	U	0.11	U	0.11	U	1.1		0.022	J	-		0.12	U	0.13		0.11	U	0.11	U	0.11	U	0.047	J	0.13	U	0.11	U	0.11	U	0.11	U
Benzo(a)pyrene	50-32-8	mg/kg	1	1	3.7	22	0.15	U	0.15	U	0.15	U	0.73		0.14	U	-		0.16	U	0.14		0.15	U	0.14	U	0.14	U	0.15	U	0.14	U	0.17	U	0.15	U	0.14	U
Benzo(b)fluoranthene	205-99-2	mg/kg	1	1.4	37	2.1	0.11	U	0.11	U	0.11	U	1.3		0.11	U	-		0.12	U	0.19		0.11	U	0.11	U	0.11	U	0.045	J	0.13	U	0.11	U	0.11	U	0.11	U
Benzo(g,h,i)perylene	191-24-2	mg/kg	0.64	4.9	47	1000	0.15	U	0.15	U	0.15	U	0.55		0.14	U	-		0.16	U	0.1	J	0.15	U	0.14	U	0.14	U	0.15	U	0.058	J	0.17	U	0.15	U	0.14	U
Benzo(k)fluoranthene	207-08-9	mg/kg	0.8	4.9	47	2	0.11	U	0.11	U	0.11	U	0.5	J	0.11	U	-		0.12	U	0.055	J	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.13	U	0.11	U	0.11	U
Benzoic Acid	65-85-0	mg/kg	NS	NS	NS	NS	0.59	U	0.59	U	0.6	U	0.56	U	0.58	U	-		0.63	U	0.58	U	0.59	U	0.59	U	0.58	U	0.6	U	0.59	U	0.7	U	0.6	U	0.59	U
Benzyl Alcohol	100-51-6	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.19	U	0.17	U	0.18	U	-		0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.21	U	0.18	U	0.18	U
bis(2-Chloroethoxy)methane	111-91-1	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.2	U	0.18	U	0.2	U	-		0.21	U	0.19	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.23	U	0.2	U	0.2	U
bis(2-Chloroethyl)ether	111-44-4	mg/kg	NS	NS	NS	NS	0.16	U	0.16	U	0.17	U	0.15	U	0.16	U	-		0.18	U	0.16	U	0.16	U	0.16	U	0.16	U	0.17	U	0.16	U	0.19	U	0.16	U	0.16	U
bis(2-Ethylhexyl)phthalate	117-81-7	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.19	U	0.21		0.18	U	-		0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.21	U	0.18	U	0.18	U
Butyl benzyl phthalate	85-68-7	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.19	U	0.17	U	0.18	U	-		0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.21	U	0.18	U	0.18	U
Caprolactam	105-60-2	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Carbazole	86-74-8	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.19	U	0.16	J	0.18	U	-		0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.21	U	0.18	U	0.18	U
Chrysene	218-01-9	mg/kg	1	4.9	47	1	0.11	U	0.11	U	0.11	U	1.1		0.11	U	-		0.12	U	0.12		0.11	U	0.11	U	0.11	U	0.11	U	0.09	J	0.13	U	0.11	U	0.11	U
Dibenzo(a,h)anthracene	53-70-3	mg/kg	0.33	0.33	3.7	1000	0.11	U	0.11	U	0.11	U	0.12		0.11	U	-		0.12	U	0.026	J	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.13	U	0.11	U	0.11	U
Dibenzofuran	132-64-9	mg/kg	2.1	18	180	110	0.18	U	0.18	U	0.19	U	0.1	J	0.18	U	-		0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.21	U	0.18	U	0.18	U
Diethyl phthalate	84-66-2	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.19	U	0.17	U	0.18	U	-		0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.21	U	0.18	U	0.18	U
Dimethyl phthalate	131-11-3	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.19	U	0.17	U	0.18	U	-		0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.21	U	0.18	U	0.18	U
Di-n-butyl phthalate	84-74-2	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.19	U	0.17	U	0.18	U	-		0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.21	U	0.18	U	0.18	U
Di-n-octyl phthalate	117-84-0	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.19	U	0.17	U	0.18	U	-		0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.21	U	0.18	U	0.18	U
Fluoranthene	206-44-0	mg/kg	85	100	500	1000	0.11	U	0.11	U	0.11	U	1.3		0.039	J	-		0.12	U	0.22		0.11	U	0.11	U	0.11	U	0.11	U	0.056	J	0.13	U	0.11	U	0.11	U
Fluorene	86-73-7	mg/kg	30	100	500	386	0.18	U	0.18	U	0.19	U	0.22		0.051	J	-		0.023	J	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.21	U	0.18	U	0.18	U
Hexachlorobenzene	118-74-1	mg/kg	0.33	0.33	1.8	3.2	0.11	U	0.11	U	0.11	U	0.1	U	0.11	U	-		0.12	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.13	U	0.11	U	0.11	U
Hexachlorobutadiene	87-68-3	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.19	U	0.17	U	0.18	U	-		0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.21	U	0.18	U	0.18	U
Hexachlorocyclopentadiene	77-47-4	mg/kg	NS	NS	NS	NS	0.52	U	0.52	U	0.53	U	0.49	U	0.52	U	-		0.56	U	0.51	U	0.52	U	0.52	U	0.51	U	0.53	U	0.52	U	0.61	U	0.53	U	0.52	U
Hexachloroethane	67-72-1	mg/kg	NS	NS	NS	NS	0.15	U	0.15	U	0.15	U	0.14	U	0.14	U	-		0.16	U	0.14	U	0.15	U	0.14	U	0.14	U	0.15	U	0.14	U	0.17	U	0.15	U	0.14	U
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0.5	1.4	37	6.6	0.15	U	0.15	U	0.15	U	0.44		0.14	U	-		0.16	U	0.081	J	0.15	U	0.14	U	0.14	U	0.15	U	0.032	J	0.17	U	0.15	U	0.14	U
Isophorone	78-59-1	mg/kg	NS	NS	NS	NS	0.16	U	0.16	U	0.17	U	0.15	U	0.16	U	-		0.18	U	0.16	U	0.16	U	0.16	U	0.16	U	0.17	U	0.16	U	0.19	U	0.16	U	0.16	U
Naphthalene	91-20-3	mg/kg	12	100	500	12	0.18	U	0.18	U	0.19	U	0.57		11	E	15		2.8		0.18	U	0.18	U	0.18	U	0.18	U	0.87		0.18	U	0.21	U	0.18	U	0.18	U
Nitrobenzene	98-95-3	mg/kg	0.08	1.8	8.9	0.08	0.16	U	0.16	U	0.17	U	0.15	U	0.16	U	-		0.18	U	0.16	U	0.16	U	0.16	U	0.16	U	0.17	U	0.16	U	0.19	U	0.16	U	0.16	U
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	NS	NS	NS	NS	0.18	U	0.18	U	0.19	U	0.17	U	0.18	U	-		0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.21	U	0.18	U	0.18	U
N-Nitrosodiphenylamine	86-30-6	mg/kg	NS	NS	NS	NS	0.15	U	0.15	U	0.15	U	0.14	U	0.14	U	-		0.16	U	0.14	U	0.15	U	0.14	U	0.14	U	0.15	U	0.14	U	0.17	U	0.15	U	0.14	U
Pentachlorophenol	87-86-5	mg/kg	0.8	1.3	6.9	0.8	0.15	U	0.15	U	0.15	U	0.14	U	0.14	U	-		0.16	U	0.14	U	0.15	U	0.14	U	0.14	U	0.15	U	0.14	U	0.17	U	0.15	U	0.14	U
Phenanthrene	85-01-8	mg/kg	1.1	4.9	47	1000	0.11	U	0.11	U	0.11	U	0.99		0.075	J	-		0.038	J	0.097	J	0.11	U	0.11	U	0.11	U	0.11	U	0.022	J	0.13	U	0.11	U	0.11	U
Phenol	108-95-2	mg/kg	0.33	100	500	0.33	0.18	U	0.18	U	0.19	U	0.17	U	0.18	U	-		0.2	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.21	U	0.18	U	0.18	U
Pyrene	129-00-0	mg/kg	64	100	500	1000	0.11	U	0.11	U	0.11	U	1.1		0.039	J	-		0.12	U	0.2		0.018	J	0.11	U	0.11	U	0.11	U	0.061	J	0.13	U	0.11	U	0.11	U
Total TIC, Semi-Volatile	-	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs
Concentration Exceeds NYSDEC RRUSCOs
Concentration Exceeds NYSDEC UUSCOs
Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

SAMPLE ID:							SB-38 (2-2.5)		SB-38 (5.5-6)		SB-38 (12.5-13)		SB-38 (16.5-17)		SB-39 (2.5-3)		SB-39 (9.5-10)		SB-39 (14-14.5)		SB-39 (15.5-16)		SB-40 (1-1.5)		SB-40 (8-9)		SB-40 (13.5-14)		SB-41 (0.5-1.5)		SB-41 (7-8)		SB-42 (3-4)		SB-42 (8-9)		SB-43 (0.5-1.5)		SB-43 (9-10)	
LAB SAMPLE ID:							L2547764-02		L2547764-03		L2547764-04		L2547764-05		L2548309-05		L2548309-06		L2548309-07		L2548309-09		L2550303-01		L2550303-02		L2550303-03		L2550303-04		L2550303-05		L2550303-06		L2550303-07		L2550303-08		L2550303-09	
SAMPLE DATE:							7/30/2025		7/30/2025		7/30/2025		7/30/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025	
MATRIX:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
SVOCs (SW846 8270E)																																								
1,1'-Biphenyl	92-52-4	mg/kg	NS	NS	NS	NS	0.44	U	0.49	U	0.43	U	0.4	U	0.41	U	0.4	U	0.43	U	0.4	U	0.39	U	1.4	U	0.48	U	0.39	U	0.41	U	0.39	U	0.43	U	0.39	U	0.49	U
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	NS	NS	NS	NS	0.19	U	0.22	U	0.19	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.17	U	0.6	U	0.21	U	0.17	U	0.18	U	0.17	U	0.19	U	0.17	U	0.21	U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	NS	NS	NS	NS	0.19	U	0.22	U	0.19	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.17	U	0.6	U	0.21	U	0.17	U	0.18	U	0.17	U	0.19	U	0.17	U	0.21	U
1,2-Dichlorobenzene	95-50-1	mg/kg	1.1	100	500	1.1	0.19	U	0.22	U	0.19	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.17	U	0.6	U	0.21	U	0.17	U	0.18	U	0.17	U	0.19	U	0.17	U	0.21	U
1,3-Dichlorobenzene	541-73-1	mg/kg	2.6	38	280	2.6	0.19	U	0.22	U	0.19	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.17	U	0.6	U	0.21	U	0.17	U	0.18	U	0.17	U	0.19	U	0.17	U	0.21	U
1,4-Dichlorobenzene	106-46-7	mg/kg	1.8	24	130	1.8	0.19	U	0.22	U	0.19	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.17	U	0.6	U	0.21	U	0.17	U	0.18	U	0.17	U	0.19	U	0.17	U	0.21	U
1,4-Dioxane	123-91-1	mg/kg	0.1	5.7	36	0.1	0.029	U	0.032	U	0.028	U	0.027	U	0.027	U	0.027	U	0.028	U	0.027	U	0.026	U	0.09	U	0.032	U	0.026	U	0.027	U	0.026	U	0.028	U	0.026	U	0.032	U
2,2'-Oxybis(1-chloropropane)	108-60-1	mg/kg	NS	NS	NS	NS	0.23	U	0.26	U	0.22	U	0.21	U	0.22	U	0.21	U	0.22	U	0.21	U	0.21	U	0.72	U	0.25	U	0.2	U	0.22	U	0.2	U	0.23	U	0.21	U	0.26	U
2,3,4,6-Tetrachlorophenol	58-90-2	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
2,4,5-Trichlorophenol	95-95-4	mg/kg	NS	NS	NS	NS	0.19	U	0.22	U	0.19	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.17	U	0.6	U	0.21	U	0.17	U	0.18	U	0.17	U	0.19	U	0.17	U	0.21	U
2,4,6-Trichlorophenol	88-06-2	mg/kg	NS	NS	NS	NS	0.12	U	0.13	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.1	U	0.36	U	0.13	U	0.1	U	0.11	U	0.1	U	0.11	U	0.1	U	0.13	U
2,4-Dichlorophenol	120-83-2	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	0.17	U	0.16	U	0.16	U	0.16	U	0.17	U	0.16	U	0.15	U	0.54	U	0.19	U	0.15	U	0.16	U	0.15	U	0.17	U	0.16	U	0.19	U
2,4-Dimethylphenol	105-67-9	mg/kg	NS	NS	NS	NS	0.19	U	0.22	U	0.19	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.17	U	0.6	U	0.21	U	0.17	U	0.18	U	0.17	U	0.19	U	0.17	U	0.21	U
2,4-Dinitrophenol	51-28-5	mg/kg	NS	NS	NS	NS	0.93	U	1	U	0.9	U	0.85	U	0.86	U	0.85	U	0.9	U	0.85	U	0.82	U	2.9	U	1	U	0.82	U	0.87	U	0.82	U	0.91	U	0.83	U	1	U
2,4-Dinitrotoluene	121-14-2	mg/kg	NS	NS	NS	NS	0.19	U	0.22	U	0.19	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.17	U	0.6	U	0.21	U	0.17	U	0.18	U	0.17	U	0.19	U	0.17	U	0.21	U
2,6-Dinitrotoluene	606-20-2	mg/kg	NS	NS	NS	NS	0.19	U	0.22	U	0.19	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.17	U	0.6	U	0.21	U	0.17	U	0.18	U	0.17	U	0.19	U	0.17	U	0.21	U
2-Chloronaphthalene	91-58-7	mg/kg	NS	NS	NS	NS	0.19	U	0.22	U	0.19	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.17	U	0.6	U	0.21	U	0.17	U	0.18	U	0.17	U	0.19	U	0.17	U	0.21	U
2-Chlorophenol	95-57-8	mg/kg	NS	NS	NS	NS	0.19	U	0.22	U	0.19	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.17	U	0.6	U	0.21	U	0.17	U	0.18	U	0.17	U	0.19	U	0.17	U	0.21	U
2-Methylnaphthalene	91-57-6	mg/kg	NS	NS	NS	NS	0.23	U	0.26	U	0.22	U	0.21	U	0.22	U	0.21	U	0.22	U	0.21	U	0.21	U	0.72	U	0.25	U	0.2	U	0.22	U	0.2	U	0.23	U	0.21	U	0.81	
2-Methylphenol	95-48-7	mg/kg	0.33	100	500	0.33	0.19	U	0.22	U	0.19	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.17	U	0.6	U	0.21	U	0.17	U	0.18	U	0.17	U	0.19	U	0.17	U	0.21	U
2-Nitroaniline	88-74-4	mg/kg	NS	NS	NS	NS	0.19	U	0.22	U	0.19	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.17	U	0.6	U	0.21	U	0.17	U	0.18	U	0.17	U	0.19	U	0.17	U	0.21	U
2-Nitrophenol	88-75-5	mg/kg	NS	NS	NS	NS	0.42	U	0.47	U	0.4	U	0.38	U	0.39	U	0.38	U	0.4	U	0.38	U	0.37	U	1.3	U	0.46	U	0.37	U	0.39	U	0.37	U	0.41	U	0.37	U	0.46	U
3&4-Methylphenol	108-39-4/106-44-5	mg/kg	NS	NS	NS	NS	0.28	U	0.31	U	0.27	U	0.26	U	0.26	U	0.26	U	0.27	U	0.26	U	0.25	U	0.86	U	0.3	U	0.25	U	0.26	U	0.25	U	0.27	U	0.25	U	0.31	U
3,3'-Dichlorobenzidine	91-94-1	mg/kg	NS	NS	NS	NS	0.19	U	0.22	U	0.19	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.17	U	0.6	U	0.21	U	0.17	U	0.18	U	0.17	U	0.19	U	0.17	U	0.21	U
3-Nitroaniline	99-09-2	mg/kg	NS	NS	NS	NS	0.19	U	0.22	U	0.19	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.17	U	0.6	U	0.21	U	0.17	U	0.18	U	0.17	U	0.19	U	0.17	U	0.21	U
4,6-Dinitro-o-cresol	534-52-1	mg/kg	NS	NS	NS	NS	0.51	U	0.56	U	0.49	U	0.46	U	0.47	U	0.46	U	0.49	U	0.46	U	0.45	U	1.6	U	0.55	U	0.44	U	0.47	U	0.44	U	0.49	U	0.45	U	0.56	U
4-Bromophenyl phenyl ether	101-55-3	mg/kg	NS	NS	NS	NS	0.19	U	0.22	U	0.19	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.17	U	0.6	U	0.21	U	0.17	U	0.18	U	0.17	U	0.19	U	0.17	U	0.21	U
4-Chloro-3-methyl phenol	59-50-7	mg/kg	NS	NS	NS	NS	0.19	U	0.22	U	0.19	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.17	U	0.6	U	0.21	U	0.17	U	0.18	U	0.17	U	0.19	U	0.17	U	0.21	U
4-Chloroaniline	106-47-8	mg/kg	NS	NS	NS	NS	0.19	U	0.22	U	0.19	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.17	U	0.6	U	0.21	U	0.17	U	0.18	U	0.17	U	0.19	U	0.17	U	0.21	U
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	NS	NS	NS	NS	0.19	U	0.22	U	0.19	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.17	U	0.6	U	0.21	U	0.17	U	0.18	U	0.17	U	0.19	U	0.17	U	0.21	U
4-Nitroaniline	100-01-6	mg/kg	NS	NS	NS	NS	0.19	U	0.22	U	0.19	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.17	U	0.6	U	0.21	U	0.17	U	0.18	U	0.17	U	0.19	U	0.17	U	0.21	U
4-Nitrophenol	100-02-7	mg/kg	NS	NS	NS	NS	0.27	U	0.3	U	0.26	U	0.25	U	0.25	U	0.25	U	0.26	U	0.25	U	0.24	U	0.84	U	0.3	U	0.24	U	0.25	U	0.24	U	0.26	U	0.24	U	0.3	U
Acenaphthene	83-32-9	mg/kg	20	100	500	98	0.16	U	0.17	U	0.15	U	0.14	U	0.14	U	0.14	U	0.15	U	0.14	U	0.14	U	0.48	U	0.17	U	0.14	U	0.14	U	0.14	U	0.15	U	0.14	U	0.17	U
Acenaphthylene	208-96-8	mg/kg	100	100	500	365	0.16	U	0.17	U	0.15	U	0.14	U	0.14	U	0.14	U	0.15	U	0.14	U	0.14	U	0.48	U	0.17	U	0.14	U	0.14	U	0.14	U	0.15	U	0.14	U	0.17	U
Acetophenone	98-86-2	mg/kg	NS	NS	NS	NS	0.19	U	0.22	U	0.19	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.17	U	0.6	U	0.21	U	0.17	U	0.18	U	0.17	U	0.19	U	0.17	U	0.21	U
Anthracene	120-12-7	mg/kg	100	100	500	1000	0.12	U	0.13	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.1	U	0.36	U	0.13	U	0.1	U	0.11	U	0.1	U	0.11	U	0.1	U	0.13	U
Atrazine	1912-24-9	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Benzaldehyde	100-52-7	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Benzo(a)anthracene	56-55-3	mg/kg	1	1.4	37	1	0.026	J	0.13	U	0.11	U	0.11	U	0.16		0.074	J	0.022	J	0.11	U	0.1	U	0.36	U	0.13	U	0.1	U	0.11	U	0.1	U	0.11	U	0.1	U	0.13	U
Benzo(a)pyrene	50-32-8	mg/kg	1	1	3.7	22	0.16	U	0.17	U	0.15	U	0.14	U	0.14		0.079	J	0.15	U	0.14	U	0.14	U	0.48	U	0.17	U	0.14	U	0.14	U	0.14	U	0.15	U	0.14	U	0.17	U
Benzo(b)fluoranthene	205-99-2	mg/kg	1	1.4	37	2.1	0.12	U	0.13	U	0.11	U	0.11	U	0.2		0.093	J	0.034	J	0.11	U	0.1	U	0.36	U	0.13	U	0.1	U	0.11	U	0.1	U	0.11	U	0.1	U	0.13	U
Benzo(g,h,i)perylene	191-24-2	mg/kg	0.64	4.9	47	1000	0.16	U	0.17	U	0.15	U	0.14	U	0.14	U	0.096	J	0.061	J	0.025	J	0.14	U	0.14	U	0.48	U	0.17	U	0.14	U	0.14	U	0.14	U	0.15	U	0.14	U	0.17	U
Benzo(k)fluoranthene	207-08-9	mg/kg	0.8	4.9	47	2	0.12	U	0.13	U	0.11	U	0.11	U	0.11	U	0.056	J	0.11	U	0.11	U	0.1	U	0.36	U	0.13	U	0.1	U	0.11	U	0.1	U	0.11	U	0.1	U	0.13	U
Benzoic Acid	65-85-0	mg/kg	NS	NS	NS	NS	0.63	U	0.7	U	0.61	U	0.58	U	0.58	U	0.58	U	0.61	U	0.58	U	0.56	U	1.9	U	0.68	U	0.55	U	0.58	U	0.55	U	0.61	U	0.56	U	0.69	U
Benzyl Alcohol	100-51-6	mg/kg	NS	NS	NS	NS	0.19	U	0.22	U	0.19	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.17	U	0.6	U	0.21	U	0.17	U	0.18	U	0.17	U	0.19	U	0.17	U	0.21	U
bis(2-Chloroethoxy)methane	111-91-1	mg/kg	NS	NS	NS	NS	0.21	U	0.23	U	0.2	U	0.19	U	0.19	U	0.19	U	0.2	U	0.19	U	0.18	U	0.64	U	0.23	U	0.18	U	0.2	U	0.18	U	0.2	U	0.19	U	0.23	U
bis(2-Chloroethyl)ether	111-44-4	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	0.17	U	0.16	U	0.16	U	0.16	U	0.17	U	0.16	U	0.15	U	0.54	U	0.19	U	0.15	U	0.16	U	0.15	U	0.17	U	0.16	U	0.19	U
bis(2-Ethylhexyl)phthalate	117-81-7	mg/kg	NS	NS	NS	NS	0.19	U	0.22	U	0.19	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.17	U	0.6	U	0.21	U	0.17	U	0.18	U	0.17	U	0.19	U	0.17	U	0.21	U
Butyl benzyl phthalate	85-68-7	mg/kg	NS	NS	NS	NS	0.19	U	0.22	U	0.19	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.17	U	0.6	U	0.21	U	0.17	U	0.18	U	0.17	U	0.19	U	0.17	U	0.21	U
Caprolactam	105-60-2	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Carbazole	86-74-8	mg/kg	NS	NS	NS	NS	0.19	U	0.22	U	0.19	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.17	U	0.6	U	0.21	U	0.17	U	0.18	U	0.17	U	0.19	U	0.17	U	0.022	J
Chrysene	218-01-9	mg/kg	1	4.9	47	1	0.022	J	0.13	U	0.11	U	0.11	U	0.15		0.061	J	0.033	J	0.11	U	0.1	U	0.36	U	0.13	U	0.1	U	0.11	U	0.1	U	0.11	U	0.1	U	0.13	U
Dibenzo(a,h)anthracene	53-70-3	mg/kg	0.33	0.33	3.7	1000	0.12	U	0.13	U	0.11	U	0.11	U	0.021	J	0.11	U	0.11	U	0.11	U	0.1	U	0.36	U	0.13	U	0.1	U	0.11	U	0.1	U	0.11	U	0.1	U	0.13	U
Dibenzofuran	132-64-9	mg/kg	2.1	18	180	110	0.19	U	0.22	U	0.19	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.17	U	0.6	U	0.21	U	0.17	U	0.18	U	0.17	U	0.19	U	0.17	U	0.21	U
Diethyl phthalate	84-66-2	mg/kg	NS	NS	NS	NS	0.19	U	0.22	U	0.19	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.17	U	0.6	U	0.21	U	0.17	U	0.18	U	0.17	U	0.19	U	0.17	U	0.21	U
Dimethyl phthalate	131-11-3	mg/kg	NS	NS	NS	NS	0.19	U	0.22	U	0.19	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.17	U	0.6	U	0.21	U	0.17	U	0.18	U	0.17	U	0.19	U	0.17	U	0.21	U
Di-n-butyl phthalate	84-74-2	mg/kg	NS	NS	NS	NS	0.19	U	0.22	U	0.19	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.17	U	0.6	U	0.21	U	0.17	U	0.18	U	0.17	U	0.19	U	0.17	U	0.21	U
Di-n-octyl phthalate	117-84-0	mg/kg	NS	NS	NS	NS	0.19	U	0.22	U	0.19	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.17	U	0.6	U	0.21	U	0.17	U	0.18	U	0.17	U	0.19	U	0.17	U	0.21	U
Fluoranthene	206-44-0	mg/kg	85	100	500	1000	0.043	J	0.13	U	0.11	U	0.11	U	0.3		0.12		0.046	J	0.11	U	0.1	U	0.36	U	0.13	U	0.1	U	0.11	U	0.1	U	0.11	U	0.1	U	0.13	U
Fluorene	86-73-7	mg/kg	30	100	500	386	0.19	U	0.22	U	0.19	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.17	U	0.6	U	0.21	U	0.17	U	0.18	U	0.17	U	0.19	U	0.17	U	0.21	U
Hexachlorobenzene	118-74-1	mg/kg	0.33	0.33	1.8	3.2	0.12	U	0.13	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.1	U	0.36	U	0.13	U	0.1	U	0.11	U	0.1	U	0.11	U	0.1	U	0.13	U
Hexachlorobutadiene	87-68-3	mg/kg	NS	NS	NS	NS	0.19	U	0.22	U	0.19	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.17	U	0.6	U	0.21	U	0.17	U	0.18	U	0.17	U	0.19	U	0.17	U	0.21	U
Hexachlorocyclopentadiene	77-47-4	mg/kg	NS	NS	NS	NS	0.56	U	0.62	U	0.54	U	0.51	U	0.51	U	0.51	U	0.54	U	0.51	U	0.49	U	1.7	U	0.6	U	0.49	U	0.52	U	0.49	U	0.54	U	0.49	U	0.61	U
Hexachloroethane	67-72-1	mg/kg	NS	NS	NS	NS	0.16	U	0.17	U	0.15	U	0.14	U	0.14	U	0.14	U	0.15	U	0.14	U	0.14	U	0.48	U	0.17	U	0.14	U	0.14	U	0.14	U	0.15	U	0.14	U	0.17	U
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0.5	1.4	37	6.6	0.16	U	0.17	U	0.15	U	0.14	U	0.14	U	0.092	J	0.052	J	0.15	U	0.14	U	0.14	U	0.48	U	0.17	U	0.14	U	0.14	U	0.14	U	0.15	U	0.14	U	0.17	U
Isophorone	78-59-1	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	0.17	U	0.16	U	0.16	U	0.16	U	0.17	U	0.16	U	0.15	U	0.54	U	0.19	U	0.15	U	0.16	U	0.15	U	0.17	U	0.16	U	0.19	U
Naphthalene	91-20-3	mg/kg	12	100	500	12	0.19	U	0.22	U	0.19	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.17	U	0.6	U	0.21	U	0.17	U	0.18	U	0.17	U	0.19	U	0.17	U	0.15	J
Nitrobenzene	98-95-3	mg/kg	0.08	1.8	8.9	0.08	0.18	U	0.19	U	0.17	U	0.16	U	0.16	U	0.16	U	0.17	U	0.16	U	0.15	U	0.54	U	0.19	U	0.15	U	0.16	U	0.15	U	0.17	U	0.16	U	0.19	U
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	NS	NS	NS	NS	0.19	U	0.22	U	0.19	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.17	U	0.6	U	0.21	U	0.17	U	0.18	U	0.17	U	0.19	U	0.17	U	0.21	U
N-Nitrosodiphenylamine	86-30-6	mg/kg	NS	NS	NS	NS	0.16	U	0.17	U	0.15	U	0.14	U	0.14	U	0.14	U	0.15	U	0.14	U	0.14	U	0.48	U	0.17	U	0.14	U	0.14	U	0.14	U	0.15	U	0.14	U	0.17	U
Pentachlorophenol	87-86-5	mg/kg	0.8	1.3	6.9	0.8	0.16	U	0.17	U	0.15	U	0.14	U	0.14	U	0.14	U	0.15	U	0.14	U	0.14	U	0.48	U	0.17	U	0.14	U	0.14	U	0.14	U	0.15	U	0.14	U	0.17	U
Phenanthrene	85-01-8	mg/kg	1.1	4.9	47	1000	0.025	J	0.13	U	0.11	U	0.11	U	0.097	J	0.026	J	0.11	U	0.11	U	0.1	U	0.36	U	0.13	U	0.1	U	0.11	U	0.1	U	0.11	U	0.1	U	0.13	U
Phenol	108-95-2	mg/kg	0.33	100	500	0.33	0.19	U	0.22	U	0.19	U	0.18	U	0.18	U	0.18	U	0.19	U	0.18	U	0.17	U	0.6	U	0.21	U	0.17	U	0.18	U	0.17	U	0.19	U	0.17	U	0.21	U
Pyrene	129-00-0	mg/kg	64	100	500	1000	0.035	J	0.13	U	0.11	U	0.11	U	0.25		0.11		0.04	J	0.11	U	0.1	U	0.36	U	0.13	U	0.1	U	0.11	U	0.1	U	0.11	U	0.1	U	0.022	J
Total TIC, Semi-Volatile	-	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs

Concentration Exceeds NYSDEC RRUSCOs

Concentration Exceeds NYSDEC UUSCOs

Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-44 (2-3)		SB-45 (1-2)		SB-45 (1-2)		SB-45 (9-10)		SB-46 (1-2)		SB-46 (7-8)		SB-47 (4-5)		SB-47 (9-10)		SB-50 (4-5)		SB-50 (6.5-7.5)		SB-51 (2-3)		SB-51 (9-10)		SB-52 (2-3)		SB-52 (7.5-8.5)		SB-56 (1-2)		SB-56 (9-10)		SB-56 (11-12)	
LAB SAMPLE ID:							L2553523-01		L2550303-11		L2550303-11 R1		L2550303-12		L2553533-01		L2553533-02		L2553536-01		L2553536-02		L2550303-22		L2550303-23		L2550303-24		L2550303-25		L2553523-02		L2553523-03		L2550665-01		L2550665-02		L2550665-03	
SAMPLE DATE:							8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/12/2025		8/12/2025			
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL			
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
SVOCs (SW846 8270E)																																								
1,1'-Biphenyl	92-52-4	mg/kg	NS	NS	NS	NS	0.4	U	0.4	U	-		0.42	U	0.4	U	0.42	U	0.41	U	0.42	U	0.42	U	0.39	U	0.46	U	0.49	U	0.4	U	0.42	U	0.41	U	0.41	U	0.44	U
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	NS	NS	NS	NS	0.18	U	0.17	U	-		0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.2	U	0.21	U	0.17	U	0.18	U	0.18	U	0.18	U	0.19	U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	NS	NS	NS	NS	0.18	U	0.17	U	-		0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.2	U	0.21	U	0.17	U	0.18	U	0.18	U	0.18	U	0.19	U
1,2-Dichlorobenzene	95-50-1	mg/kg	1.1	100	500	1.1	0.18	U	0.17	U	-		0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.2	U	0.21	U	0.17	U	0.18	U	0.18	U	0.18	U	0.19	U
1,3-Dichlorobenzene	541-73-1	mg/kg	2.6	38	280	2.6	0.18	U	0.17	U	-		0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.2	U	0.21	U	0.17	U	0.18	U	0.18	U	0.18	U	0.19	U
1,4-Dichlorobenzene	106-46-7	mg/kg	1.8	24	130	1.8	0.18	U	0.17	U	-		0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.2	U	0.21	U	0.17	U	0.18	U	0.18	U	0.18	U	0.19	U
1,4-Dioxane	123-91-1	mg/kg	0.1	5.7	36	0.1	0.026	U	0.026	U	-		0.028	U	0.026	U	0.028	U	0.027	U	0.028	U	0.028	U	0.026	U	0.03	U	0.032	U	0.026	U	0.028	U	0.027	U	0.027	U	0.029	U
2,2'-Oxybis(1-chloropropane)	108-60-1	mg/kg	NS	NS	NS	NS	0.21	U	0.21	U	-		0.22	U	0.21	U	0.22	U	0.22	U	0.22	U	0.22	U	0.2	U	0.24	U	0.26	U	0.21	U	0.22	U	0.22	U	0.21	U	0.23	U
2,3,4,6-Tetrachlorophenol	58-90-2	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
2,4,5-Trichlorophenol	95-95-4	mg/kg	NS	NS	NS	NS	0.18	U	0.17	U	-		0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.2	U	0.21	U	0.17	U	0.18	U	0.18	U	0.18	U	0.19	U
2,4,6-Trichlorophenol	88-06-2	mg/kg	NS	NS	NS	NS	0.1	U	0.1	U	-		0.11	U	0.1	U	0.11	U	0.11	U	0.11	U	0.11	U	0.1	U	0.12	U	0.13	U	0.1	U	0.11	U	0.11	U	0.11	U	0.11	U
2,4-Dichlorophenol	120-83-2	mg/kg	NS	NS	NS	NS	0.16	U	0.16	U	-		0.17	U	0.16	U	0.16	U	0.16	U	0.16	U	0.17	U	0.15	U	0.18	U	0.19	U	0.16	U	0.17	U	0.16	U	0.16	U	0.17	U
2,4-Dimethylphenol	105-67-9	mg/kg	NS	NS	NS	NS	0.18	U	0.17	U	-		0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.2	U	0.21	U	0.17	U	0.18	U	0.18	U	0.18	U	0.19	U
2,4-Dinitrophenol	51-28-5	mg/kg	NS	NS	NS	NS	0.84	U	0.83	U	-		0.89	U	0.84	U	0.88	U	0.87	U	0.88	U	0.89	U	0.82	U	0.97	U	1	U	0.83	U	0.89	U	0.87	U	0.86	U	0.92	U
2,4-Dinitrotoluene	121-14-2	mg/kg	NS	NS	NS	NS	0.18	U	0.17	U	-		0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.2	U	0.21	U	0.17	U	0.18	U	0.18	U	0.18	U	0.19	U
2,6-Dinitrotoluene	606-20-2	mg/kg	NS	NS	NS	NS	0.18	U	0.17	U	-		0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.2	U	0.21	U	0.17	U	0.18	U	0.18	U	0.18	U	0.19	U
2-Chloronaphthalene	91-58-7	mg/kg	NS	NS	NS	NS	0.18	U	0.17	U	-		0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.2	U	0.21	U	0.17	U	0.18	U	0.18	U	0.18	U	0.19	U
2-Chlorophenol	95-57-8	mg/kg	NS	NS	NS	NS	0.18	U	0.17	U	-		0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.2	U	0.21	U	0.17	U	0.18	U	0.18	U	0.18	U	0.19	U
2-Methylnaphthalene	91-57-6	mg/kg	NS	NS	NS	NS	0.21	U	0.21	U	-		0.22	U	0.21	U	0.22	U	0.22	U	0.22	U	0.22	U	0.2	U	0.24	U	0.18	J	0.21	U	0.26		0.044	J	0.21	U	0.23	U
2-Methylphenol	95-48-7	mg/kg	0.33	100	500	0.33	0.18	U	0.17	U	-		0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.2	U	0.21	U	0.17	U	0.18	U	0.18	U	0.18	U	0.19	U
2-Nitroaniline	88-74-4	mg/kg	NS	NS	NS	NS	0.18	U	0.17	U	-		0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.2	U	0.21	U	0.17	U	0.18	U	0.18	U	0.18	U	0.19	U
2-Nitrophenol	88-75-5	mg/kg	NS	NS	NS	NS	0.38	U	0.38	U	-		0.4	U	0.38	U	0.4	U	0.39	U	0.4	U	0.4	U	0.37	U	0.44	U	0.46	U	0.37	U	0.4	U	0.39	U	0.38	U	0.41	U
3&4-Methylphenol	108-39-4/106-44-5	mg/kg	NS	NS	NS	NS	0.25	U	0.25	U	-		0.27	U	0.25	U	0.26	U	0.26	U	0.26	U	0.27	U	0.25	U	0.29	U	0.31	U	0.25	U	0.27	U	0.26	U	0.26	U	0.28	U
3,3'-Dichlorobenzidine	91-94-1	mg/kg	NS	NS	NS	NS	0.18	U	0.17	U	-		0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.2	U	0.21	U	0.17	U	0.18	U	0.18	U	0.18	U	0.19	U
3-Nitroaniline	99-09-2	mg/kg	NS	NS	NS	NS	0.18	U	0.17	U	-		0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.2	U	0.21	U	0.17	U	0.18	U	0.18	U	0.18	U	0.19	U
4,6-Dinitro-o-cresol	534-52-1	mg/kg	NS	NS	NS	NS	0.46	U	0.45	U	-		0.48	U	0.46	U	0.48	U	0.47	U	0.48	U	0.48	U	0.44	U	0.52	U	0.56	U	0.45	U	0.48	U	0.47	U	0.46	U	0.5	U
4-Bromophenyl phenyl ether	101-55-3	mg/kg	NS	NS	NS	NS	0.18	U	0.17	U	-		0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.2	U	0.21	U	0.17	U	0.18	U	0.18	U	0.18	U	0.19	U
4-Chloro-3-methyl phenol	59-50-7	mg/kg	NS	NS	NS	NS	0.18	U	0.17	U	-		0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.2	U	0.21	U	0.17	U	0.18	U	0.18	U	0.18	U	0.19	U
4-Chloroaniline	106-47-8	mg/kg	NS	NS	NS	NS	0.18	U	0.17	U	-		0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.2	U	0.21	U	0.17	U	0.18	U	0.18	U	0.18	U	0.19	U
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	NS	NS	NS	NS	0.18	U	0.17	U	-		0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.2	U	0.21	U	0.17	U	0.18	U	0.18	U	0.18	U	0.19	U
4-Nitroaniline	100-01-6	mg/kg	NS	NS	NS	NS	0.18	U	0.17	U	-		0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.2	U	0.21	U	0.17	U	0.18	U	0.18	U	0.18	U	0.19	U
4-Nitrophenol	100-02-7	mg/kg	NS	NS	NS	NS	0.25	U	0.24	U	-		0.26	U	0.25	U	0.26	U	0.25	U	0.26	U	0.26	U	0.24	U	0.28	U	0.3	U	0.24	U	0.26	U	0.25	U	0.25	U	0.27	U
Acenaphthene	83-32-9	mg/kg	20	100	500	98	0.14	U	0.14	U	-		0.15	U	0.14	U	0.15	U	0.14	U	0.15	U	0.15	U	0.14	U	0.16	U	0.17	U	0.14	U	0.15	U	0.062	J	0.14	U	0.15	U
Acenaphthylene	208-96-8	mg/kg	100	100	500	365	0.04	J	0.044	J	-		0.15	U	0.14	U	0.15	U	0.14	U	0.15	U	0.15	U	0.14	U	0.16	U	0.17	U	0.14	U	0.15	U	0.18		0.14	U	0.15	U
Acetophenone	98-86-2	mg/kg	NS	NS	NS	NS	0.18	U	0.17	U	-		0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.2	U	0.21	U	0.17	U	0.18	U	0.18	U	0.18	U	0.19	U
Anthracene	120-12-7	mg/kg	100	100	500	1000	0.1	U	0.1	U	-		0.11	U	0.1	U	0.11	U	0.11	U	0.11	U	0.11	U	0.1	U	0.12	U	0.13	U	0.1	U	0.11	U	0.32		0.11	U	0.11	U
Atrazine	1912-24-9	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Benzaldehyde	100-52-7	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Benzo(a)anthracene	56-55-3	mg/kg	1	1.4	37	1	0.065	J	0.13		-		0.11	U	0.1	U	0.11	U	0.11	U	0.11	U	0.11	U	0.1	U	0.12	U	0.13	U	0.077	J	0.11	U	1.9		0.11	U	0.11	U
Benzo(a)pyrene	50-32-8	mg/kg	1	1	3.7	22	0.081	J	0.18		-		0.15	U	0.14	U	0.15	U	0.14	U	0.15	U	0.15	U	0.14	U	0.16	U	0.17	U	0.08	J	0.15	U	1.9		0.14	U	0.15	U
Benzo(b)fluoranthene	205-99-2	mg/kg	1	1.4	37	2.1	0.12		0.24		-		0.11	U	0.1	U	0.11	U	0.11	U	0.11	U	0.11	U	0.1	U	0.12	U	0.13	U	0.093	J	0.11	U	2.9		0.11	U	0.11	U
Benzo(g,h,i)perylene	191-24-2	mg/kg	0.64	4.9	47	1000	0.073	J	0.15		-		0.15	U	0.14	U	0.15	U	0.14	U	0.15	U	0.15	U	0.14	U	0.16	U	0.17	U	0.054	J	0.15	U	1.3		0.14	U	0.15	U
Benzo(k)fluoranthene	207-08-9	mg/kg	0.8	4.9	47	2	0.034	J	0.081	J	-		0.11	U	0.1	U	0.11	U	0.11	U	0.11	U	0.11	U	0.1	U	0.12	U	0.13	U	0.043	J	0.11	U	0.67		0.11	U	0.11	U
Benzoic Acid	65-85-0	mg/kg	NS	NS	NS	NS	0.57	U	0.56	U	-		0.6	U	0.57	U	0.6	U	0.58	U	0.6	U	0.6	U	0.55	U	0.65	U	0.69	U	0.56	U	0.6	U	0.59	U	0.58	U	0.62	U
Benzyl Alcohol	100-51-6	mg/kg	NS	NS	NS	NS	0.18	U	0.17	U	-		0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.2	U	0.21	U	0.17	U	0.18	U	0.18	U	0.18	U	0.19	U
bis(2-Chloroethoxy)methane	111-91-1	mg/kg	NS	NS	NS	NS	0.19	U	0.19	U	-		0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U	0.18	U	0.22	U	0.23	U	0.19	U	0.2	U	0.2	U	0.19	U	0.21	U
bis(2-Chloroethyl)ether	111-44-4	mg/kg	NS	NS	NS	NS	0.16	U	0.16	U	-		0.17	U	0.16	U	0.16	U	0.16	U	0.16	U	0.17	U	0.15	U	0.18	U	0.19	U	0.16	U	0.17	U	0.16	U	0.16	U	0.17	U
bis(2-Ethylhexyl)phthalate	117-81-7	mg/kg	NS	NS	NS	NS	0.18	U	12		9.2	E	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.2	U	0.21	U	0.17	U	0.18	U	0.18	U	0.18	U	0.19	U
Butyl benzyl phthalate	85-68-7	mg/kg	NS	NS	NS	NS	0.18	U	0.17	U	-		0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.2	U	0.21	U	0.17	U	0.18	U	0.18	U	0.18	U	0.19	U
Caprolactam	105-60-2	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Carbazole	86-74-8	mg/kg	NS	NS	NS	NS	0.18	U	0.17	U	-		0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.2	U	0.21	U	0.17	U	0.18	U	0.17	J	0.18	U	0.19	U
Chrysene	218-01-9	mg/kg	1	4.9	47	1	0.088	J	0.15		-		0.11	U	0.1	U	0.11	U	0.11	U	0.11	U	0.11	U	0.1	U	0.12	U	0.13	U	0.074	J	0.11	U	1.8		0.11	U	0.11	U
Dibenzo(a,h)anthracene	53-70-3	mg/kg	0.33	0.33	3.7	1000	0.1	U	0.03	J	-		0.11	U	0.1	U	0.11	U	0.11	U	0.11	U	0.11	U	0.1	U	0.12	U	0.13	U	0.1	U	0.11	U	0.28		0.11	U	0.11	U
Dibenzofuran	132-64-9	mg/kg	2.1	18	180	110	0.18	U	0.17	U	-		0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.2	U	0.21	U	0.17	U	0.18	U	0.057	J	0.18	U	0.19	U
Diethyl phthalate	84-66-2	mg/kg	NS	NS	NS	NS	0.18	U	0.17	U	-		0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.2	U	0.21	U	0.17	U	0.18	U	0.18	U	0.18	U	0.19	U
Dimethyl phthalate	131-11-3	mg/kg	NS	NS	NS	NS	0.18	U	0.17	U	-		0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.2	U	0.21	U	0.17	U	0.18	U	0.18	U	0.18	U	0.19	U
Di-n-butyl phthalate	84-74-2	mg/kg	NS	NS	NS	NS	0.18	U	0.054	J	-		0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.2	U	0.21	U	0.07	J	0.18	U	0.18	U	0.18	U	0.19	U
Di-n-octyl phthalate	117-84-0	mg/kg	NS	NS	NS	NS	0.18	U	0.17	U	-		0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.2	U	0.21	U	0.17	U	0.18	U	0.18	U	0.18	U	0.19	U
Fluoranthene	206-44-0	mg/kg	85	100	500	1000	0.1		0.22		-		0.11	U	0.1	U	0.11	U	0.11	U	0.11	U	0.11	U	0.1	U	0.12	U	0.13	U	0.15		0.11	U	3.7		0.11	U	0.11	U
Fluorene	86-73-7	mg/kg	30	100	500	386	0.18	U	0.17	U	-		0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.2	U	0.21	U	0.17	U	0.18	U	0.063	J	0.18	U	0.19	U
Hexachlorobenzene	118-74-1	mg/kg	0.33	0.33	1.8	3.2	0.1	U	0.1	U	-		0.11	U	0.1	U	0.11	U	0.11	U	0.11	U	0.11	U	0.1	U	0.12	U	0.13	U	0.1	U	0.11	U	0.11	U	0.11	U	0.11	U
Hexachlorobutadiene	87-68-3	mg/kg	NS	NS	NS	NS	0.18	U	0.17	U	-		0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.2	U	0.21	U	0.17	U	0.18	U	0.18	U	0.18	U	0.19	U
Hexachlorocyclopentadiene	77-47-4	mg/kg	NS	NS	NS	NS	0.5	U	0.5	U	-		0.53	U	0.5	U	0.52	U	0.52	U	0.52	U	0.53	U	0.49	U	0.58	U	0.61	U	0.5	U	0.53	U	0.52	U	0.51	U	0.55	U
Hexachloroethane	67-72-1	mg/kg	NS	NS	NS	NS	0.14	U	0.14	U	-		0.15	U	0.14	U	0.15	U	0.14	U	0.15	U	0.15	U	0.14	U	0.16	U	0.17	U	0.14	U	0.15	U	0.14	U	0.14	U	0.15	U
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0.5	1.4	37	6.6	0.067	J	0.15		-		0.15	U	0.14	U	0.15	U	0.14	U	0.15	U	0.15	U	0.14	U	0.16	U	0.17	U	0.045	J	0.15	U	1.4		0.14	U	0.15	U
Isophorone	78-59-1	mg/kg	NS	NS	NS	NS	0.16	U	0.16	U	-		0.17	U	0.16	U	0.16	U	0.16	U	0.16	U	0.17	U	0.15	U	0.18	U	0.19	U	0.16	U	0.17	U	0.16	U	0.16	U	0.17	U
Naphthalene	91-20-3	mg/kg	12	100	500	12	0.18	U	0.17	U	-		0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.2	U	0.064	J	0.17	U	0.031	J	0.14	J	0.18	U	0.19	U
Nitrobenzene	98-95-3	mg/kg	0.08	1.8	8.9	0.08	0.16	U	0.16	U	-		0.17	U	0.16	U	0.16	U	0.16	U	0.16	U	0.17	U	0.15	U	0.18	U	0.19	U	0.16	U	0.17	U	0.16	U	0.16	U	0.17	U
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	NS	NS	NS	NS	0.18	U	0.17	U	-		0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.2	U	0.21	U	0.17	U	0.18	U	0.18	U	0.18	U	0.19	U
N-Nitrosodiphenylamine	86-30-6	mg/kg	NS	NS	NS	NS	0.14	U	0.14	U	-		0.15	U	0.14	U	0.15	U	0.14	U	0.15	U	0.15	U	0.14	U	0.16	U	0.17	U	0.14	U	0.15	U	0.14	U	0.14	U	0.15	U
Pentachlorophenol	87-86-5	mg/kg	0.8	1.3	6.9	0.8	0.14	U	0.14	U	-		0.15	U	0.14	U	0.15	U	0.14	U	0.15	U	0.15	U	0.14	U	0.16	U	0.17	U	0.14	U	0.15	U	0.14	U	0.14	U	0.15	U
Phenanthrene	85-01-8	mg/kg	1.1	4.9	47	1000	0.05	J	0.057	J	-		0.11	U	0.1	U	0.11	U	0.11	U	0.11	U	0.11	U	0.1	U	0.12	U	0.13	U	0.062	J	0.11	U	1.2		0.11	U	0.11	U
Phenol	108-95-2	mg/kg	0.33	100	500	0.33	0.18	U	0.17	U	-		0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.18	U	0.17	U	0.2	U	0.21	U	0.17	U	0.18	U	0.18	U	0.18	U	0.19	U
Pyrene	129-00-0	mg/kg	64	100	500	1000	0.1		0.21		-		0.11	U	0.1	U	0.11	U	0.11	U	0.11	U	0.11	U	0.1	U	0.12	U	0.13	U	0.13		0.11	U	3.1		0.11	U	0.11	U
Total TIC, Semi-Volatile	-	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs

Concentration Exceeds NYSDEC RRUSCOs

Concentration Exceeds NYSDEC UUSCOs

Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

TABLE 5.2
SUMMARY OF SOIL SAMPLING RESULTS—SVOCs

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-57 (1-2)		SB-57 (7.5-8.5)		SB-57 (10-11)		SB-58 (4-5)		SB-58 (7.5-8.5)		SB-59 (1-2)		SB-60 (2-3)		SB-60 (6-7)		SB-61 (1-2)		SB-61 (5-6)		SB-62 (4-5)		SB-62 (6-7)		SB-63 (2-3)		SB-63 (7-8)		SB-64 (2-3)		SB-64 (7.5-8.5)	
LAB SAMPLE ID:							L2550665-04		L2550665-05		L2550665-06		L2550665-07		L2550665-08		L2550665-09		L2550665-10		L2550665-11		L2550665-12		L2550665-13		L2550665-14		L2550665-15		L2553571-01		L2553571-02		L2553571-03		L2553571-04	
SAMPLE DATE:							8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
SVOCs (SW846 8270E)																																						
1,1'-Biphenyl	92-52-4	mg/kg	NS	NS	NS	NS	0.42	U	0.43	U	0.41	U	0.39	U	0.42	U	0.39	U	0.4	U	0.4	U	0.42	U	0.42	U	0.42	U	0.41	U	0.45	U	0.42	U	0.4	U	0.4	U
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U
1,2-Dichlorobenzene	95-50-1	mg/kg	1.1	100	500	1.1	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U
1,3-Dichlorobenzene	541-73-1	mg/kg	2.6	38	280	2.6	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U
1,4-Dichlorobenzene	106-46-7	mg/kg	1.8	24	130	1.8	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U
1,4-Dioxane	123-91-1	mg/kg	0.1	5.7	36	0.1	0.028	U	0.028	U	0.027	U	0.026	U	0.028	U	0.025	U	0.026	U	0.026	U	0.028	U	0.028	U	0.027	U	0.027	U	0.03	U	0.027	U	0.026	U	0.026	U
2,2'-Oxybis(1-chloropropane)	108-60-1	mg/kg	NS	NS	NS	NS	0.22	U	0.22	U	0.22	U	0.21	U	0.22	U	0.2	U	0.21	U	0.21	U	0.22	U	0.22	U	0.22	U	0.22	U	0.24	U	0.22	U	0.21	U	0.21	U
2,3,4,6-Tetrachlorophenol	58-90-2	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
2,4,5-Trichlorophenol	95-95-4	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U
2,4,6-Trichlorophenol	88-06-2	mg/kg	NS	NS	NS	NS	0.11	U	0.11	U	0.11	U	0.1	U	0.11	U	0.1	U	0.1	U	0.1	U	0.11	U	0.11	U	0.11	U	0.11	U	0.12	U	0.11	U	0.11	U	0.1	U
2,4-Dichlorophenol	120-83-2	mg/kg	NS	NS	NS	NS	0.17	U	0.17	U	0.16	U	0.15	U	0.16	U	0.15	U	0.16	U	0.16	U	0.17	U	0.16	U	0.16	U	0.16	U	0.18	U	0.16	U	0.16	U	0.16	U
2,4-Dimethylphenol	105-67-9	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U
2,4-Dinitrophenol	51-28-5	mg/kg	NS	NS	NS	NS	0.89	U	0.9	U	0.87	U	0.82	U	0.88	U	0.81	U	0.84	U	0.85	U	0.9	U	0.88	U	0.88	U	0.86	U	0.94	U	0.88	U	0.85	U	0.84	U
2,4-Dinitrotoluene	121-14-2	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U
2,6-Dinitrotoluene	606-20-2	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U
2-Chloronaphthalene	91-58-7	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U
2-Chlorophenol	95-57-8	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U
2-Methylnaphthalene	91-57-6	mg/kg	NS	NS	NS	NS	0.031	J	0.22	U	0.22	U	0.21	U	0.22	U	0.2	U	0.21	U	0.21	U	0.22	U	0.22	U	0.04	J	0.22	U	0.046	J	0.22	U	0.21	U	0.21	U
2-Methylphenol	95-48-7	mg/kg	0.33	100	500	0.33	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U
2-Nitroaniline	88-74-4	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U
2-Nitrophenol	88-75-5	mg/kg	NS	NS	NS	NS	0.4	U	0.4	U	0.39	U	0.37	U	0.4	U	0.37	U	0.38	U	0.38	U	0.4	U	0.4	U	0.39	U	0.39	U	0.42	U	0.39	U	0.38	U	0.38	U
3&4-Methylphenol	108-39-4/106-44-5	mg/kg	NS	NS	NS	NS	0.27	U	0.27	U	0.26	U	0.25	U	0.26	U	0.24	U	0.25	U	0.25	U	0.27	U	0.26	U	0.26	U	0.26	U	0.28	U	0.26	U	0.26	U	0.25	U
3,3'-Dichlorobenzidine	91-94-1	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U
3-Nitroaniline	99-09-2	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U
4,6-Dinitro-o-cresol	534-52-1	mg/kg	NS	NS	NS	NS	0.48	U	0.49	U	0.47	U	0.45	U	0.48	U	0.44	U	0.45	U	0.46	U	0.48	U	0.48	U	0.47	U	0.47	U	0.51	U	0.47	U	0.46	U	0.46	U
4-Bromophenyl phenyl ether	101-55-3	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U
4-Chloro-3-methyl phenol	59-50-7	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U
4-Chloroaniline	106-47-8	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U
4-Nitroaniline	100-01-6	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U
4-Nitrophenol	100-02-7	mg/kg	NS	NS	NS	NS	0.26	U	0.26	U	0.25	U	0.24	U	0.26	U	0.24	U	0.24	U	0.25	U	0.26	U	0.26	U	0.26	U	0.25	U	0.28	U	0.26	U	0.25	U	0.25	U
Acenaphthene	83-32-9	mg/kg	20	100	500	98	0.069	J	0.15	U	0.14	U	0.14	U	0.15	U	0.14	U	0.14	U	0.14	U	0.15	U	0.15	U	0.15	U	0.14	U	0.04	J	0.15	U	0.14	U	0.14	U
Acenaphthylene	208-96-8	mg/kg	100	100	500	365	0.043	J	0.15	U	0.14	U	0.14	U	0.15	U	0.14	U	0.14	U	0.14	U	0.15	U	0.15	U	0.58		0.14	U	0.25		0.15	U	0.14	U	0.14	U
Acetophenone	98-86-2	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U
Anthracene	120-12-7	mg/kg	100	100	500	1000	0.23		0.11	U	0.11	U	0.1	U	0.11	U	0.1	U	0.1	U	0.1	U	0.11	U	0.11	U	0.15		0.11	U	0.31		0.11	U	0.11	U	0.1	U
Atrazine	1912-24-9	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Benzaldehyde	100-52-7	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Benzo(a)anthracene	56-55-3	mg/kg	1	1.4	37	1	0.68		0.11	U	0.11	U	0.1	U	0.11	U	0.1	U	0.1	U	0.1	U	0.2		0.1	J	0.82		0.11	U	2		0.11	U	0.02	J	0.1	U
Benzo(a)pyrene	50-32-8	mg/kg	1	1	3.7	22	0.77		0.15	U	0.14	U	0.14	U	0.15	U	0.14	U	0.14	U	0.14	U	0.21		0.11	J	1.5		0.14	U	2		0.15	U	0.14	U	0.14	U
Benzo(b)fluoranthene	205-99-2	mg/kg	1	1.4	37	2.1	1		0.11	U	0.11	U	0.1	U	0.11	U	0.1	U	0.1	U	0.1	U	0.31		0.16		2		0.11	U	3.1		0.11	U	0.033	J	0.1	U
Benzo(g,h,i)perylene	191-24-2	mg/kg	0.64	4.9	47	1000	0.54		0.15	U	0.14	U	0.14	U	0.15	U	0.14	U	0.14	U	0.14	U	0.14	J	0.083	J	1.5		0.14	U	1.4		0.15	U	0.14	U	0.14	U
Benzo(k)fluoranthene	207-08-9	mg/kg	0.8	4.9	47	2	0.32		0.11	U	0.11	U	0.1	U	0.11	U	0.1	U	0.1	U	0.1	U	0.09	J	0.052	J	0.48		0.11	U	0.7		0.11	U	0.11	U	0.1	U
Benzoic Acid	65-85-0	mg/kg	NS	NS	NS	NS	0.6	U	0.6	U	0.59	U	0.56	U	0.6	U	0.55	U	0.56	U	0.57	U	0.6	U	0.59	U	0.59	U	0.58	U	0.64	U	0.59	U	0.57	U	0.57	U
Benzyl Alcohol	100-51-6	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U
bis(2-Chloroethoxy)methane	111-91-1	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.2	U	0.18	U	0.2	U	0.18	U	0.19	U	0.19	U	0.2	U	0.2	U	0.2	U	0.19	U	0.21	U	0.2	U	0.19	U	0.19	U
bis(2-Chloroethyl)ether	111-44-4	mg/kg	NS	NS	NS	NS	0.17	U	0.17	U	0.16	U	0.15	U	0.16	U	0.15	U	0.16	U	0.16	U	0.17	U	0.16	U	0.16	U	0.16	U	0.18	U	0.16	U	0.16	U	0.16	U
bis(2-Ethylhexyl)phthalate	117-81-7	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U
Butyl benzyl phthalate	85-68-7	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U
Caprolactam	105-60-2	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Carbazole	86-74-8	mg/kg	NS	NS	NS	NS	0.13	J	0.19	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.18	U	0.02	J	0.18	U	0.045	J	0.18	U	0.24		0.18	U	0.18	U	0.18	U
Chrysene	218-01-9	mg/kg	1	4.9	47	1	0.68		0.11	U	0.11	U	0.1	U	0.11	U	0.1	U	0.1	U	0.1	U	0.22		0.11		1		0.11	U	2		0.11	U	0.021	J	0.1	U
Dibenzo(a,h)anthracene	53-70-3	mg/kg	0.33	0.33	3.7	1000	0.13		0.11	U	0.11	U	0.1	U	0.11	U	0.1	U	0.1	U	0.1	U	0.036	J	0.11	U	0.29		0.11	U	0.32		0.11	U	0.11	U	0.1	U
Dibenzofuran	132-64-9	mg/kg	2.1	18	180	110	0.065	J	0.19	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.18	U	0.047	J	0.18	U	0.18	U	0.18	U
Diethyl phthalate	84-66-2	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U
Dimethyl phthalate	131-11-3	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U
Di-n-butyl phthalate	84-74-2	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U
Di-n-octyl phthalate	117-84-0	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U
Fluoranthene	206-44-0	mg/kg	85	100	500	1000	1.1		0.11	U	0.11	U	0.1	U	0.11	U	0.1	U	0.1	U	0.1	U	0.34		0.17		0.68		0.11	U	3.7		0.11	U	0.03	J	0.1	U
Fluorene	86-73-7	mg/kg	30	100	500	386	0.086	J	0.19	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.18	U	0.19	U	0.18	U	0.036	J	0.18	U	0.062	J	0.18	U	0.18	U	0.18	U
Hexachlorobenzene	118-74-1	mg/kg	0.33	0.33	1.8	3.2	0.11	U	0.11	U	0.11	U	0.1	U	0.11	U	0.1	U	0.1	U	0.1	U	0.11	U	0.11	U	0.11	U	0.11	U	0.12	U	0.11	U	0.11	U	0.1	U
Hexachlorobutadiene	87-68-3	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U
Hexachlorocyclopentadiene	77-47-4	mg/kg	NS	NS	NS	NS	0.53	U	0.53	U	0.52	U	0.49	U	0.53	U	0.48	U	0.5	U	0.5	U	0.53	U	0.52	U	0.52	U	0.51	U	0.56	U	0.52	U	0.51	U	0.5	U
Hexachloroethane	67-72-1	mg/kg	NS	NS	NS	NS	0.15	U	0.15	U	0.14	U	0.14	U	0.15	U	0.14	U	0.14	U	0.14	U	0.15	U	0.15	U	0.15	U	0.14	U	0.16	U	0.15	U	0.14	U	0.14	U
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0.5	1.4	37	6.6	0.57		0.15	U	0.14	U	0.14	U	0.15	U	0.14	U	0.14	U	0.14	U	0.15		0.088	J	1.4		0.14	U	1.5		0.15	U	0.14	U	0.14	U
Isophorone	78-59-1	mg/kg	NS	NS	NS	NS	0.17	U	0.17	U	0.16	U	0.15	U	0.16	U	0.15	U	0.16	U	0.16	U	0.17	U	0.16	U	0.16	U	0.16	U	0.18	U	0.16	U	0.16	U	0.16	U
Naphthalene	91-20-3	mg/kg	12	100	500	12	0.066	J	0.19	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.18	U	0.19	U	0.18	U	0.073	J	0.18	U	0.1	J	0.18	U	0.18	U	0.18	U
Nitrobenzene	98-95-3	mg/kg	0.08	1.8	8.9	0.08	0.17	U	0.17	U	0.16	U	0.15	U	0.16	U	0.15	U	0.16	U	0.16	U	0.17	U	0.16	U	0.16	U	0.16	U	0.18	U	0.16	U	0.16	U	0.16	U
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	NS	NS	NS	NS	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U
N-Nitrosodiphenylamine	86-30-6	mg/kg	NS	NS	NS	NS	0.15	U	0.15	U	0.14	U	0.14	U	0.15	U	0.14	U	0.14	U	0.14	U	0.15	U	0.15	U	0.15	U	0.14	U	0.16	U	0.15	U	0.14	U	0.14	U
Pentachlorophenol	87-86-5	mg/kg	0.8	1.3	6.9	0.8	0.15	U	0.15	U	0.14	U	0.14	U	0.15	U	0.14	U	0.14	U	0.14	U	0.15	U	0.15	U	0.15	U	0.14	U	0.16	U	0.15	U	0.14	U	0.14	U
Phenanthrene	85-01-8	mg/kg	1.1	4.9	47	1000	0.81		0.11	U	0.11	U	0.1	U	0.11	U	0.1	U	0.1	U	0.1	U	0.13		0.038	J	0.23		0.11	U	1.4		0.11	U	0.11	U	0.1	U
Phenol	108-95-2	mg/kg	0.33	100	500	0.33	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.17	U	0.17	U	0.18	U	0.19	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U
Pyrene	129-00-0	mg/kg	64	100	500	1000	0.88		0.11	U	0.11	U	0.1	U	0.11	U	0.1	U	0.1	U	0.1	U	0.28		0.15		0.76		0.11	U	3		0.11	U	0.028	J	0.1	U
Total TIC, Semi-Volatile	-	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs
Concentration Exceeds NYSDEC RRUSCOs
Concentration Exceeds NYSDEC UUSCOs
Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

TABLE 5.2
SUMMARY OF SOIL SAMPLING RESULTS—SVOCs

SAMPLE ID:							SB-65 (1-2)		SB-65 (6-7)		SB-66 (0.5-1.5)		SB-66 (8.75-9.75)		SB-68 (2.25-3.25)		SB-68 (5-6)		SB-69 (1-2)		SB-69 (8.75-9.75)		SB-70 (3.5-4.5)		SB-70 (9-10)		SB-70 (9-10)		SB-71 (1-2)		SB-71 (8-9)		SB-71(2.0-2.5)		SB-71(8.5-9.0)		SB-72(2.0-2.5)		SB-72(5.5-6.0)	
LAB SAMPLE ID:							L2550665-20		L2550665-21		L2553509-01		L2553509-02		L2551038-01		L2551038-02		L2551038-03		L2551038-04		L2551038-05		L2551038-06		L2551038-06 R1		L2551039-04		L2551039-05		JE18375-1		JE18375-2		JE18375-8		JE18375-9	
SAMPLE DATE:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	8/12/2025		8/12/2025		8/13/2025		8/13/2025		8/13/2025		8/13/2025		8/13/2025		8/13/2025		8/13/2025		8/13/2025		8/13/2025		8/13/2025		8/13/2025		9/4/2025		9/4/2025		9/4/2025		9/4/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
SVOCs (SW846 8270E)																																								
1,1'-Biphenyl	92-52-4	mg/kg	NS	NS	NS	NS	0.46	U	0.4	U	0.49	U	0.42	U	0.42	U	0.38	U	0.38	U	0.4	U	0.39	U	0.19	J	-		0.42	U	0.42	U	0.071	U	0.068	U	0.07	U	0.0051	J
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.21	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	-		0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.18	U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.21	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	-		0.18	U	0.18	U	-		-		-		-	
1,2-Dichlorobenzene	95-50-1	mg/kg	1.1	100	500	1.1	0.2	U	0.18	U	0.21	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	-		0.18	U	0.18	U	-		-		-		-	
1,3-Dichlorobenzene	541-73-1	mg/kg	2.6	38	280	2.6	0.2	U	0.18	U	0.21	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	-		0.18	U	0.18	U	-		-		-		-	
1,4-Dichlorobenzene	106-46-7	mg/kg	1.8	24	130	1.8	0.2	U	0.18	U	0.21	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	-		0.18	U	0.18	U	-		-		-		-	
1,4-Dioxane	123-91-1	mg/kg	0.1	5.7	36	0.1	0.03	U	0.026	U	0.032	U	0.028	U	0.028	U	0.025	U	0.025	U	0.026	U	0.026	U	0.028	U	-		0.027	U	0.028	U	0.036	U	0.034	U	0.035	U	0.035	U
2,2'-Oxybis(1-chloropropane)	108-60-1	mg/kg	NS	NS	NS	NS	0.24	U	0.21	U	0.26	U	0.22	U	0.22	U	0.2	U	0.2	U	0.21	U	0.21	U	0.22	U	-		0.22	U	0.22	U	0.071	U	0.068	U	0.07	U	0.07	U
2,3,4,6-Tetrachlorophenol	58-90-2	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		0.18	U	0.17	U	0.18	U	0.18	U
2,4,5-Trichlorophenol	95-95-4	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.21	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	-		0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.18	U
2,4,6-Trichlorophenol	88-06-2	mg/kg	NS	NS	NS	NS	0.12	U	0.11	U	0.13	U	0.11	U	0.11	U	0.1	U	0.1	U	0.1	U	0.1	U	0.11	U	-		0.11	U	0.11	U	0.18	U	0.17	U	0.18	U	0.18	U
2,4-Dichlorophenol	120-83-2	mg/kg	NS	NS	NS	NS	0.18	U	0.16	U	0.19	U	0.17	U	0.16	U	0.15	U	0.15	U	0.16	U	0.15	U	0.17	U	-		0.16	U	0.16	U	0.18	U	0.17	U	0.18	U	0.18	U
2,4-Dimethylphenol	105-67-9	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.21	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	-		0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.18	U
2,4-Dinitrophenol	51-28-5	mg/kg	NS	NS	NS	NS	0.96	U	0.85	U	1	U	0.89	U	0.88	U	0.81	U	0.81	U	0.85	U	0.82	U	0.89	U	-		0.88	U	0.88	U	0.18	U	0.17	U	0.18	U	0.18	U
2,4-Dinitrotoluene	121-14-2	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.21	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.11	J	-		0.18	U	0.18	U	0.036	U	0.034	U	0.035	U	0.035	U
2,6-Dinitrotoluene	606-20-2	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.21	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	-		0.18	U	0.18	U	0.036	U	0.034	U	0.035	U	0.035	U
2-Chloronaphthalene	91-58-7	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.21	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	-		0.18	U	0.18	U	0.071	U	0.068	U	0.07	U	0.07	U
2-Chlorophenol	95-57-8	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.21	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	-		0.18	U	0.18	U	0.071	U	0.068	U	0.07	U	0.07	U
2-Methylnaphthalene	91-57-6	mg/kg	NS	NS	NS	NS	0.24	U	0.21	U	0.032	J	0.22	U	0.088	J	0.2	U	0.2	U	0.21	U	0.21	U	12	E	12		0.22	U	0.22	U	0.0302	J	0.0131	J	0.0174	J	0.22	
2-Methylphenol	95-48-7	mg/kg	0.33	100	500	0.33	0.2	U	0.18	U	0.21	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	-		0.18	U	0.18	U	0.071	U	0.068	U	0.07	U	0.07	U
2-Nitroaniline	88-74-4	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.21	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	-		0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.18	U
2-Nitrophenol	88-75-5	mg/kg	NS	NS	NS	NS	0.43	U	0.38	U	0.46	U	0.4	U	0.4	U	0.36	U	0.36	U	0.38	U	0.37	U	0.4	U	-		0.4	U	0.4	U	0.18	U	0.17	U	0.18	U	0.18	U
3&4-Methylphenol	108-39-4/106-44-5	mg/kg	NS	NS	NS	NS	0.29	U	0.25	U	0.31	U	0.27	U	0.26	U	0.24	U	0.24	U	0.25	U	0.25	U	0.27	U	-		0.26	U	0.26	U	0.071	U	0.068	U	0.07	U	0.07	U
3,3'-Dichlorobenzidine	91-94-1	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.21	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	-		0.18	U	0.18	U	0.071	U	0.068	U	0.07	U	0.07	U
3-Nitroaniline	99-09-2	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.21	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	-		0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.18	U
4,6-Dinitro-o-cresol	534-52-1	mg/kg	NS	NS	NS	NS	0.52	U	0.46	U	0.56	U	0.48	U	0.48	U	0.44	U	0.44	U	0.46	U	0.45	U	0.48	U	-		0.48	U	0.48	U	0.18	U	0.17	U	0.18	U	0.18	U
4-Bromophenyl phenyl ether	101-55-3	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.21	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	-		0.18	U	0.18	U	0.071	U	0.068	U	0.07	U	0.07	U
4-Chloro-3-methyl phenol	59-50-7	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.21	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	-		0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.18	U
4-Chloroaniline	106-47-8	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.21	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	-		0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.18	U
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.21	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	-		0.18	U	0.18	U	0.071	U	0.068	U	0.07	U	0.07	U
4-Nitroaniline	100-01-6	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.21	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	-		0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.18	U
4-Nitrophenol	100-02-7	mg/kg	NS	NS	NS	NS	0.28	U	0.25	U	0.3	U	0.26	U	0.26	U	0.24	U	0.24	U	0.25	U	0.24	U	0.26	U	-		0.26	U	0.26	U	0.36	U	0.34	U	0.35	U	0.35	U
Acenaphthene	83-32-9	mg/kg	20	100	500	98	0.16	U	0.14	U	0.12	J	0.15	U	0.15	U	0.14	U	0.13	U	0.14	U	0.14	U	0.027	J	-		0.15	U	0.15	U	0.036	U	0.034	U	0.0879		0.0847	
Acenaphthylene	208-96-8	mg/kg	100	100	500	365	0.16	U	0.14	U	0.25		0.15	U	0.15	U	0.14	U	0.13	U	0.14	U	0.14	U	0.15	U	-		0.12	J	0.15	U	0.0391		0.0344		0.0401		0.0339	J
Acetophenone	98-86-2	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.21	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	-		0.18	U	0.18	U	0.18	U	0.17	U	0.18	U	0.18	U
Anthracene	120-12-7	mg/kg	100	100	500	1000	0.12	U	0.11	U	0.82		0.11	U	0.11	U	0.1	U	0.1	U	0.1	U	0.1	U	0.11	U	-		0.11	U	0.11	U	0.036	U	0.034	U	0.03	J	0.0271	J
Atrazine	1912-24-9	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		0.071	U	0.068	U	0.07	U	0.07	U
Benzaldehyde	100-52-7	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		0.18	U	0.17	U	0.18	U	0.18	U
Benzo(a)anthracene	56-55-3	mg/kg	1	1.4	37	1	0.12	U	0.11	U	4.6		0.11	U	0.11	U	0.1	U	0.1	U	0.1	U	0.1	U	0.11	U	-		0.17		0.11	U	0.036	U	0.0106	J	0.01	J	0.0106	J
Benzo(a)pyrene	50-32-8	mg/kg	1	1	3.7	22	0.16	U	0.14	U	4.6		0.15	U	0.15	U	0.14	U	0.13	U	0.14	U	0.14	U	0.15	U	-		0.32		0.15	U	0.036	U	0.034	U	0.035	U	0.035	U
Benzo(b)fluoranthene	205-99-2	mg/kg	1	1.4	37	2.1	0.12	U	0.11	U	6.5		0.035	J	0.11	U	0.1	U	0.1	U	0.1	U	0.1	U	0.11	U	-		0.67		0.11	U	0.036	U	0.034	U	0.035	U	0.035	U
Benzo(g,h,i)perylene	191-24-2	mg/kg	0.64	4.9	47	1000	0.16	U	0.14	U	3.1		0.15	U	0.15	U	0.14	U	0.13	U	0.14	U	0.14	U	0.15	U	-		0.34		0.15	U	0.036	U	0.034	U	0.035	U	0.035	U
Benzo(k)fluoranthene	207-08-9	mg/kg	0.8	4.9	47	2	0.12	U	0.11	U	1.7		0.11	U	0.11	U	0.1	U	0.1	U	0.1	U	0.1	U	0.11	U	-		0.21		0.11	U	0.036	U	0.034	U	0.035	U	0.035	U
Benzoic Acid	65-85-0	mg/kg	NS	NS	NS	NS	0.65	U	0.57	U	0.69	U	0.6	U	0.6	U	0.55	U	0.55	U	0.57	U	0.56	U	0.6	U	-		0.59	U	0.6	U	-		-		-		-	
Benzyl Alcohol	100-51-6	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.21	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	-		0.18	U	0.18	U	-		-		-		-	
bis(2-Chloroethoxy)methane	111-91-1	mg/kg	NS	NS	NS	NS	0.22	U	0.19	U	0.23	U	0.2	U	0.2	U	0.18	U	0.18	U	0.19	U	0.18	U	0.2	U	-		0.2	U	0.2	U	0.071	U	0.068	U	0.07	U	0.07	U
bis(2-Chloroethyl)ether	111-44-4	mg/kg	NS	NS	NS	NS	0.18	U	0.16	U	0.19	U	0.17	U	0.16	U	0.15	U	0.15	U	0.16	U	0.15	U	0.17	U	-		0.16	U	0.16	U	0.071	U	0.068	U	0.07	U	0.07	U
bis(2-Ethylhexyl)phthalate	117-81-7	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.21	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	-		0.18	U	0.18	U	0.071	U	0.068	U	0.07	U	0.0152	J
Butyl benzyl phthalate	85-68-7	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.21	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	-		0.18	U	0.18	U	0.071	U	0.0085	J	0.07	U	0.07	U
Caprolactam	105-60-2	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		0.071	U	0.068	U	0.07	U	0.07	U
Carbazole	86-74-8	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.53		0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	-		0.073	J	0.18	U	0.071	U	0.068	U	0.07	U	0.07	U
Chrysene	218-01-9	mg/kg	1	4.9	47	1	0.12	U	0.11	U	4.3		0.02	J	0.11	U	0.1	U	0.1	U	0.1	U	0.1	U	0.11	U	-		0.47		0.11	U	0.036	U	0.034	U	0.035	U	0.035	U
Dibenzo(a,h)anthracene	53-70-3	mg/kg	0.33	0.33	3.7	1000	0.12	U	0.11	U	0.58		0.11	U	0.11	U	0.1	U	0.1	U	0.1	U	0.1	U	0.11	U	-		0.067	J	0.11	U	0.036	U	0.034	U	0.035	U	0.035	U
Dibenzofuran	132-64-9	mg/kg	2.1	18	180	110	0.2	U	0.18	U	0.1	J	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	-		0.017	J	0.18	U	0.071	U	0.068	U	0.0176	J	0.0298	J
Diethyl phthalate	84-66-2	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.21	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	-		0.18	U	0.18	U	0.071	U	0.068	U	0.07	U	0.07	U
Dimethyl phthalate	131-11-3	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.21	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	-		0.18	U	0.18	U	0.071	U	0.068	U	0.07	U	0.07	U
Di-n-butyl phthalate	84-74-2	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.21	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	-		0.18	U	0.18	U	0.071	U	0.068	U	0.07	U	0.07	U
Di-n-octyl phthalate	117-84-0	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.21	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	-		0.18	U	0.18	U	0.071	U	0.068	U	0.07	U	0.07	U
Fluoranthene	206-44-0	mg/kg	85	100	500	1000	0.12	U	0.11	U	8		0.032	J	0.11	U	0.1	U	0.1	U	0.1	U	0.1	U	0.028	J	-		0.89		0.11	U	0.036	U	0.034	U	0.035	U	0.016	J
Fluorene	86-73-7	mg/kg	30	100	500	386	0.2	U	0.18	U	0.16	J	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.056	J	-		0.18	U	0.18	U	0.036	U	0.034	U	0.0901		0.0788	
Hexachlorobenzene	118-74-1	mg/kg	0.33	0.33	1.8	3.2	0.12	U	0.11	U	0.13	U	0.11	U	0.11	U	0.1	U	0.1	U	0.1	U	0.1	U	0.11	U	-		0.11	U	0.11	U	0.071	U	0.068	U	0.07	U	0.07	U
Hexachlorobutadiene	87-68-3	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.21	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	-		0.18	U	0.18	U	0.036	U	0.034	U	0.035	U	0.035	U
Hexachlorocyclopentadiene	77-47-4	mg/kg	NS	NS	NS	NS	0.57	U	0.51	U	0.61	U	0.53	U	0.53	U	0.48	U	0.48	U	0.5	U	0.49	U	0.53	U	-		0.52	U	0.53	U	0.36	U	0.34	U	0.35	U	0.35	U
Hexachloroethane	67-72-1	mg/kg	NS	NS	NS	NS	0.16	U	0.14	U	0.17	U	0.15	U	0.15	U	0.14	U	0.13	U	0.14	U	0.14	U	0.15	U	-		0.15	U	0.15	U	0.18	U	0.17	U	0.18	U	0.18	U
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0.5	1.4	37	6.6	0.16	U	0.14	U	3.3		0.15	U	0.15	U	0.14	U	0.13	U	0.14	U	0.14	U	0.15	U	-		0.38		0.15	U	0.036	U	0.034	U	0.035	U	0.035	U
Isophorone	78-59-1	mg/kg	NS	NS	NS	NS	0.18	U	0.16	U	0.19	U	0.17	U	0.16	U	0.15	U	0.15	U	0.16	U	0.15	U	0.17	U	-		0.16	U	0.16	U	0.071	U	0.068	U	0.07	U	0.07	U
Naphthalene	91-20-3	mg/kg	12	100	500	12	0.2	U	0.18	U	0.074	J	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	13	E	17		0.027	J	0.18	U	0.153		0.031	J	0.0373		0.0583	
Nitrobenzene	98-95-3	mg/kg	0.08	1.8	8.9	0.08	0.18	U	0.16	U	0.19	U	0.17	U	0.16	U	0.15	U	0.15	U	0.16	U	0.15	U	0.17	U	-		0.16	U	0.16	U	0.071	U	0.068	U	0.07	U	0.07	U
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	NS	NS	NS	NS	0.2	U	0.18	U	0.21	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	-		0.18	U	0.18	U	0.071	U	0.068	U	0.07	U	0.07	U
N-Nitrosodiphenylamine	86-30-6	mg/kg	NS	NS	NS	NS	0.16	U	0.14	U	0.17	U	0.15	U	0.15	U	0.14	U	0.13	U	0.14	U	0.14	U	0.048	J	-		0.15	U	0.15	U	0.18	U	0.17	U	0.18	U	0.18	U
Pentachlorophenol	87-86-5	mg/kg	0.8	1.3	6.9	0.8	0.16	U	0.14	U	0.17	U	0.15	U	0.15	U	0.14	U	0.13	U	0.14	U	0.14	U	0.15	U	-		0.15	U	0.15	U	0.14	U	0.14	U	0.14	U	0.14	U
Phenanthrene	85-01-8	mg/kg	1.1	4.9	47	1000	0.12	U	0.11	U	3.8		0.11	U	0.11	U	0.1	U	0.1	U	0.1	U	0.1	U	0.078	J	-		0.43		0.11	U	0.0144	J	0.0209	J	0.237		0.245	
Phenol	108-95-2	mg/kg	0.33	100	500	0.33	0.2	U	0.18	U	0.21	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	-		0.18	U	0.18	U	0.071	U	0.068	U	0.07	U	0.07	U
Pyrene	129-00-0	mg/kg	64	100	500	1000	0.12	U	0.11	U	6.7		0.034	J	0.11	U	0.1	U	0.1	U	0.1	U	0.1	U	0.03	J	-		0.61		0.11	U	0.017	J	0.017	J	0.052		0.0501	
Total TIC, Semi-Volatile	-	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		0		0		17.38	J	16.22	J

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs

Concentration Exceeds NYSDEC RRUSCOs

Concentration Exceeds NYSDEC UUSCOs

Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

TABLE 5.2
SUMMARY OF SOIL SAMPLING RESULTS—SVOCs

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-73(1.5-2.0)		SB-73(8.0-8.5)		SB-73(12.5-13)		SB-74 (2.5-3.0)		SB-74 (6.5-7.0)		SB-74 (13.5-14.0)		SB-74 (16.5-17.0)		SB-75 (3.0-3.5)		SB-75 (6.5-7.0)		SB-75 (12.0-12.5)		SB-75 (18.0-18.5)		SB-76 (2.0-2.5)		SB-76 (5.5-6.0)		SB-76 (12.5-13.0)		SB-76 (17.5-18.0)	
LAB SAMPLE ID:							JE18375-3		JE18375-4		JE18375-5		JE18488-9		JE18488-10		JE18488-11		JE18488-12		JE18488-5		JE18488-6		JE18488-7		JE18488-8		JE18488-1		JE18488-2		JE18488-3		JE18488-4	
SAMPLE DATE:							9/4/2025		9/4/2025		9/4/2025		9/5/2025		9/5/2025		9/5/2025		9/5/2025		9/5/2025		9/5/2025		9/5/2025		9/5/2025		9/5/2025		9/5/2025		9/5/2025		9/5/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
SVOCs (SW846 8270E)																																				
1,1'-Biphenyl	92-52-4	mg/kg	NS	NS	NS	NS	0.075	U	0.072	U	0.068	U	0.068	U	0.068	U	0.071	U	0.069	U	0.0063	J	0.074	U	0.075	U	0.067	U	0.07	U	0.073	U	0.072	U	0.071	U
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.19	U	0.18	U	0.19	U	0.17	U	0.17	U	0.18	U	0.18	U	0.18	U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
1,2-Dichlorobenzene	95-50-1	mg/kg	1.1	100	500	1.1	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
1,3-Dichlorobenzene	541-73-1	mg/kg	2.6	38	280	2.6	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
1,4-Dichlorobenzene	106-46-7	mg/kg	1.8	24	130	1.8	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
1,4-Dioxane	123-91-1	mg/kg	0.1	5.7	36	0.1	0.038	U	0.036	U	0.034	U	0.034	U	0.034	U	0.036	U	0.034	U	0.045		0.037	U	0.037	U	0.034	U	0.035	U	0.037	U	0.036	U	0.035	U
2,2'-Oxybis(1-chloropropane)	108-60-1	mg/kg	NS	NS	NS	NS	0.075	U	0.072	U	0.068	U	0.068	U	0.068	U	0.071	U	0.069	U	0.077	U	0.074	U	0.075	U	0.067	U	0.07	U	0.073	U	0.072	U	0.071	U
2,3,4,6-Tetrachlorophenol	58-90-2	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.19	U	0.18	U	0.19	U	0.17	U	0.17	U	0.18	U	0.18	U	0.18	U
2,4,5-Trichlorophenol	95-95-4	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.19	U	0.18	U	0.19	U	0.17	U	0.17	U	0.18	U	0.18	U	0.18	U
2,4,6-Trichlorophenol	88-06-2	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.19	U	0.18	U	0.19	U	0.17	U	0.17	U	0.18	U	0.18	U	0.18	U
2,4-Dichlorophenol	120-83-2	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.19	U	0.18	U	0.19	U	0.17	U	0.17	U	0.18	U	0.18	U	0.18	U
2,4-Dimethylphenol	105-67-9	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.19	U	0.18	U	0.19	U	0.17	U	0.17	U	0.18	U	0.18	U	0.18	U
2,4-Dinitrophenol	51-28-5	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.19	U	0.18	U	0.19	U	0.17	U	0.17	U	0.18	U	0.18	U	0.18	U
2,4-Dinitrotoluene	121-14-2	mg/kg	NS	NS	NS	NS	0.038	U	0.036	U	0.034	U	0.034	U	0.034	U	0.036	U	0.034	U	0.038	U	0.037	U	0.037	U	0.034	U	0.035	U	0.037	U	0.036	U	0.035	U
2,6-Dinitrotoluene	606-20-2	mg/kg	NS	NS	NS	NS	0.038	U	0.036	U	0.034	U	0.034	U	0.034	U	0.036	U	0.034	U	0.038	U	0.037	U	0.037	U	0.034	U	0.035	U	0.037	U	0.036	U	0.035	U
2-Chloronaphthalene	91-58-7	mg/kg	NS	NS	NS	NS	0.075	U	0.072	U	0.068	U	0.068	U	0.068	U	0.071	U	0.069	U	0.077	U	0.074	U	0.075	U	0.067	U	0.07	U	0.073	U	0.072	U	0.071	U
2-Chlorophenol	95-57-8	mg/kg	NS	NS	NS	NS	0.075	U	0.072	U	0.068	U	0.068	U	0.068	U	0.071	U	0.069	U	0.077	U	0.074	U	0.075	U	0.067	U	0.07	U	0.073	U	0.072	U	0.071	U
2-Methylnaphthalene	91-57-6	mg/kg	NS	NS	NS	NS	0.0284	J	0.362		0.034	U	0.034	U	0.034	U	0.036	U	0.034	U	0.0281	J	0.037	U	0.037	U	0.034	U	0.0262	J	0.037	U	0.036	U	0.0149	J
2-Methylphenol	95-48-7	mg/kg	0.33	100	500	0.33	0.075	U	0.072	U	0.068	U	0.068	U	0.068	U	0.071	U	0.069	U	0.077	U	0.074	U	0.075	U	0.067	U	0.07	U	0.073	U	0.072	U	0.071	U
2-Nitroaniline	88-74-4	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.19	U	0.18	U	0.19	U	0.17	U	0.17	U	0.18	U	0.18	U	0.18	U
2-Nitrophenol	88-75-5	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.19	U	0.18	U	0.19	U	0.17	U	0.17	U	0.18	U	0.18	U	0.18	U
3&4-Methylphenol	108-39-4/106-44-5	mg/kg	NS	NS	NS	NS	0.075	U	0.072	U	0.068	U	0.068	U	0.068	U	0.071	U	0.069	U	0.077	U	0.074	U	0.075	U	0.067	U	0.07	U	0.073	U	0.072	U	0.071	U
3,3'-Dichlorobenzidine	91-94-1	mg/kg	NS	NS	NS	NS	0.075	U	0.072	U	0.068	U	0.068	U	0.068	U	0.071	U	0.069	U	0.077	U	0.074	U	0.075	U	0.067	U	0.07	U	0.073	U	0.072	U	0.071	U
3-Nitroaniline	99-09-2	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.19	U	0.18	U	0.19	U	0.17	U	0.17	U	0.18	U	0.18	U	0.18	U
4,6-Dinitro-o-cresol	534-52-1	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.19	U	0.18	U	0.19	U	0.17	U	0.17	U	0.18	U	0.18	U	0.18	U
4-Bromophenyl phenyl ether	101-55-3	mg/kg	NS	NS	NS	NS	0.075	U	0.072	U	0.068	U	0.068	U	0.068	U	0.071	U	0.069	U	0.077	U	0.074	U	0.075	U	0.067	U	0.07	U	0.073	U	0.072	U	0.071	U
4-Chloro-3-methyl phenol	59-50-7	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.19	U	0.18	U	0.19	U	0.17	U	0.17	U	0.18	U	0.18	U	0.18	U
4-Chloroaniline	106-47-8	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.19	U	0.18	U	0.19	U	0.17	U	0.17	U	0.18	U	0.18	U	0.18	U
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	NS	NS	NS	NS	0.075	U	0.072	U	0.068	U	0.068	U	0.068	U	0.071	U	0.069	U	0.077	U	0.074	U	0.075	U	0.067	U	0.07	U	0.073	U	0.072	U	0.071	U
4-Nitroaniline	100-01-6	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.19	U	0.18	U	0.19	U	0.17	U	0.17	U	0.18	U	0.18	U	0.18	U
4-Nitrophenol	100-02-7	mg/kg	NS	NS	NS	NS	0.38	U	0.36	U	0.34	U	0.34	U	0.34	U	0.36	U	0.34	U	0.38	U	0.37	U	0.37	U	0.34	U	0.35	U	0.37	U	0.36	U	0.35	U
Acenaphthene	83-32-9	mg/kg	20	100	500	98	0.038	U	0.152		0.034	U	0.034	U	0.034	U	0.036	U	0.034	U	0.038	U	0.037	U	0.037	U	0.034	U	0.035	U	0.037	U	0.036	U	0.035	U
Acenaphthylene	208-96-8	mg/kg	100	100	500	365	0.0356	J	0.036	U	0.0275	J	0.034	U	0.034	U	0.036	U	0.034	U	0.038	U	0.037	U	0.037	U	0.034	U	0.035	U	0.037	U	0.036	U	0.035	U
Acetophenone	98-86-2	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.19	U	0.18	U	0.19	U	0.17	U	0.0093	J	0.18	U	0.18	U	0.18	U
Anthracene	120-12-7	mg/kg	100	100	500	1000	0.038	U	0.0403		0.034	U	0.034	U	0.034	U	0.036	U	0.034	U	0.038	U	0.037	U	0.037	U	0.034	U	0.035	U	0.037	U	0.036	U	0.035	U
Atrazine	1912-24-9	mg/kg	NS	NS	NS	NS	0.075	U	0.072	U	0.068	U	0.068	U	0.068	U	0.071	U	0.069	U	0.077	U	0.074	U	0.075	U	0.067	U	0.07	U	0.073	U	0.072	U	0.071	U
Benzaldehyde	100-52-7	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.0212	J	0.18	U	0.19	U	0.17	U	0.17	U	0.18	U	0.18	U	0.18	U
Benzo(a)anthracene	56-55-3	mg/kg	1	1.4	37	1	0.0113	J	0.0132	J	0.034	U	0.034	U	0.034	U	0.0419		0.028	J	0.282		0.037	U	0.037	U	0.034	U	0.032	J	0.0573		0.036	U	0.0379	
Benzo(a)pyrene	50-32-8	mg/kg	1	1	3.7	22	0.038	U	0.036	U	0.034	U	0.034	U	0.034	U	0.0327	J	0.0206	J	0.162		0.037	U	0.037	U	0.034	U	0.0294	J	0.0664		0.036	U	0.0363	
Benzo(b)fluoranthene	205-99-2	mg/kg	1	1.4	37	2.1	0.038	U	0.036	U	0.034	U	0.034	U	0.034	U	0.0595		0.0306	J	0.362		0.037	U	0.0247	J	0.034	U	0.0459		0.0978		0.036	U	0.0456	
Benzo(g,h,i)perylene	191-24-2	mg/kg	0.64	4.9	47	1000	0.038	U	0.036	U	0.034	U	0.034	U	0.034	U	0.0221	J	0.034	U	0.139		0.037	U	0.037	U	0.034	U	0.0281	J	0.0599		0.036	U	0.0377	
Benzo(k)fluoranthene	207-08-9	mg/kg	0.8	4.9	47	2	0.038	U	0.036	U	0.034	U	0.034	U	0.034	U	0.036	U	0.034	U	0.107		0.037	U	0.037	U	0.034	U	0.035	U	0.0376		0.036	U	0.0192	J
Benzoic Acid	65-85-0	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Benzyl Alcohol	100-51-6	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
bis(2-Chloroethoxy)methane	111-91-1	mg/kg	NS	NS	NS	NS	0.075	U	0.072	U	0.068	U	0.068	U	0.068	U	0.071	U	0.069	U	0.077	U	0.074	U	0.075	U	0.067	U	0.07	U	0.073	U	0.072	U	0.071	U
bis(2-Chloroethyl)ether	111-44-4	mg/kg	NS	NS	NS	NS	0.075	U	0.072	U	0.068	U	0.068	U	0.068	U	0.071	U	0.069	U	0.077	U	0.074	U	0.075	U	0.067	U	0.07	U	0.073	U	0.072	U	0.071	U
bis(2-Ethylhexyl)phthalate	117-81-7	mg/kg	NS	NS	NS	NS	0.075	U	0.072	U	0.068	U	0.068	U	0.068	U	0.071	U	0.069	U	0.077	U	0.074	U	0.075	U	0.067	U	0.07	U	0.073	U	0.072	U	0.071	U
Butyl benzyl phthalate	85-68-7	mg/kg	NS	NS	NS	NS	0.075	U	0.072	U	0.068	U	0.068	U	0.068	U	0.071	U	0.069	U	0.077	U	0.074	U	0.075	U	0.067	U	0.07	U	0.073	U	0.072	U	0.071	U
Caprolactam	105-60-2	mg/kg	NS	NS	NS	NS	0.075	U	0.072	U	0.068	U	0.068	U	0.068	U	0.071	U	0.069	U	0.077	U	0.074	U	0.075	U	0.067	U	0.07	U	0.073	U	0.072	U	0.071	U
Carbazole	86-74-8	mg/kg	NS	NS	NS	NS	0.075	U	0.072	U	0.068	U	0.068	U	0.068	U	0.071	U	0.069	U	0.0258	J	0.074	U	0.075	U	0.067	U	0.07	U	0.0098	J	0.072	U	0.071	U
Chrysene	218-01-9	mg/kg	1	4.9	47	1	0.038	U	0.0119	J	0.034	U	0.034	U	0.034	U	0.0439		0.0248	J	0.307		0.037	U	0.0183	J	0.034	U	0.0375		0.0798		0.036	U	0.0294	J
Dibenzo(a,h)anthracene	53-70-3	mg/kg	0.33	0.33	3.7	1000	0.038	U	0.036	U	0.034	U	0.034	U	0.034	U	0.036	U	0.034	U	0.038	U	0.037	U	0.037	U	0.034	U	0.035	U	0.037	U	0.036	U	0.035	U
Dibenzofuran	132-64-9	mg/kg	2.1	18	180	110	0.075	U	0.0382	J	0.068	U	0.068	U	0.068	U	0.071	U	0.069	U	0.077	U	0.074	U	0.075	U	0.067	U	0.07	U	0.073	U	0.072	U	0.071	U
Diethyl phthalate	84-66-2	mg/kg	NS	NS	NS	NS	0.075	U	0.072	U	0.068	U	0.068	U	0.068	U	0.071	U	0.069	U	0.077	U	0.074	U	0.075	U	0.067	U	0.07	U	0.073	U	0.072	U	0.071	U
Dimethyl phthalate	131-11-3	mg/kg	NS	NS	NS	NS	0.075	U	0.072	U	0.068	U	0.068	U	0.068	U	0.071	U	0.069	U	0.077	U	0.074	U	0.075	U	0.067	U	0.07	U	0.073	U	0.072	U	0.071	U
Di-n-butyl phthalate	84-74-2	mg/kg	NS	NS	NS	NS	0.075	U	0.072	U	0.068	U	0.068	U	0.068	U	0.071	U	0.069	U	0.077	U	0.074	U	0.075	U	0.067	U	0.07	U	0.073	U	0.072	U	0.071	U
Di-n-octyl phthalate	117-84-0	mg/kg	NS	NS	NS	NS	0.075	U	0.072	U	0.068	U	0.068	U	0.068	U	0.071	U	0.069	U	0.077	U	0.074	U	0.075	U	0.067	U	0.07	U	0.073	U	0.072	U	0.071	U
Fluoranthene	206-44-0	mg/kg	85	100	500	1000	0.038	U	0.0237	J	0.034	U	0.034	U	0.034	U	0.0344	J	0.0201	J	0.219		0.037	U	0.037	U	0.034	U	0.052		0.113		0.036	U	0.051	
Fluorene	86-73-7	mg/kg	30	100	500	386	0.038	U	0.0706		0.034	U	0.034	U	0.034	U	0.036	U	0.034	U	0.038	U	0.037	U	0.037	U	0.034	U	0.035	U	0.037	U	0.036	U	0.035	U
Hexachlorobenzene	118-74-1	mg/kg	0.33	0.33	1.8	3.2	0.075	U	0.072	U	0.068	U	0.068	U	0.068	U	0.071	U	0.069	U	0.077	U	0.074	U	0.075	U	0.067	U	0.07	U	0.073	U	0.072	U	0.071	U
Hexachlorobutadiene	87-68-3	mg/kg	NS	NS	NS	NS	0.038	U	0.036	U	0.034	U	0.034	U	0.034	U	0.036	U	0.034	U	0.038	U	0.037	U	0.037	U	0.034	U	0.035	U	0.037	U	0.036	U	0.035	U
Hexachlorocyclopentadiene	77-47-4	mg/kg	NS	NS	NS	NS	0.38	U	0.36	U	0.34	U	0.34	U	0.34	U	0.36	U	0.34	U	0.38	U	0.37	U	0.37	U	0.34	U	0.35	U	0.37	U	0.36	U	0.35	U
Hexachloroethane	67-72-1	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.19	U	0.18	U	0.19	U	0.17	U	0.17	U	0.18	U	0.18	U	0.18	U
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0.5	1.4	37	6.6	0.038	U	0.036	U	0.034	U	0.034	U	0.034	U	0.0201	J	0.034	U	0.125		0.037	U	0.037	U	0.034	U	0.0223	J	0.0485		0.036	U	0.0271	J
Isophorone	78-59-1	mg/kg	NS	NS	NS	NS	0.075	U	0.072	U	0.068	U	0.068	U	0.068	U	0.071	U	0.069	U	0.077	U	0.074	U	0.075	U	0.067	U	0.07	U	0.073	U	0.072	U	0.071	U
Naphthalene	91-20-3	mg/kg	12	100	500	12	0.143		0.0691		0.0223	J	0.034	U	0.034	U	0.036	U	0.034	U	0.0231	J	0.037	U	0.037	U	0.034	U	0.0289	J	0.037	U	0.036	U	0.0107	J
Nitrobenzene	98-95-3	mg/kg	0.08	1.8	8.9	0.08	0.075	U	0.072	U	0.068	U	0.068	U	0.068	U	0.071	U	0.069	U	0.077	U	0.074	U	0.075	U	0.067	U	0.07	U	0.073	U	0.072	U	0.071	U
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	NS	NS	NS	NS	0.075	U	0.072	U	0.068	U	0.068	U	0.068	U	0.071	U	0.069	U	0.077	U	0.074	U	0.075	U	0.067	U	0.07	U	0.073	U	0.072	U	0.071	U
N-Nitrosodiphenylamine	86-30-6	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.19	U	0.18	U	0.19	U	0.17	U	0.17	U	0.18	U	0.18	U	0.18	U
Pentachlorophenol	87-86-5	mg/kg	0.8	1.3	6.9	0.8	0.15	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.15	U	0.15	U	0.15	U	0.13	U	0.14	U	0.15	U	0.14	U	0.14	U
Phenanthrene	85-01-8	mg/kg	1.1	4.9	47	1000	0.0142	J	0.388		0.0121	J	0.034	U	0.034	U	0.0171	J	0.034	U	0.0899		0.037	U	0.037	U	0.034	U	0.0512		0.0647		0.036	U	0.022	J
Phenol	108-95-2	mg/kg	0.33	100	500	0.33	0.075	U	0.072	U	0.068	U	0.068	U	0.068	U	0.071	U	0.069	U	0.077	U	0.074	U	0.075	U	0.067	U	0.07	U	0.073	U	0.072	U	0.071	U
Pyrene	129-00-0	mg/kg	64	100	500	1000	0.0182	J	0.0811		0.0145	J	0.034	U	0.034	U	0.041		0.0272	J	0.268		0.037	U	0.037	U	0.034	U	0.056		0.12		0.036	U	0.0593	
Total TIC, Semi-Volatile	-	mg/kg	NS	NS	NS	NS	0		18.52	J	0		0		0		0		0.16	J	2.82	J	0.8	J	1.21	J	0		24.37	J	1.18	J	0.27	J	0	

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs

Concentration Exceeds NYSDEC RRUSCOs

Concentration Exceeds NYSDEC UUSCOs

Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

TABLE 5.2
SUMMARY OF SOIL SAMPLING RESULTS—SVOCs

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-77(2.0-2.5)		SB-77(9.0-9.5)		SB-77(12.5-13)		SB-78(2.5-3.0)		SB-78(6.5-7.0)		SB-79(2.5-3)		SB-79(7.5-8.0)		SB-79(13.5-14.0)		SB-80(4.0-4.5)		SB-80(8.5-9.0)		SB-80(12-12.5)		SB-81(2.5-3.0)		SB-81(6.5-7.0)		SB-82(3.5-4.0)		SB-82(7.5-8.0)	
LAB SAMPLE ID:							JE18629-1		JE18629-2		JE18629-3		JE18375-6		JE18375-7		JE18629-7		JE18629-8		JE18629-9		JE18629-4		JE18629-5		JE18629-6		JE18698-1		JE18698-2		JE18698-3		JE18698-4	
SAMPLE DATE:							9/8/2025		9/8/2025		9/8/2025		9/4/2025		9/4/2025		9/8/2025		9/8/2025		9/8/2025		9/8/2025		9/8/2025		9/8/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
SVOCs (SW846 8270E)																																				
1,1'-Biphenyl	92-52-4	mg/kg	NS	NS	NS	NS	0.077	U	0.107		0.0179	J	0.071	U	0.069	U	0.071	U	0.079	U	0.072	U	0.0809		0.149		0.0077	J	0.068	U	0.071	U	0.069	U	0.07	U
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
1,2-Dichlorobenzene	95-50-1	mg/kg	1.1	100	500	1.1	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
1,3-Dichlorobenzene	541-73-1	mg/kg	2.6	38	280	2.6	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
1,4-Dichlorobenzene	106-46-7	mg/kg	1.8	24	130	1.8	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
1,4-Dioxane	123-91-1	mg/kg	0.1	5.7	36	0.1	0.038	U	0.036	U	0.037	U	0.035	U	0.034	U	0.035	U	0.04	U	0.036	U	0.036	U	0.036	U	0.035	U	0.034	U	0.036	U	0.035	U	0.035	U
2,2'-Oxybis(1-chloropropane)	108-60-1	mg/kg	NS	NS	NS	NS	0.077	U	0.072	U	0.074	U	0.071	U	0.069	U	0.071	U	0.079	U	0.072	U	0.072	U	0.072	U	0.07	U	0.068	U	0.071	U	0.069	U	0.07	U
2,3,4,6-Tetrachlorophenol	58-90-2	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U
2,4,5-Trichlorophenol	95-95-4	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U
2,4,6-Trichlorophenol	88-06-2	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U
2,4-Dichlorophenol	120-83-2	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U
2,4-Dimethylphenol	105-67-9	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U
2,4-Dinitrophenol	51-28-5	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U
2,4-Dinitrotoluene	121-14-2	mg/kg	NS	NS	NS	NS	0.038	U	0.036	U	0.037	U	0.035	U	0.034	U	0.035	U	0.04	U	0.036	U	0.036	U	0.036	U	0.035	U	0.034	U	0.036	U	0.035	U	0.035	U
2,6-Dinitrotoluene	606-20-2	mg/kg	NS	NS	NS	NS	0.038	U	0.036	U	0.037	U	0.035	U	0.034	U	0.035	U	0.04	U	0.036	U	0.036	U	0.036	U	0.035	U	0.034	U	0.036	U	0.035	U	0.035	U
2-Chloronaphthalene	91-58-7	mg/kg	NS	NS	NS	NS	0.077	U	0.072	U	0.074	U	0.071	U	0.069	U	0.071	U	0.079	U	0.072	U	0.072	U	0.072	U	0.07	U	0.068	U	0.071	U	0.069	U	0.07	U
2-Chlorophenol	95-57-8	mg/kg	NS	NS	NS	NS	0.077	U	0.072	U	0.074	U	0.071	U	0.069	U	0.071	U	0.079	U	0.072	U	0.072	U	0.072	U	0.07	U	0.068	U	0.071	U	0.069	U	0.07	U
2-Methylnaphthalene	91-57-6	mg/kg	NS	NS	NS	NS	0.038	U	3.69		0.479		0.023	J	5.34		0.0184	J	0.04	U	0.0193	J	0.639		6.41		0.284		0.034	U	0.036	U	0.035	U	0.0208	J
2-Methylphenol	95-48-7	mg/kg	0.33	100	500	0.33	0.077	U	0.072	U	0.074	U	0.071	U	0.069	U	0.071	U	0.079	U	0.072	U	0.072	U	0.072	U	0.07	U	0.068	U	0.071	U	0.069	U	0.07	U
2-Nitroaniline	88-74-4	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U
2-Nitrophenol	88-75-5	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U
3&4-Methylphenol	108-39-4/106-44-5	mg/kg	NS	NS	NS	NS	0.077	U	0.072	U	0.074	U	0.071	U	0.069	U	0.071	U	0.079	U	0.072	U	0.072	U	0.072	U	0.07	U	0.068	U	0.071	U	0.069	U	0.07	U
3,3'-Dichlorobenzidine	91-94-1	mg/kg	NS	NS	NS	NS	0.077	U	0.072	U	0.074	U	0.071	U	0.069	U	0.071	U	0.079	U	0.072	U	0.072	U	0.072	U	0.07	U	0.068	U	0.071	U	0.069	U	0.07	U
3-Nitroaniline	99-09-2	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U
4,6-Dinitro-o-cresol	534-52-1	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U
4-Bromophenyl phenyl ether	101-55-3	mg/kg	NS	NS	NS	NS	0.077	U	0.072	U	0.074	U	0.071	U	0.069	U	0.071	U	0.079	U	0.072	U	0.072	U	0.072	U	0.07	U	0.068	U	0.071	U	0.069	U	0.07	U
4-Chloro-3-methyl phenol	59-50-7	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U
4-Chloroaniline	106-47-8	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	NS	NS	NS	NS	0.077	U	0.072	U	0.074	U	0.071	U	0.069	U	0.071	U	0.079	U	0.072	U	0.072	U	0.072	U	0.07	U	0.068	U	0.071	U	0.069	U	0.07	U
4-Nitroaniline	100-01-6	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U
4-Nitrophenol	100-02-7	mg/kg	NS	NS	NS	NS	0.38	U	0.36	U	0.37	U	0.35	U	0.34	U	0.35	U	0.4	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U	0.36	U	0.35	U	0.35	U
Acenaphthene	83-32-9	mg/kg	20	100	500	98	0.038	U	0.0453		0.037	U	0.035	U	0.659		0.0204	J	0.04	U	0.036	U	0.568		0.0554		0.035	U	0.034	U	0.036	U	0.035	U	0.035	U
Acenaphthylene	208-96-8	mg/kg	100	100	500	365	0.038	U	0.036	U	0.037	U	0.04		0.034	U	0.0491		0.04	U	0.036	U	0.0678		0.0186	J	0.035	U	0.034	U	0.036	U	0.035	U	0.035	U
Acetophenone	98-86-2	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U
Anthracene	120-12-7	mg/kg	100	100	500	1000	0.038	U	0.0357	J	0.037	U	0.035	U	0.154		0.0799		0.04	U	0.036	U	0.596		0.0362		0.022	J	0.034	U	0.036	U	0.035	U	0.035	U
Atrazine	1912-24-9	mg/kg	NS	NS	NS	NS	0.077	U	0.072	U	0.074	U	0.071	U	0.069	U	0.071	U	0.079	U	0.072	U	0.072	U	0.072	U	0.07	U	0.068	U	0.071	U	0.069	U	0.07	U
Benzaldehyde	100-52-7	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U
Benzo(a)anthracene	56-55-3	mg/kg	1	1.4	37	1	0.038	U	0.0383		0.037	U	0.0161	J	0.0281	J	0.277		0.0223	J	0.0516		1.38		0.0153	J	0.0134	J	0.034	U	0.036	U	0.035	U	0.035	U
Benzo(a)pyrene	50-32-8	mg/kg	1	1	3.7	22	0.038	U	0.0269	J	0.037	U	0.035	U	0.034	U	0.334		0.0291	J	0.0528		1.52		0.036	U	0.035	U	0.034	U	0.036	U	0.035	U	0.035	U
Benzo(b)fluoranthene	205-99-2	mg/kg	1	1.4	37	2.1	0.038	U	0.034	J	0.037	U	0.035	U	0.0153	J	0.378		0.0421		0.0708		2.18		0.036	U	0.035	U	0.034	U	0.036	U	0.035	U	0.035	U
Benzo(g,h,i)perylene	191-24-2	mg/kg	0.64	4.9	47	1000	0.038	U	0.021	J	0.037	U	0.035	U	0.034	U	0.257		0.0303	J	0.0446		1.27		0.036	U	0.035	U	0.034	U	0.036	U	0.035	U	0.035	U
Benzo(k)fluoranthene	207-08-9	mg/kg	0.8	4.9	47	2	0.038	U	0.036	U	0.037	U	0.035	U	0.034	U	0.149		0.04	U	0.0231	J	0.521		0.036	U	0.035	U	0.034	U	0.036	U	0.035	U	0.035	U
Benzoic Acid	65-85-0	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Benzyl Alcohol	100-51-6	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
bis(2-Chloroethoxy)methane	111-91-1	mg/kg	NS	NS	NS	NS	0.077	U	0.072	U	0.074	U	0.071	U	0.069	U	0.071	U	0.079	U	0.072	U	0.072	U	0.072	U	0.07	U	0.068	U	0.071	U	0.069	U	0.07	U
bis(2-Chloroethyl)ether	111-44-4	mg/kg	NS	NS	NS	NS	0.077	U	0.072	U	0.074	U	0.071	U	0.069	U	0.071	U	0.079	U	0.072	U	0.072	U	0.072	U	0.07	U	0.068	U	0.071	U	0.069	U	0.07	U
bis(2-Ethylhexyl)phthalate	117-81-7	mg/kg	NS	NS	NS	NS	0.077	U	0.0285	J	0.0092	J	0.071	U	0.0414	J	0.0278	J	0.079	U	0.072	U	0.0464	J	0.011	J	0.07	U	0.068	U	0.071	U	0.069	U	0.07	U
Butyl benzyl phthalate	85-68-7	mg/kg	NS	NS	NS	NS	0.046	J	0.072	U	0.074	U	0.071	U	0.671		0.071	U	0.079	U	0.072	U	0.072	U	0.072	U	0.07	U	0.068	U	0.071	U	0.069	U	0.07	U
Caprolactam	105-60-2	mg/kg	NS	NS	NS	NS	0.077	U	0.072	U	0.074	U	0.071	U	0.069	U	0.071	U	0.079	U	0.072	U	0.072	U	0.072	U	0.07	U	0.068	U	0.071	U	0.069	U	0.07	U
Carbazole	86-74-8	mg/kg	NS	NS	NS	NS	0.077	U	0.072	U	0.074	U	0.071	U	0.0695		0.032	J	0.079	U	0.072	U	0.462		0.072	U	0.07	U	0.068	U	0.071	U	0.069	U	0.07	U
Chrysene	218-01-9	mg/kg	1	4.9	47	1	0.038	U	0.0276	J	0.037	U	0.0177	J	0.0353		0.284		0.0312	J	0.0331	J	1.5		0.036	U	0.035	U	0.034	U	0.036	U	0.035	U	0.035	U
Dibenzo(a,h)anthracene	53-70-3	mg/kg	0.33	0.33	3.7	1000	0.038	U	0.036	U	0.037	U	0.035	U	0.034	U	0.07		0.04	U	0.036	U	0.387		0.036	U	0.035	U	0.034	U	0.036	U	0.035	U	0.035	U
Dibenzofuran	132-64-9	mg/kg	2.1	18	180	110	0.077	U	0.0207	J	0.074	U	0.071	U	0.161		0.019	J	0.079	U	0.072	U	0.39		0.0215	J	0.07	U	0.068	U	0.071	U	0.069	U	0.07	U
Diethyl phthalate	84-66-2	mg/kg	NS	NS	NS	NS	0.077	U	0.072	U	0.074	U	0.071	U	0.069	U	0.071	U	0.079	U	0.072	U	0.072	U	0.072	U	0.07	U	0.068	U	0.071	U	0.069	U	0.07	U
Dimethyl phthalate	131-11-3	mg/kg	NS	NS	NS	NS	0.077	U	0.072	U	0.074	U	0.071	U	0.069	U	0.071	U	0.079	U	0.072	U	0.072	U	0.072	U	0.07	U	0.068	U	0.071	U	0.069	U	0.07	U
Di-n-butyl phthalate	84-74-2	mg/kg	NS	NS	NS	NS	0.077	U	0.0073	J	0.0063	J	0.071	U	0.069	U	0.0061	J	0.079	U	0.072	U	0.072	U	0.0062	J	0.07	U	0.068	U	0.071	U	0.069	U	0.07	U
Di-n-octyl phthalate	117-84-0	mg/kg	NS	NS	NS	NS	0.077	U	0.072	U	0.074	U	0.071	U	0.069	U	0.071	U	0.079	U	0.072	U	0.072	U	0.072	U	0.07	U	0.068	U	0.071	U	0.069	U	0.07	U
Fluoranthene	206-44-0	mg/kg	85	100	500	1000	0.038	U	0.0948		0.037	U	0.0237	J	0.101		0.461		0.059		0.115		2.77		0.0301	J	0.0322	J	0.034	U	0.036	U	0.035	U	0.035	U
Fluorene	86-73-7	mg/kg	30	100	500	386	0.038	U	0.0602		0.037	U	0.035	U	0.628		0.0287	J	0.04	U	0.036	U	0.753		0.074		0.035	U	0.034	U	0.036	U	0.035	U	0.035	U
Hexachlorobenzene	118-74-1	mg/kg	0.33	0.33	1.8	3.2	0.077	U	0.072	U	0.074	U	0.071	U	0.069	U	0.071	U	0.079	U	0.072	U	0.072	U	0.072	U	0.07	U	0.068	U	0.071	U	0.069	U	0.07	U
Hexachlorobutadiene	87-68-3	mg/kg	NS	NS	NS	NS	0.038	U	0.036	U	0.037	U	0.035	U	0.034	U	0.035	U	0.04	U	0.036	U	0.036	U	0.036	U	0.035	U	0.034	U	0.036	U	0.035	U	0.035	U
Hexachlorocyclopentadiene	77-47-4	mg/kg	NS	NS	NS	NS	0.38	U	0.36	U	0.37	U	0.35	U	0.34	U	0.35	U	0.4	U	0.36	U	0.36	U	0.36	U	0.35	U	0.34	U	0.36	U	0.35	U	0.35	U
Hexachloroethane	67-72-1	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0.5	1.4	37	6.6	0.038	U	0.036	U	0.037	U	0.035	U	0.034	U	0.202		0.0229	J	0.0368		1.08		0.036	U	0.035	U	0.034	U	0.036	U	0.035	U	0.035	U
Isophorone	78-59-1	mg/kg	NS	NS	NS	NS	0.077	U	0.072	U	0.074	U	0.071	U	0.069	U	0.071	U	0.079	U	0.072	U	0.072	U	0.072	U	0.07	U	0.068	U	0.071	U	0.069	U	0.07	U
Naphthalene	91-20-3	mg/kg	12	100	500	12	0.038	U	0.708		0.162		0.051		0.106		0.0348	J	0.04	U	0.0346	J	0.65		4.18		0.0634		0.034	U	0.036	U	0.035	U	0.035	U
Nitrobenzene	98-95-3	mg/kg	0.08	1.8	8.9	0.08	0.077	U	0.072	U	0.074	U	0.071	U	0.069	U	0.071	U	0.079	U	0.072	U	0.072	U	0.072	U	0.07	U	0.068	U	0.071	U	0.069	U	0.07	U
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	NS	NS	NS	NS	0.077	U	0.072	U	0.074	U	0.071	U	0.069	U	0.071	U	0.079	U	0.072	U	0.072	U	0.072	U	0.07	U	0.068	U	0.071	U	0.069	U	0.07	U
N-Nitrosodiphenylamine	86-30-6	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.19	U	0.18	U	0.17	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U
Pentachlorophenol	87-86-5	mg/kg	0.8	1.3	6.9	0.8	0.15	U	0.14	U	0.15	U	0.14	U	0.14	U	0.14	U	0.16	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
Phenanthrene	85-01-8	mg/kg	1.1	4.9	47	1000	0.038	U	0.126		0.0281	J	0.0312	J	1.46		0.237		0.0242	J	0.0252	J	2.69		0.101		0.0449		0.034	U	0.036	U	0.035	U	0.035	U
Phenol	108-95-2	mg/kg	0.33	100	500	0.33	0.077	U	0.072	U	0.074	U	0.071	U	0.069	U	0.071	U	0.079	U	0.072	U	0.072	U	0.072	U	0.07	U	0.068	U	0.071	U	0.069	U	0.07	U
Pyrene	129-00-0	mg/kg	64	100	500	1000	0.038	U	0.0814		0.0165	J	0.0328	J	0.379		0.457		0.0462		0.103		1.98		0.0325	J	0.0284	J	0.034	U	0.036	U	0.035	U	0.035	U
Total TIC, Semi-Volatile	-	mg/kg	NS	NS	NS	NS	0		7.71	J	5.98	J	0		56.9	J	6.19	J	2.4	J	2.06	J	66.2	J	32.38	J	5.57	J	0		0		0		0	

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs

Concentration Exceeds NYSDEC RRUSCOs

Concentration Exceeds NYSDEC UUSCOs

Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

TABLE 5.2
SUMMARY OF SOIL SAMPLING RESULTS—SVOCs

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-83(3-3.5)		SB-83(6-6.5)		SB-83(13.5-14)		SB-84(2.5-3.0)		SB-84(8-8.5)		SB-84(12.5-13.0)		SB-85(4.5-5.0)		SB-85(7-7.5)		SB-85(11-11.5)		SB-85(16.5-17.0)		SB-86(4-4.5)		SB-86(6.5-7.0)		SB-87(3-3.5)		SB-87(6-6.5)		SB-87(14-14.5)	
LAB SAMPLE ID:							JE18698-5		JE18698-6		JE18698-7		JE18698-8		JE18698-9		JE18698-10		JE18698-11		JE18698-12		JE18698-13		JE18698-14		JE18698-15		JE18698-16		JE18698-17		JE18698-18		JE18698-19	
SAMPLE DATE:							9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
SVOCs (SW846 8270E)																																				
1,1'-Biphenyl	92-52-4	mg/kg	NS	NS	NS	NS	0.069	U	0.0367	J	0.071	U	0.069	U	0.068	U	0.069	U	0.071	U	0.07	U	0.07	U	0.069	U	0.073	U	0.071	U	0.068	U	0.069	U	0.072	U
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	NS	NS	NS	NS	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
1,2-Dichlorobenzene	95-50-1	mg/kg	1.1	100	500	1.1	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
1,3-Dichlorobenzene	541-73-1	mg/kg	2.6	38	280	2.6	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
1,4-Dichlorobenzene	106-46-7	mg/kg	1.8	24	130	1.8	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
1,4-Dioxane	123-91-1	mg/kg	0.1	5.7	36	0.1	0.035	U	0.036	U	0.036	U	0.034	U	0.034	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.037	U	0.036	U	0.034	U	0.035	U	0.036	U
2,2'-Oxybis(1-chloropropane)	108-60-1	mg/kg	NS	NS	NS	NS	0.069	U	0.072	U	0.071	U	0.069	U	0.068	U	0.069	U	0.071	U	0.07	U	0.07	U	0.069	U	0.073	U	0.071	U	0.068	U	0.069	U	0.072	U
2,3,4,6-Tetrachlorophenol	58-90-2	mg/kg	NS	NS	NS	NS	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U
2,4,5-Trichlorophenol	95-95-4	mg/kg	NS	NS	NS	NS	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U
2,4,6-Trichlorophenol	88-06-2	mg/kg	NS	NS	NS	NS	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U
2,4-Dichlorophenol	120-83-2	mg/kg	NS	NS	NS	NS	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U
2,4-Dimethylphenol	105-67-9	mg/kg	NS	NS	NS	NS	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U
2,4-Dinitrophenol	51-28-5	mg/kg	NS	NS	NS	NS	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U
2,4-Dinitrotoluene	121-14-2	mg/kg	NS	NS	NS	NS	0.035	U	0.036	U	0.036	U	0.034	U	0.034	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.037	U	0.036	U	0.034	U	0.035	U	0.036	U
2,6-Dinitrotoluene	606-20-2	mg/kg	NS	NS	NS	NS	0.035	U	0.036	U	0.036	U	0.034	U	0.034	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.037	U	0.036	U	0.034	U	0.035	U	0.036	U
2-Chloronaphthalene	91-58-7	mg/kg	NS	NS	NS	NS	0.069	U	0.072	U	0.071	U	0.069	U	0.068	U	0.069	U	0.071	U	0.07	U	0.07	U	0.069	U	0.073	U	0.071	U	0.068	U	0.069	U	0.072	U
2-Chlorophenol	95-57-8	mg/kg	NS	NS	NS	NS	0.069	U	0.072	U	0.071	U	0.069	U	0.068	U	0.069	U	0.071	U	0.07	U	0.07	U	0.069	U	0.073	U	0.071	U	0.068	U	0.069	U	0.072	U
2-Methylnaphthalene	91-57-6	mg/kg	NS	NS	NS	NS	0.035	U	0.0422		0.036	U	0.034	U	0.034	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.037	U	0.036	U	0.034	U	0.035	U	0.036	U
2-Methylphenol	95-48-7	mg/kg	0.33	100	500	0.33	0.069	U	0.072	U	0.071	U	0.069	U	0.068	U	0.069	U	0.071	U	0.07	U	0.07	U	0.069	U	0.073	U	0.071	U	0.068	U	0.069	U	0.072	U
2-Nitroaniline	88-74-4	mg/kg	NS	NS	NS	NS	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U
2-Nitrophenol	88-75-5	mg/kg	NS	NS	NS	NS	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U
3&4-Methylphenol	108-39-4/106-44-5	mg/kg	NS	NS	NS	NS	0.069	U	0.072	U	0.071	U	0.069	U	0.068	U	0.069	U	0.071	U	0.07	U	0.07	U	0.069	U	0.073	U	0.071	U	0.068	U	0.069	U	0.072	U
3,3'-Dichlorobenzidine	91-94-1	mg/kg	NS	NS	NS	NS	0.069	U	0.072	U	0.071	U	0.069	U	0.068	U	0.069	U	0.071	U	0.07	U	0.07	U	0.069	U	0.073	U	0.071	U	0.068	U	0.069	U	0.072	U
3-Nitroaniline	99-09-2	mg/kg	NS	NS	NS	NS	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U
4,6-Dinitro-o-cresol	534-52-1	mg/kg	NS	NS	NS	NS	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U
4-Bromophenyl phenyl ether	101-55-3	mg/kg	NS	NS	NS	NS	0.069	U	0.072	U	0.071	U	0.069	U	0.068	U	0.069	U	0.071	U	0.07	U	0.07	U	0.069	U	0.073	U	0.071	U	0.068	U	0.069	U	0.072	U
4-Chloro-3-methyl phenol	59-50-7	mg/kg	NS	NS	NS	NS	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U
4-Chloroaniline	106-47-8	mg/kg	NS	NS	NS	NS	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	NS	NS	NS	NS	0.069	U	0.072	U	0.071	U	0.069	U	0.068	U	0.069	U	0.071	U	0.07	U	0.07	U	0.069	U	0.073	U	0.071	U	0.068	U	0.069	U	0.072	U
4-Nitroaniline	100-01-6	mg/kg	NS	NS	NS	NS	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U
4-Nitrophenol	100-02-7	mg/kg	NS	NS	NS	NS	0.35	U	0.36	U	0.36	U	0.34	U	0.34	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.37	U	0.36	U	0.34	U	0.35	U	0.36	U
Acenaphthene	83-32-9	mg/kg	20	100	500	98	0.035	U	0.0387		0.036	U	0.034	U	0.034	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.037	U	0.036	U	0.034	U	0.035	U	0.036	U
Acenaphthylene	208-96-8	mg/kg	100	100	500	365	0.035	U	0.036	U	0.036	U	0.034	U	0.034	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.037	U	0.036	U	0.034	U	0.035	U	0.036	U
Acetophenone	98-86-2	mg/kg	NS	NS	NS	NS	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U
Anthracene	120-12-7	mg/kg	100	100	500	1000	0.035	U	0.036	U	0.036	U	0.034	U	0.034	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.037	U	0.036	U	0.034	U	0.035	U	0.036	U
Atrazine	1912-24-9	mg/kg	NS	NS	NS	NS	0.069	U	0.072	U	0.071	U	0.069	U	0.068	U	0.069	U	0.071	U	0.07	U	0.07	U	0.069	U	0.073	U	0.071	U	0.068	U	0.069	U	0.072	U
Benzaldehyde	100-52-7	mg/kg	NS	NS	NS	NS	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U
Benzo(a)anthracene	56-55-3	mg/kg	1	1.4	37	1	0.035	U	0.036	U	0.036	U	0.0226	J	0.034	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.037	U	0.036	U	0.034	U	0.035	U	0.036	U
Benzo(a)pyrene	50-32-8	mg/kg	1	1	3.7	22	0.035	U	0.036	U	0.036	U	0.024	J	0.034	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.037	U	0.036	U	0.034	U	0.035	U	0.036	U
Benzo(b)fluoranthene	205-99-2	mg/kg	1	1.4	37	2.1	0.035	U	0.036	U	0.036	U	0.0299	J	0.034	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.037	U	0.036	U	0.034	U	0.035	U	0.036	U
Benzo(g,h,i)perylene	191-24-2	mg/kg	0.64	4.9	47	1000	0.035	U	0.036	U	0.036	U	0.0191	J	0.034	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.037	U	0.036	U	0.034	U	0.035	U	0.036	U
Benzo(k)fluoranthene	207-08-9	mg/kg	0.8	4.9	47	2	0.035	U	0.036	U	0.036	U	0.034	U	0.034	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.037	U	0.036	U	0.034	U	0.035	U	0.036	U
Benzoic Acid	65-85-0	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
Benzyl Alcohol	100-51-6	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
bis(2-Chloroethoxy)methane	111-91-1	mg/kg	NS	NS	NS	NS	0.069	U	0.072	U	0.071	U	0.069	U	0.068	U	0.069	U	0.071	U	0.07	U	0.07	U	0.069	U	0.073	U	0.071	U	0.068	U	0.069	U	0.072	U
bis(2-Chloroethyl)ether	111-44-4	mg/kg	NS	NS	NS	NS	0.069	U	0.072	U	0.071	U	0.069	U	0.068	U	0.069	U	0.071	U	0.07	U	0.07	U	0.069	U	0.073	U	0.071	U	0.068	U	0.069	U	0.072	U
bis(2-Ethylhexyl)phthalate	117-81-7	mg/kg	NS	NS	NS	NS	0.069	U	0.072	U	0.071	U	0.069	U	0.068	U	0.069	U	0.071	U	0.07	U	0.07	U	0.069	U	0.073	U	0.071	U	0.068	U	0.069	U	0.072	U
Butyl benzyl phthalate	85-68-7	mg/kg	NS	NS	NS	NS	0.069	U	0.072	U	0.071	U	0.069	U	0.068	U	0.069	U	0.071	U	0.07	U	0.07	U	0.069	U	0.073	U	0.071	U	0.068	U	0.069	U	0.072	U
Caprolactam	105-60-2	mg/kg	NS	NS	NS	NS	0.069	U	0.072	U	0.071	U	0.069	U	0.068	U	0.069	U	0.071	U	0.07	U	0.07	U	0.069	U	0.073	U	0.071	U	0.068	U	0.069	U	0.072	U
Carbazole	86-74-8	mg/kg	NS	NS	NS	NS	0.069	U	0.072	U	0.071	U	0.069	U	0.068	U	0.069	U	0.071	U	0.07	U	0.07	U	0.069	U	0.073	U	0.071	U	0.068	U	0.069	U	0.072	U
Chrysene	218-01-9	mg/kg	1	4.9	47	1	0.035	U	0.036	U	0.036	U	0.023	J	0.034	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.037	U	0.036	U	0.034	U	0.035	U	0.036	U
Dibenzo(a,h)anthracene	53-70-3	mg/kg	0.33	0.33	3.7	1000	0.035	U	0.036	U	0.036	U	0.034	U	0.034	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.037	U	0.036	U	0.034	U	0.035	U	0.036	U
Dibenzofuran	132-64-9	mg/kg	2.1	18	180	110	0.069	U	0.072	U	0.071	U	0.069	U	0.068	U	0.069	U	0.071	U	0.07	U	0.07	U	0.069	U	0.073	U	0.071	U	0.068	U	0.069	U	0.072	U
Diethyl phthalate	84-66-2	mg/kg	NS	NS	NS	NS	0.069	U	0.072	U	0.071	U	0.069	U	0.068	U	0.069	U	0.071	U	0.07	U	0.07	U	0.069	U	0.073	U	0.071	U	0.068	U	0.069	U	0.072	U
Dimethyl phthalate	131-11-3	mg/kg	NS	NS	NS	NS	0.069	U	0.072	U	0.071	U	0.069	U	0.068	U	0.069	U	0.071	U	0.07	U	0.07	U	0.069	U	0.073	U	0.071	U	0.068	U	0.069	U	0.072	U
Di-n-butyl phthalate	84-74-2	mg/kg	NS	NS	NS	NS	0.069	U	0.072	U	0.071	U	0.069	U	0.068	U	0.069	U	0.071	U	0.07	U	0.07	U	0.069	U	0.073	U	0.071	U	0.068	U	0.069	U	0.072	U
Di-n-octyl phthalate	117-84-0	mg/kg	NS	NS	NS	NS	0.069	U	0.072	U	0.071	U	0.069	U	0.068	U	0.069	U	0.071	U	0.07	U	0.07	U	0.069	U	0.073	U	0.071	U	0.068	U	0.069	U	0.072	U
Fluoranthene	206-44-0	mg/kg	85	100	500	1000	0.035	U	0.036	U	0.036	U	0.0343		0.034	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.037	U	0.036	U	0.034	U	0.035	U	0.036	U
Fluorene	86-73-7	mg/kg	30	100	500	386	0.035	U	0.036	U	0.036	U	0.034	U	0.034	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.037	U	0.036	U	0.034	U	0.035	U	0.036	U
Hexachlorobenzene	118-74-1	mg/kg	0.33	0.33	1.8	3.2	0.069	U	0.072	U	0.071	U	0.069	U	0.068	U	0.069	U	0.071	U	0.07	U	0.07	U	0.069	U	0.073	U	0.071	U	0.068	U	0.069	U	0.072	U
Hexachlorobutadiene	87-68-3	mg/kg	NS	NS	NS	NS	0.035	U	0.036	U	0.036	U	0.034	U	0.034	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.037	U	0.036	U	0.034	U	0.035	U	0.036	U
Hexachlorocyclopentadiene	77-47-4	mg/kg	NS	NS	NS	NS	0.35	U	0.36	U	0.36	U	0.34	U	0.34	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.37	U	0.36	U	0.34	U	0.35	U	0.36	U
Hexachloroethane	67-72-1	mg/kg	NS	NS	NS	NS	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0.5	1.4	37	6.6	0.035	U	0.036	U	0.036	U	0.019	J	0.034	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.037	U	0.036	U	0.034	U	0.035	U	0.036	U
Isophorone	78-59-1	mg/kg	NS	NS	NS	NS	0.069	U	0.072	U	0.071	U	0.069	U	0.068	U	0.069	U	0.071	U	0.07	U	0.07	U	0.069	U	0.073	U	0.071	U	0.068	U	0.069	U	0.072	U
Naphthalene	91-20-3	mg/kg	12	100	500	12	0.035	U	0.036	U	0.036	U	0.034	U	0.034	U	0.035	U	0.035	U	0.035	U	0.035	U	0.0217	J	0.037	U	0.036	U	0.034	U	0.035	U	0.036	U
Nitrobenzene	98-95-3	mg/kg	0.08	1.8	8.9	0.08	0.069	U	0.072	U	0.071	U	0.069	U	0.068	U	0.069	U	0.071	U	0.07	U	0.07	U	0.069	U	0.073	U	0.071	U	0.068	U	0.069	U	0.072	U
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	NS	NS	NS	NS	0.069	U	0.072	U	0.071	U	0.069	U	0.068	U	0.069	U	0.071	U	0.07	U	0.07	U	0.069	U	0.073	U	0.071	U	0.068	U	0.069	U	0.072	U
N-Nitrosodiphenylamine	86-30-6	mg/kg	NS	NS	NS	NS	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U	0.18	U	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.18	U
Pentachlorophenol	87-86-5	mg/kg	0.8	1.3	6.9	0.8	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.15	U	0.14	U	0.14	U	0.14	U	0.14	U
Phenanthrene	85-01-8	mg/kg	1.1	4.9	47	1000	0.035	U	0.0963		0.036	U	0.0188	J	0.034	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.037	U	0.036	U	0.034	U	0.035	U	0.036	U
Phenol	108-95-2	mg/kg	0.33	100	500	0.33	0.069	U	0.072	U	0.071	U	0.069	U	0.068	U	0.069	U	0.071	U	0.07	U	0.07	U	0.069	U	0.073	U	0.071	U	0.068	U	0.069	U	0.072	U
Pyrene	129-00-0	mg/kg	64	100	500	1000	0.035	U	0.0305	J	0.036	U	0.0329	J	0.034	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.037	U	0.036	U	0.034	U	0.035	U	0.036	U
Total TIC, Semi-Volatile	-	mg/kg	NS	NS	NS	NS	0.15	J	17.33	J	0		0		0		0		0		0		0		0		1.5	J	0		0		0		0	

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs

Concentration Exceeds NYSDEC RRUSCOs

Concentration Exceeds NYSDEC UUSCOs

Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

TABLE 5.2
SUMMARY OF SOIL SAMPLING RESULTS—SVOCs

SAMPLE ID:			NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-88(4.5-5.0)		SB-88(6.5-7.0)		SB-88(13.5-14.0)		SB-89(2.5-3.0)		SB-89(6.5-7.0)		SB-89(12.5-13.0)		SB-90(3.5-4.0)		SB-90(6.5-7.0)		SB-90(13-13.5)		SB-91(3.5-4.0)		SB-91(7.0-7.5)		SB-92(2.0-2.5)		SB-92(5.5-6.0)	
LAB SAMPLE ID:							JE18798-2		JE18798-3		JE18798-4		JE18798-5		JE18798-6		JE18798-7		JE18796-1		JE18796-2		JE18796-3		JE18796-4		JE18796-5		JE18796-6		JE18796-7	
SAMPLE DATE:							9/10/2025		9/10/2025		9/10/2025		9/10/2025		9/10/2025		9/10/2025		9/10/2025		9/10/2025		9/10/2025		9/10/2025		9/10/2025		9/10/2025		9/10/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	CAS	UNITS					Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
SVOCs (SW846 8270E)																																
1,1'-Biphenyl	92-52-4	mg/kg	NS	NS	NS	NS	0.077	U	0.071	U	0.068	U	0.082	U	0.073	U	0.068	U	0.07	U	0.076	U	0.071	U	0.069	U	0.0093	J	0.07	U	0.152	
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.17	U	0.2	U	0.18	U	0.17	U	0.17	U	0.19	U	0.18	U	0.17	U	0.19	U	0.17	U	0.18	U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-	
1,2-Dichlorobenzene	95-50-1	mg/kg	1.1	100	500	1.1	-		-		-		-		-		-		-		-		-		-		-		-		-	
1,3-Dichlorobenzene	541-73-1	mg/kg	2.6	38	280	2.6	-		-		-		-		-		-		-		-		-		-		-		-		-	
1,4-Dichlorobenzene	106-46-7	mg/kg	1.8	24	130	1.8	-		-		-		-		-		-		-		-		-		-		-		-		-	
1,4-Dioxane	123-91-1	mg/kg	0.1	5.7	36	0.1	0.039	U	0.036	U	0.034	U	0.041	U	0.036	U	0.034	U	0.035	U	0.038	U	0.035	U	0.035	U	0.038	U	0.035	U	0.037	U
2,2'-Oxybis(1-chloropropane)	108-60-1	mg/kg	NS	NS	NS	NS	0.077	U	0.071	U	0.068	U	0.082	U	0.073	U	0.068	U	0.07	U	0.076	U	0.071	U	0.069	U	0.076	U	0.07	U	0.073	U
2,3,4,6-Tetrachlorophenol	58-90-2	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.17	U	0.2	U	0.18	U	0.17	U	0.17	U	0.19	U	0.18	U	0.17	U	0.19	U	0.17	U	0.18	U
2,4,5-Trichlorophenol	95-95-4	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.17	U	0.2	U	0.18	U	0.17	U	0.17	U	0.19	U	0.18	U	0.17	U	0.19	U	0.17	U	0.18	U
2,4,6-Trichlorophenol	88-06-2	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.17	U	0.2	U	0.18	U	0.17	U	0.17	U	0.19	U	0.18	U	0.17	U	0.19	U	0.17	U	0.18	U
2,4-Dichlorophenol	120-83-2	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.17	U	0.2	U	0.18	U	0.17	U	0.17	U	0.19	U	0.18	U	0.17	U	0.19	U	0.17	U	0.18	U
2,4-Dimethylphenol	105-67-9	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.17	U	0.2	U	0.18	U	0.17	U	0.17	U	0.19	U	0.18	U	0.17	U	0.19	U	0.17	U	0.18	U
2,4-Dinitrophenol	51-28-5	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.17	U	0.2	U	0.18	U	0.17	U	0.17	U	0.19	U	0.18	U	0.17	U	0.19	U	0.17	U	0.18	U
2,4-Dinitrotoluene	121-14-2	mg/kg	NS	NS	NS	NS	0.039	U	0.036	U	0.034	U	0.041	U	0.036	U	0.034	U	0.035	U	0.038	U	0.035	U	0.035	U	0.038	U	0.035	U	0.037	U
2,6-Dinitrotoluene	606-20-2	mg/kg	NS	NS	NS	NS	0.039	U	0.036	U	0.034	U	0.041	U	0.036	U	0.034	U	0.035	U	0.038	U	0.035	U	0.035	U	0.038	U	0.035	U	0.037	U
2-Chloronaphthalene	91-58-7	mg/kg	NS	NS	NS	NS	0.077	U	0.071	U	0.068	U	0.082	U	0.073	U	0.068	U	0.07	U	0.076	U	0.071	U	0.069	U	0.076	U	0.07	U	0.073	U
2-Chlorophenol	95-57-8	mg/kg	NS	NS	NS	NS	0.077	U	0.071	U	0.068	U	0.082	U	0.073	U	0.068	U	0.07	U	0.076	U	0.071	U	0.069	U	0.076	U	0.07	U	0.073	U
2-Methylnaphthalene	91-57-6	mg/kg	NS	NS	NS	NS	0.039	U	0.036	U	0.034	U	0.041	U	0.036	U	0.034	U	0.035	U	0.0096	J	0.035	U	0.035	U	0.539		0.035	U	7.81	
2-Methylphenol	95-48-7	mg/kg	0.33	100	500	0.33	0.077	U	0.071	U	0.068	U	0.082	U	0.073	U	0.068	U	0.07	U	0.076	U	0.071	U	0.069	U	0.076	U	0.07	U	0.073	U
2-Nitroaniline	88-74-4	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.17	U	0.2	U	0.18	U	0.17	U	0.17	U	0.19	U	0.18	U	0.17	U	0.19	U	0.17	U	0.18	U
2-Nitrophenol	88-75-5	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.17	U	0.2	U	0.18	U	0.17	U	0.17	U	0.19	U	0.18	U	0.17	U	0.19	U	0.17	U	0.18	U
3&4-Methylphenol	108-39-4/106-44-5	mg/kg	NS	NS	NS	NS	0.077	U	0.071	U	0.068	U	0.082	U	0.073	U	0.068	U	0.07	U	0.076	U	0.071	U	0.069	U	0.076	U	0.07	U	0.073	U
3,3'-Dichlorobenzidine	91-94-1	mg/kg	NS	NS	NS	NS	0.077	U	0.071	U	0.068	U	0.082	U	0.073	U	0.068	U	0.07	U	0.076	U	0.071	U	0.069	U	0.076	U	0.07	U	0.073	U
3-Nitroaniline	99-09-2	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.17	U	0.2	U	0.18	U	0.17	U	0.17	U	0.19	U	0.18	U	0.17	U	0.19	U	0.17	U	0.18	U
4,6-Dinitro-o-cresol	534-52-1	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.17	U	0.2	U	0.18	U	0.17	U	0.17	U	0.19	U	0.18	U	0.17	U	0.19	U	0.17	U	0.18	U
4-Bromophenyl phenyl ether	101-55-3	mg/kg	NS	NS	NS	NS	0.077	U	0.071	U	0.068	U	0.082	U	0.073	U	0.068	U	0.07	U	0.076	U	0.071	U	0.069	U	0.076	U	0.07	U	0.073	U
4-Chloro-3-methyl phenol	59-50-7	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.17	U	0.2	U	0.18	U	0.17	U	0.17	U	0.19	U	0.18	U	0.17	U	0.19	U	0.17	U	0.18	U
4-Chloroaniline	106-47-8	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.17	U	0.2	U	0.18	U	0.17	U	0.17	U	0.19	U	0.18	U	0.17	U	0.19	U	0.17	U	0.18	U
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	NS	NS	NS	NS	0.077	U	0.071	U	0.068	U	0.082	U	0.073	U	0.068	U	0.07	U	0.076	U	0.071	U	0.069	U	0.076	U	0.07	U	0.073	U
4-Nitroaniline	100-01-6	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.17	U	0.2	U	0.18	U	0.17	U	0.17	U	0.19	U	0.18	U	0.17	U	0.19	U	0.17	U	0.18	U
4-Nitrophenol	100-02-7	mg/kg	NS	NS	NS	NS	0.39	U	0.36	U	0.34	U	0.41	U	0.36	U	0.34	U	0.35	U	0.38	U	0.35	U	0.35	U	0.38	U	0.35	U	0.37	U
Acenaphthene	83-32-9	mg/kg	20	100	500	98	0.039	U	0.036	U	0.034	U	0.0198	J	0.036	U	0.034	U	0.035	U	0.038	U	0.035	U	0.035	U	0.038	U	0.035	U	0.0419	
Acenaphthylene	208-96-8	mg/kg	100	100	500	365	0.039	U	0.036	U	0.034	U	0.161		0.036	U	0.034	U	0.035	U	0.038	U	0.035	U	0.035	U	0.038	U	0.035	U	0.037	U
Acetophenone	98-86-2	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.17	U	0.2	U	0.18	U	0.17	U	0.17	U	0.19	U	0.18	U	0.17	U	0.19	U	0.17	U	0.18	U
Anthracene	120-12-7	mg/kg	100	100	500	1000	0.039	U	0.036	U	0.034	U	0.1		0.036	U	0.034	U	0.035	U	0.038	U	0.035	U	0.035	U	0.038	U	0.035	U	0.0238	J
Atrazine	1912-24-9	mg/kg	NS	NS	NS	NS	0.077	U	0.071	U	0.068	U	0.082	U	0.073	U	0.068	U	0.07	U	0.076	U	0.071	U	0.069	U	0.076	U	0.07	U	0.073	U
Benzaldehyde	100-52-7	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.17	U	0.2	U	0.18	U	0.17	U	0.17	U	0.19	U	0.18	U	0.17	U	0.19	U	0.17	U	0.18	U
Benzo(a)anthracene	56-55-3	mg/kg	1	1.4	37	1	0.039	U	0.036	U	0.034	U	0.44		0.0243	J	0.034	U	0.035	U	0.038	U	0.035	U	0.035	U	0.038	U	0.035	U	0.016	J
Benzo(a)pyrene	50-32-8	mg/kg	1	1	3.7	22	0.039	U	0.036	U	0.034	U	0.521		0.038		0.034	U	0.035	U	0.038	U	0.035	U	0.035	U	0.038	U	0.035	U	0.037	U
Benzo(b)fluoranthene	205-99-2	mg/kg	1	1.4	37	2.1	0.039	U	0.036	U	0.034	U	0.69		0.0468		0.034	U	0.035	U	0.038	U	0.035	U	0.035	U	0.038	U	0.035	U	0.037	U
Benzo(g,h,i)perylene	191-24-2	mg/kg	0.64	4.9	47	1000	0.039	U	0.036	U	0.034	U	0.394		0.0365		0.034	U	0.035	U	0.038	U	0.035	U	0.035	U	0.038	U	0.035	U	0.037	U
Benzo(k)fluoranthene	207-08-9	mg/kg	0.8	4.9	47	2	0.039	U	0.036	U	0.034	U	0.214		0.036	U	0.034	U	0.035	U	0.038	U	0.035	U	0.035	U	0.038	U	0.035	U	0.037	U
Benzoic Acid	65-85-0	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-	
Benzyl Alcohol	100-51-6	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-	
bis(2-Chloroethoxy)methane	111-91-1	mg/kg	NS	NS	NS	NS	0.077	U	0.071	U	0.068	U	0.082	U	0.073	U	0.068	U	0.07	U	0.076	U	0.071	U	0.069	U	0.076	U	0.07	U	0.073	U
bis(2-Chloroethyl)ether	111-44-4	mg/kg	NS	NS	NS	NS	0.077	U	0.071	U	0.068	U	0.082	U	0.073	U	0.068	U	0.07	U	0.076	U	0.071	U	0.069	U	0.076	U	0.07	U	0.073	U
bis(2-Ethylhexyl)phthalate	117-81-7	mg/kg	NS	NS	NS	NS	0.077	U	0.071	U	0.068	U	0.082	U	0.073	U	0.068	U	0.07	U	0.076	U	0.071	U	0.069	U	0.076	U	0.07	U	0.073	U
Butyl benzyl phthalate	85-68-7	mg/kg	NS	NS	NS	NS	0.077	U	0.071	U	0.068	U	0.082	U	0.073	U	0.068	U	0.07	U	0.076	U	0.071	U	0.069	U	0.076	U	0.07	U	0.073	U
Caprolactam	105-60-2	mg/kg	NS	NS	NS	NS	0.077	U	0.071	U	0.068	U	0.082	U	0.073	U	0.068	U	0.07	U	0.076	U	0.071	U	0.069	U	0.076	U	0.07	U	0.073	U
Carbazole	86-74-8	mg/kg	NS	NS	NS	NS	0.077	U	0.071	U	0.068	U	0.0343	J	0.073	U	0.068	U	0.07	U	0.076	U	0.071	U	0.069	U	0.076	U	0.07	U	0.073	U
Chrysene	218-01-9	mg/kg	1	4.9	47	1	0.039	U	0.036	U	0.034	U	0.479		0.0291	J	0.034	U	0.035	U	0.038	U	0.035	U	0.035	U	0.038	U	0.035	U	0.037	U
Dibenzo(a,h)anthracene	53-70-3	mg/kg	0.33	0.33	3.7	1000	0.039	U	0.036	U	0.034	U	0.1		0.036	U	0.034	U	0.035	U	0.038	U	0.035	U	0.035	U	0.038	U	0.035	U	0.037	U
Dibenzofuran	132-64-9	mg/kg	2.1	18	180	110	0.077	U	0.071	U	0.068	U	0.082	U	0.073	U	0.068	U	0.07	U	0.076	U	0.071	U	0.069	U	0.076	U	0.07	U	0.073	U
Diethyl phthalate	84-66-2	mg/kg	NS	NS	NS	NS	0.077	U	0.071	U	0.068	U	0.082	U	0.073	U	0.068	U	0.07	U	0.076	U	0.071	U	0.069	U	0.076	U	0.07	U	0.073	U
Dimethyl phthalate	131-11-3	mg/kg	NS	NS	NS	NS	0.077	U	0.071	U	0.068	U	0.082	U	0.073	U	0.068	U	0.07	U	0.076	U	0.071	U	0.069	U	0.076	U	0.07	U	0.073	U
Di-n-butyl phthalate	84-74-2	mg/kg	NS	NS	NS	NS	0.077	U	0.071	U	0.068	U	0.082	U	0.073	U	0.068	U	0.07	U	0.076	U	0.071	U	0.069	U	0.076	U	0.07	U	0.073	U
Di-n-octyl phthalate	117-84-0	mg/kg	NS	NS	NS	NS	0.077	U	0.071	U	0.068	U	0.082	U	0.073	U	0.068	U	0.07	U	0.076	U	0.071	U	0.069	U	0.076	U	0.07	U	0.073	U
Fluoranthene	206-44-0	mg/kg	85	100	500	1000	0.039	U	0.036	U	0.034	U	0.74		0.0443		0.034	U	0.035	U	0.038	U	0.035	U	0.035	U	0.038	U	0.035	U	0.0285	J
Fluorene	86-73-7	mg/kg	30	100	500	386	0.039	U	0.036	U	0.034	U	0.0215	J	0.036	U	0.034	U	0.035	U	0.038	U	0.035	U	0.035	U	0.038	U	0.035	U	0.0611	
Hexachlorobenzene	118-74-1	mg/kg	0.33	0.33	1.8	3.2	0.077	U	0.071	U	0.068	U	0.082	U	0.073	U	0.068	U	0.07	U	0.076	U	0.071	U	0.069	U	0.076	U	0.07	U	0.073	U
Hexachlorobutadiene	87-68-3	mg/kg	NS	NS	NS	NS	0.039	U	0.036	U	0.034	U	0.041	U	0.036	U	0.034	U	0.035	U	0.038	U	0.035	U	0.035	U	0.038	U	0.035	U	0.037	U
Hexachlorocyclopentadiene	77-47-4	mg/kg	NS	NS	NS	NS	0.39	U	0.36	U	0.34	U	0.41	U	0.36	U	0.34	U	0.35	U	0.38	U	0.35	U	0.35	U	0.38	U	0.35	U	0.37	U
Hexachloroethane	67-72-1	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.17	U	0.2	U	0.18	U	0.17	U	0.17	U	0.19	U	0.18	U	0.17	U	0.19	U	0.17	U	0.18	U
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0.5	1.4	37	6.6	0.039	U	0.036	U	0.034	U	0.41		0.0355	J	0.034	U	0.035	U	0.038	U	0.035	U	0.035	U	0.038	U	0.035	U	0.037	U
Isophorone	78-59-1	mg/kg	NS	NS	NS	NS	0.077	U	0.071	U	0.068	U	0.082	U	0.073	U	0.068	U	0.07	U	0.076	U	0.071	U	0.069	U	0.076	U	0.07	U	0.073	U
Naphthalene	91-20-3	mg/kg	12	100	500	12	0.039	U	0.036	U	0.034	U	0.017	J	0.036	U	0.034	U	0.035	U	0.038	U	0.035	U	0.035	U	0.435		0.035	U	1.45	
Nitrobenzene	98-95-3	mg/kg	0.08	1.8	8.9	0.08	0.077	U	0.071	U	0.068	U	0.082	U	0.073	U	0.068	U	0.07	U	0.076	U	0.071	U	0.069	U	0.076	U	0.07	U	0.073	U
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	NS	NS	NS	NS	0.077	U	0.071	U	0.068	U	0.082	U	0.073	U	0.068	U	0.07	U	0.076	U	0.071	U	0.069	U	0.076	U	0.07	U	0.073	U
N-Nitrosodiphenylamine	86-30-6	mg/kg	NS	NS	NS	NS	0.19	U	0.18	U	0.17	U	0.2	U	0.18	U	0.17	U	0.17	U	0.19	U	0.18	U	0.17	U	0.19	U	0.17	U	0.18	U
Pentachlorophenol	87-86-5	mg/kg	0.8	1.3	6.9	0.8	0.15	U	0.14	U	0.14	U	0.16	U	0.15	U	0.14	U	0.14	U	0.15	U	0.14	U	0.14	U	0.15	U	0.14	U	0.15	U
Phenanthrene	85-01-8	mg/kg	1.1	4.9	47	1000	0.039	U	0.036	U	0.034	U	0.248		0.0265	J	0.034	U	0.035	U	0.038	U	0.035	U	0.035	U	0.038	U	0.035	U	0.09	
Phenol	108-95-2	mg/kg	0.33	100	500	0.33	0.077	U	0.071	U	0.068	U	0.082	U	0.073	U	0.068	U	0.07	U	0.076	U	0.071	U	0.069	U	0.076	U	0.07	U	0.073	U
Pyrene	129-00-0	mg/kg	64	100	500	1000	0.039	U	0.036	U	0.034	U	0.66		0.0457		0.034	U	0.035	U	0.038	U	0.035	U	0.035	U	0.038	U	0.035	U	0.033	J
Total TIC, Semi-Volatile	-	mg/kg	NS	NS	NS	NS	6.01	J	4.9	J	1.51	J	13.74	J	2.48	J	4.19	J	17.87	J	15.07	J	9.02	J	6.68	J	9.66	J	6.04	J	15.29	J

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs

Concentration Exceeds NYSDEC RRUSCOs

Concentration Exceeds NYSDEC UUSCOs

Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

TABLE 5.3
SUMMARY OF SOIL SAMPLING RESULTS—PESTICIDES

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-1 (2.0-2.5)		SB-1 (5.5-6.0)		SB-1 (10.5-11.0)		SB-2 (3.0-3.5)		SB-2 (7.5-8.0)		SB-2 (12.0-12.5)		SB-3 (3.5-4.0)		SB-3 (7.5-8.0)		SB-3 (10.0-10.5)		SB-4 (2.5-3.0)		SB-4 (9.0-9.5)		SB-4 (11.0-11.5)		SB-5 (3.0-3.5)	
LAB SAMPLE ID:							L2543726-10		L2542974-06		L2543726-11		L2543726-08		L2543726-09		L2542974-07		L2543856-01		L2543856-02		L2542974-08		L2543856-03		L2542974-09		L2543856-04		L2543856-06	
SAMPLE DATE:							7/11/2025		7/9/2025		7/11/2025		7/11/2025		7/11/2025		7/9/2025		7/14/2025		7/14/2025		7/9/2025		7/14/2025		7/9/2025		7/14/2025		7/14/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PESTICIDES (SW846 8081B)																																
4,4'-DDD	72-54-8	mg/kg	0.0033	5	33	14	0.00171	U	0.00174	U	0.00173	U	0.00198	U	0.00173	U	0.00176	U	0.00122	J	0.0017	U	0.00178	U	0.0017	U	0.00167	U	0.00196	U	0.0017	U
4,4'-DDE	72-55-9	mg/kg	0.0033	3.4	22	9.3	0.00171	U	0.00174	U	0.00173	U	0.00198	U	0.00173	U	0.00176	U	0.00187	U	0.0017	U	0.00178	U	0.0017	U	0.00167	U	0.00196	U	0.0017	U
4,4'-DDT	50-29-3	mg/kg	0.0033	3.8	27	135	0.00171	U	0.00174	U	0.00173	U	0.00198	U	0.00173	U	0.00176	U	0.00187	U	0.0017	U	0.00178	U	0.0017	U	0.00167	U	0.00196	U	0.0017	U
Aldrin	309-00-2	mg/kg	0.0048	0.044	0.33	0.19	0.00171	U	0.00174	U	0.00173	U	0.00198	U	0.00173	U	0.00176	U	0.00187	U	0.0017	U	0.00178	U	0.0017	U	0.00167	U	0.00196	U	0.0017	U
alpha-BHC	319-84-6	mg/kg	0.02	0.18	1.2	0.02	0.000713	U	0.000727	U	0.000721	U	0.000827	U	0.000721	U	0.000734	U	0.000779	U	0.000707	U	0.00074	U	0.00071	U	0.000695	U	0.000818	U	0.000707	U
alpha-Chlordane	5103-71-9	mg/kg	0.014	0.65	8.2	4.5	0.00214	U	0.00218	U	0.00216	U	0.00248	U	0.00216	U	0.0022	U	0.00234	U	0.00212	U	0.000696	JIP	0.00213	U	0.00208	U	0.00245	U	0.00504	IP
Beta-BHC	319-85-7	mg/kg	0.021	0.18	1.8	0.09	0.00171	U	0.00174	U	0.000828	J	0.00198	U	0.00173	U	0.00176	U	0.00187	U	0.0017	U	0.00178	U	0.0017	U	0.00167	U	0.00196	U	0.0017	U
Chlordane	57-74-9	mg/kg	NS	NS	NS	NS	0.0143	U	0.0145	U	0.0144	U	0.0165	U	0.0144	U	0.0147	U	0.0156	U	0.0141	U	0.0148	U	0.0142	U	0.0139	U	0.0164	U	0.0141	U
delta-BHC	319-86-8	mg/kg	0.04	100	500	0.1	0.00171	U	0.00174	U	0.00173	U	0.00198	U	0.00173	U	0.00176	U	0.00187	U	0.0017	U	0.00178	U	0.0017	U	0.00167	U	0.00196	U	0.0017	U
Dieldrin	60-57-1	mg/kg	0.005	0.075	0.48	0.1	0.00107	U	0.00109	U	0.00108	U	0.00124	U	0.00108	U	0.0011	U	0.00117	U	0.00106	U	0.00111	U	0.00106	U	0.00104	U	0.00123	U	0.00224	
Endosulfan sulfate	1031-07-8	mg/kg	4.3	35	360	47	0.000713	U	0.000727	U	0.000721	U	0.000827	U	0.000721	U	0.000734	U	0.000779	U	0.000707	U	0.00074	U	0.00071	U	0.000695	U	0.000818	U	0.000707	U
Endosulfan-I	959-98-8	mg/kg	4.3	35	360	65	0.00171	U	0.00174	U	0.00173	U	0.00198	U	0.00173	U	0.00176	U	0.00187	U	0.0017	U	0.00178	U	0.0017	U	0.00167	U	0.00196	U	0.0017	U
Endosulfan-II	33213-65-9	mg/kg	4.3	35	360	44	0.00171	U	0.00174	U	0.00173	U	0.00198	U	0.00173	U	0.00176	U	0.00187	U	0.0017	U	0.00178	U	0.0017	U	0.00167	U	0.00196	U	0.0017	U
Endrin	72-20-8	mg/kg	0.014	5.3	55	0.06	0.000713	U	0.000727	U	0.000721	U	0.000827	U	0.000721	U	0.000734	U	0.000779	U	0.000707	U	0.00074	U	0.00071	U	0.000695	U	0.000818	U	0.000707	U
Endrin aldehyde	7421-93-4	mg/kg	NS	NS	NS	NS	0.00214	U	0.00218	U	0.00216	U	0.00248	U	0.00216	U	0.0022	U	0.00234	U	0.00212	U	0.00222	U	0.00213	U	0.00208	U	0.00245	U	0.00212	U
Endrin ketone	53494-70-5	mg/kg	NS	NS	NS	NS	0.00171	U	0.00174	U	0.00173	U	0.00198	U	0.00173	U	0.00176	U	0.00187	U	0.0017	U	0.00178	U	0.0017	U	0.00167	U	0.00196	U	0.0017	U
gamma-BHC (Lindane)	58-89-9	mg/kg	0.025	0.21	0.21	0.05	0.000713	U	0.000727	U	0.000721	U	0.000827	U	0.000721	U	0.000734	U	0.000779	U	0.000707	U	0.00074	U	0.00071	U	0.000695	U	0.000818	U	0.000707	U
gamma-Chlordane	5103-74-2	mg/kg	NS	NS	NS	NS	0.00214	U	0.00218	U	0.00216	U	0.00248	U	0.00216	U	0.0022	U	0.000627	JIP	0.00212	U	0.00112	J	0.00213	U	0.00208	U	0.00245	U	0.00589	IP
Heptachlor	76-44-8	mg/kg	0.013	0.53	5.1	0.38	0.000856	U	0.000872	U	0.000865	U	0.000993	U	0.000865	U	0.00088	U	0.000935	U	0.000848	U	0.000888	U	0.000852	U	0.000834	U	0.000981	U	0.000849	U
Heptachlor epoxide	1024-57-3	mg/kg	NS	NS	NS	NS	0.00321	U	0.00327	U	0.00324	U	0.00372	U	0.00324	U	0.0033	U	0.00351	U	0.00318	U	0.00333	U	0.0032	U	0.00313	U	0.00368	U	0.00318	U
Methoxychlor	72-43-5	mg/kg	NS	NS	NS	NS	0.00321	U	0.00327	U	0.00324	U	0.00372	U	0.00324	U	0.0033	U	0.00351	U	0.00318	U	0.00333	U	0.0032	U	0.00313	U	0.00368	U	0.00318	U
Toxaphene	8001-35-2	mg/kg	NS	NS	NS	NS	0.0321	U	0.0327	U	0.0324	U	0.0372	U	0.0324	U	0.033	U	0.0351	U	0.0318	U	0.0333	U	0.032	U	0.0313	U	0.0368	U	0.0318	U

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-5 (8.5-9.0)		SB-5 (12.5-13.0)		SB-6 (1.0-1.5)		SB-6 (8.0-8.5)		SB-6 (10.5-11.0)		SB-7 (2.5-3.0)		SB-7 (6.0-6.5)		SB-8 (3.5-4.0)		SB-8 (8.0-8.5)		SB-8 (11.0-11.5)		SB-8 (17.5-18.0)		SB-9 (1.5-2.0)		SB-9 (6.0-6.5)	
LAB SAMPLE ID:							L2543856-07		L2542974-10		L2543726-12		L2543726-13		L2542974-11		L2542974-12		L2543856-05		L2544282-04		L2542560-02		L2544282-05		L2544282-06		L2544282-01		L2544282-02	
SAMPLE DATE:							7/14/2025		7/9/2025		7/11/2025		7/11/2025		7/9/2025		7/9/2025		7/14/2025		7/15/2025		7/8/2025		7/15/2025		7/15/2025		7/15/2025		7/15/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PESTICIDES (SW846 8081B)																																
4,4'-DDD	72-54-8	mg/kg	0.0033	5	33	14	0.00162	U	0.00173	U	0.0016	U	0.000717	JIP	0.00166	U	0.00163	U	0.00172	U	0.00191	U	0.00167	U	0.00166	U	0.00168	U	0.00174	U	0.00168	U
4,4'-DDE	72-55-9	mg/kg	0.0033	3.4	22	9.3	0.00162	U	0.00173	U	0.0016	U	0.00158	U	0.00166	U	0.000487	J	0.00172	U	0.00191	U	0.00167	U	0.00166	U	0.00168	U	0.00174	U	0.00168	U
4,4'-DDT	50-29-3	mg/kg	0.0033	3.8	27	135	0.00162	U	0.00148	J	0.0016	U	0.00158	U	0.00166	U	0.00147	JIP	0.00172	U	0.00191	U	0.00167	U	0.00166	U	0.00168	U	0.00174	U	0.00168	U
Aldrin	309-00-2	mg/kg	0.0048	0.044	0.33	0.19	0.00162	U	0.00173	U	0.0016	U	0.00158	U	0.00166	U	0.00163	U	0.00172	U	0.00191	U	0.00167	U	0.00166	U	0.00168	U	0.00174	U	0.00168	U
alpha-BHC	319-84-6	mg/kg	0.02	0.18	1.2	0.02	0.000673	U	0.00072	U	0.000669	U	0.000661	U	0.000692	U	0.000678	U	0.000716	U	0.000795	U	0.000696	U	0.000692	U	0.000702	U	0.000724	U	0.000702	U
alpha-Chlordane	5103-71-9	mg/kg	0.014	0.65	8.2	4.5	0.00202	U	0.00378	IP	0.000606	JIP	0.00198	U	0.000799	JIP	0.00757	IP	0.00215	U	0.00238	U	0.00209	U	0.00208	U	0.0021	U	0.00217	U	0.0021	U
Beta-BHC	319-85-7	mg/kg	0.021	0.18	1.8	0.09	0.00162	U	0.00173	U	0.0016	U	0.00158	U	0.00166	U	0.00163	U	0.00172	U	0.00191	U	0.00167	U	0.00166	U	0.00168	U	0.00174	U	0.00168	U
Chlordane	57-74-9	mg/kg	NS	NS	NS	NS	0.0135	U	0.0231		0.0134	U	0.0132	U	0.0138	U	0.0422		0.0143	U	0.0159	U	0.0139	U	0.0138	U	0.014	U	0.0145	U	0.014	U
delta-BHC	319-86-8	mg/kg	0.04	100	500	0.1	0.00162	U	0.00173	U	0.0016	U	0.00158	U	0.00166	U	0.00163	U	0.00172	U	0.00191	U	0.00167	U	0.00166	U	0.00168	U	0.00174	U	0.00168	U
Dieldrin	60-57-1	mg/kg	0.005	0.075	0.48	0.1	0.00101	U	0.00216		0.00387		0.000991	U	0.00248		0.00325		0.00107	U	0.00119	U	0.00104	U	0.00104	U	0.00105	U	0.00108	U	0.00105	U
Endosulfan sulfate	1031-07-8	mg/kg	4.3	35	360	47	0.000673	U	0.00072	U	0.000669	U	0.000661	U	0.000692	U	0.000678	U	0.000716	U	0.000795	U	0.000696	U	0.000692	U	0.000702	U	0.000724	U	0.000702	U
Endosulfan-I	959-98-8	mg/kg	4.3	35	360	65	0.00162	U	0.00173	U	0.0016	U	0.00158	U	0.00166	U	0.00163	U	0.00172	U	0.00191	U	0.00167	U	0.00166	U	0.00168	U	0.00174	U	0.00168	U
Endosulfan-II	33213-65-9	mg/kg	4.3	35	360	44	0.00162	U	0.00173	U	0.0016	U	0.00158	U	0.00166	U	0.00163	U	0.00172	U	0.00191	U	0.00167	U	0.00166	U	0.00168	U	0.00174	U	0.00168	U
Endrin	72-20-8	mg/kg	0.014	5.3	55	0.06	0.000673	U	0.00072	U	0.000669	U	0.000661	U	0.000692	U	0.000678	U	0.000716	U	0.000795	U	0.000696	U	0.000692	U	0.000702	U	0.000724	U	0.000702	U
Endrin aldehyde	7421-93-4	mg/kg	NS	NS	NS	NS	0.00202	U	0.00216	U	0.00201	U	0.00198	U	0.00208	U	0.00203	U	0.00215	U	0.00238	U	0.00209	U	0.00208	U	0.0021	U	0.00217	U	0.0021	U
Endrin ketone	53494-70-5	mg/kg	NS	NS	NS	NS	0.00162	U	0.00173	U	0.0016	U	0.00158	U	0.00166	U	0.00163	U	0.00172	U	0.00191	U	0.00167	U	0.00166	U	0.00168	U	0.00174	U	0.00168	U
gamma-BHC (Lindane)	58-89-9	mg/kg	0.025	0.21	0.21	0.05	0.000673	U	0.00072	U	0.000669	U	0.000661	U	0.000692	U	0.000678	U	0.000716	U	0.000795	U	0.000696	U	0.000692	U	0.000702	U	0.000724	U	0.000702	U
gamma-Chlordane	5103-74-2	mg/kg	NS	NS	NS	NS	0.00202	U	0.00464		0.000594	JIP	0.00198	U	0.00163	JIP	0.00902		0.00215	U	0.00238	U	0.00209	U	0.00208	U	0.0021	U	0.00217	U	0.0021	U
Heptachlor	76-44-8	mg/kg	0.013	0.53	5.1	0.38	0.000808	U	0.000864	U	0.000803	U	0.000793	U	0.000831	U	0.000813	U	0.00086	U	0.000954	U	0.000835	U	0.00083	U	0.000842	U	0.000869	U	0.000842	U
Heptachlor epoxide	1024-57-3	mg/kg	NS	NS	NS	NS	0.00303	U	0.00324	U	0.00301	U	0.00297	U	0.00312	U	0.00305	U	0.00322	U	0.00358	U	0.00313	U	0.00311	U	0.00316	U	0.00326	U	0.00316	U
Methoxychlor	72-43-5	mg/kg	NS	NS	NS	NS	0.00303	U	0.00324	U	0.00301	U	0.00297	U	0.00312	U	0.00305	U	0.00322	U	0.00358	U	0.00313	U	0.00311	U	0.00316	U	0.00326	U	0.00316	U
Toxaphene	8001-35-2	mg/kg	NS	NS	NS	NS	0.0303	U	0.0324	U	0.0301	U	0.0297	U	0.0312	U	0.0305	U	0.0322	U	0.0358	U	0.0313	U	0.0311	U	0.0316	U	0.0326	U	0.0316	U

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs
Concentration Exceeds NYSDEC RRUSCOs
Concentration Exceeds NYSDEC UUSCOs
Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

TABLE 5.3
SUMMARY OF SOIL SAMPLING RESULTS—PESTICIDES

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-9 (13.0-13.5)		SB-9 (16.0-16.5)		SB-10 (4.0-4.5)		SB-10 (7.0-7.5)		SB-10 (13.5-14.0)		SB-10 (15.5-16.0)		SB-11 (16.0-16.5)		SB-11 (16.0-16.5)		SB-12 (1.5-2.0)		SB-12 (5.5-6.0)		SB-12 (13.0-13.5)		SB-12 (18.0-18.5)		SB-13 (5.0-5.5)	
LAB SAMPLE ID:							L2542560-03		L2544282-03		L2542560-04		L2544282-07		L2544282-08		L2544282-09		L2542560-05		L2542560-05 R1		L2542560-06		L2544282-13		L2544282-14		L2544282-15		L2542974-01	
SAMPLE DATE:							7/8/2025		7/15/2025		7/8/2025		7/15/2025		7/15/2025		7/15/2025		7/8/2025		7/8/2025		7/8/2025		7/15/2025		7/15/2025		7/15/2025		7/9/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PESTICIDES (SW846 8081B)																																
4,4'-DDD	72-54-8	mg/kg	0.0033	5	33	14	0.00185	U	0.00169	U	0.00187	U	0.0019	U	0.00171	U	0.00177	U	0.00191	U	0.00192	U	0.00175	U	0.00181	U	0.00167	U	0.0018	U	0.00172	U
4,4'-DDE	72-55-9	mg/kg	0.0033	3.4	22	9.3	0.00185	U	0.00169	U	0.000978	J	0.0019	U	0.00171	U	0.00177	U	0.00191	U	0.00192	U	0.00175	U	0.00181	U	0.00167	U	0.0018	U	0.00172	U
4,4'-DDT	50-29-3	mg/kg	0.0033	3.8	27	135	0.00185	U	0.00169	U	0.00187	U	0.0019	U	0.00171	U	0.00177	U	0.00191	U	0.00192	U	0.00175	U	0.00181	U	0.00167	U	0.0018	U	0.00172	U
Aldrin	309-00-2	mg/kg	0.0048	0.044	0.33	0.19	0.00185	U	0.00169	U	0.00187	U	0.0019	U	0.00171	U	0.00177	U	0.00191	U	0.00192	U	0.00175	U	0.00181	U	0.00167	U	0.0018	U	0.00172	U
alpha-BHC	319-84-6	mg/kg	0.02	0.18	1.2	0.02	0.000771	U	0.000705	U	0.00078	U	0.000792	U	0.000713	U	0.000738	U	0.000796	U	0.000798	U	0.00073	U	0.000755	U	0.000695	U	0.000748	U	0.000719	U
alpha-Chlordane	5103-71-9	mg/kg	0.014	0.65	8.2	4.5	0.00231	U	0.00212	U	0.00234	U	0.00238	U	0.00214	U	0.00221	U	0.00239	U	0.00239	U	0.00219	U	0.00227	U	0.00208	U	0.00224	U	0.00216	U
Beta-BHC	319-85-7	mg/kg	0.021	0.18	1.8	0.09	0.00185	U	0.00169	U	0.00187	U	0.0019	U	0.00171	U	0.00177	U	0.00191	U	0.00192	U	0.00175	U	0.00181	U	0.00167	U	0.0018	U	0.00172	U
Chlordane	57-74-9	mg/kg	NS	NS	NS	NS	0.0154	U	0.0141	U	0.0156	U	0.0158	U	0.0143	U	0.0148	U	0.0159	U	0.016	U	0.0146	U	0.0151	U	0.0139	U	0.015	U	0.0144	U
delta-BHC	319-86-8	mg/kg	0.04	100	500	0.1	0.00185	U	0.00169	U	0.00187	U	0.0019	U	0.00171	U	0.00177	U	0.00191	U	0.00192	U	0.00175	U	0.00181	U	0.00167	U	0.0018	U	0.00172	U
Dieldrin	60-57-1	mg/kg	0.005	0.075	0.48	0.1	0.00116	U	0.00106	U	0.00117	U	0.00119	U	0.00107	U	0.00111	U	0.00119	U	0.0012	U	0.00109	U	0.00113	U	0.00104	U	0.00112	U	0.00108	U
Endosulfan sulfate	1031-07-8	mg/kg	4.3	35	360	47	0.000771	U	0.000705	U	0.00078	U	0.000792	U	0.000713	U	0.000738	U	0.000796	U	0.000798	U	0.00073	U	0.000755	U	0.000695	U	0.000748	U	0.000719	U
Endosulfan-I	959-98-8	mg/kg	4.3	35	360	65	0.00185	U	0.00169	U	0.00187	U	0.0019	U	0.00171	U	0.00177	U	0.00191	U	0.00192	U	0.00175	U	0.00181	U	0.00167	U	0.0018	U	0.00172	U
Endosulfan-II	33213-65-9	mg/kg	4.3	35	360	44	0.00185	U	0.00169	U	0.00187	U	0.0019	U	0.00171	U	0.00177	U	0.00191	U	0.00192	U	0.00175	U	0.00181	U	0.00167	U	0.0018	U	0.00172	U
Endrin	72-20-8	mg/kg	0.014	5.3	55	0.06	0.000771	U	0.000705	U	0.00078	U	0.000792	U	0.000713	U	0.000738	U	0.000796	U	0.000798	U	0.00073	U	0.000755	U	0.000695	U	0.000748	U	0.000719	U
Endrin aldehyde	7421-93-4	mg/kg	NS	NS	NS	NS	0.00231	U	0.00212	U	0.00234	U	0.00238	U	0.00214	U	0.00221	U	0.00239	U	0.00239	U	0.00219	U	0.00227	U	0.00208	U	0.00224	U	0.00216	U
Endrin ketone	53494-70-5	mg/kg	NS	NS	NS	NS	0.00185	U	0.00169	U	0.00187	U	0.0019	U	0.00171	U	0.00177	U	0.00191	U	0.00192	U	0.00175	U	0.00181	U	0.00167	U	0.0018	U	0.00172	U
gamma-BHC (Lindane)	58-89-9	mg/kg	0.025	0.21	0.21	0.05	0.000771	U	0.000705	U	0.00078	U	0.000792	U	0.000713	U	0.000738	U	0.000796	U	0.000798	U	0.00073	U	0.000755	U	0.000695	U	0.000748	U	0.000719	U
gamma-Chlordane	5103-74-2	mg/kg	NS	NS	NS	NS	0.00231	U	0.00212	U	0.00073	J	0.00238	U	0.00214	U	0.00221	U	0.00239	U	0.00239	U	0.00219	U	0.00227	U	0.00208	U	0.00224	U	0.00216	U
Heptachlor	76-44-8	mg/kg	0.013	0.53	5.1	0.38	0.000925	U	0.000846	U	0.000936	U	0.00095	U	0.000856	U	0.000885	U	0.000955	U	0.000958	U	0.000876	U	0.000906	U	0.000834	U	0.000898	U	0.000863	U
Heptachlor epoxide	1024-57-3	mg/kg	NS	NS	NS	NS	0.00347	U	0.00317	U	0.00351	U	0.00356	U	0.00321	U	0.00332	U	0.00358	U	0.00359	U	0.00328	U	0.0034	U	0.00313	U	0.00337	U	0.00324	U
Methoxychlor	72-43-5	mg/kg	NS	NS	NS	NS	0.00347	U	0.00317	U	0.00351	U	0.00356	U	0.00321	U	0.00332	U	0.00358	U	0.00359	U	0.00328	U	0.0034	U	0.00313	U	0.00337	U	0.00324	U
Toxaphene	8001-35-2	mg/kg	NS	NS	NS	NS	0.0347	U	0.0317	U	0.0351	U	0.0356	U	0.0321	U	0.0332	U	0.0358	U	0.0359	U	0.0328	U	0.034	U	0.0313	U	0.0337	U	0.0324	U

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-14 (3.5-4.0)		SB-15 (2.5-3.0)		SB-15 (6.0-6.5)		SB-15 (12.0-12.5)		SB-15 (16.5-17.0)		SB-16 (2.0-2.5)		SB-16 (5.0-5.5)		SB-17 (3.0-3.5)		SB-18 (2.0-2.5)		SB-18 (6.5-7.0)		SB-19 (2.5-3.0)		SB-20 (3.0-3.5)		SB-21 (4.0-4.5)	
LAB SAMPLE ID:							L2542974-02		L2544282-10		L2542974-03		L2544282-11		L2544282-12		L2542974-04		L2543726-04		L2542974-05		L2543250-01		L2543726-05		L2543250-02		L2543250-03		L2543250-04	
SAMPLE DATE:							7/9/2025		7/15/2025		7/9/2025		7/15/2025		7/15/2025		7/9/2025		7/11/2025		7/9/2025		7/10/2025		7/11/2025		7/10/2025		7/10/2025		7/10/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PESTICIDES (SW846 8081B)																																
4,4'-DDD	72-54-8	mg/kg	0.0033	5	33	14	0.00186	U	0.00188	U	0.00176	U	0.00186	U	0.00167	U	0.00173	U	0.00185	U	0.00167	U	0.0019	U	0.00169	U	0.00175	U	0.00174	U	0.00165	U
4,4'-DDE	72-55-9	mg/kg	0.0033	3.4	22	9.3	0.00186	U	0.00207		0.00176	U	0.00186	U	0.00167	U	0.00173	U	0.00185	U	0.00167	U	0.0019	U	0.00169	U	0.00175	U	0.00174	U	0.00163	J
4,4'-DDT	50-29-3	mg/kg	0.0033	3.8	27	135	0.00186	U	0.0115		0.00176	U	0.00186	U	0.00167	U	0.00173	U	0.00185	U	0.00167	U	0.0019	U	0.00169	U	0.00175	U	0.00174	U	0.00165	U
Aldrin	309-00-2	mg/kg	0.0048	0.044	0.33	0.19	0.00186	U	0.00188	U	0.00176	U	0.00186	U	0.00167	U	0.00173	U	0.00185	U	0.00167	U	0.0019	U	0.00169	U	0.00175	U	0.00174	U	0.00165	U
alpha-BHC	319-84-6	mg/kg	0.02	0.18	1.2	0.02	0.000773	U	0.000784	U	0.000731	U	0.000775	U	0.000694	U	0.000722	U	0.000772	U	0.000696	U	0.000792	U	0.000704	U	0.00073	U	0.000725	U	0.000687	U
alpha-Chlordane	5103-71-9	mg/kg	0.014	0.65	8.2	4.5	0.00232	U	0.00235	U	0.00219	U	0.00232	U	0.00208	U	0.00217	U	0.00232	U	0.00209	U	0.00238	U	0.00211	U	0.00219	U	0.00218	U	0.00206	U
Beta-BHC	319-85-7	mg/kg	0.021	0.18	1.8	0.09	0.00186	U	0.00188	U	0.00176	U	0.00186	U	0.00167	U	0.00173	U	0.00185	U	0.00167	U	0.0019	U	0.00169	U	0.00175	U	0.00174	U	0.00165	U
Chlordane	57-74-9	mg/kg	NS	NS	NS	NS	0.0154	U	0.0157	U	0.0146	U	0.0155	U	0.0139	U	0.0144	U	0.0154	U	0.0139	U	0.0158	U	0.0141	U	0.0146	U	0.0145	U	0.0137	U
delta-BHC	319-86-8	mg/kg	0.04	100	500	0.1	0.00186	U	0.00188	U	0.00176	U	0.00186	U	0.00167	U	0.00173	U	0.00185	U	0.00167	U	0.0019	U	0.00169	U	0.00175	U	0.00174	U	0.00165	U
Dieldrin	60-57-1	mg/kg	0.005	0.075	0.48	0.1	0.00116	U	0.00118	U	0.0011	U	0.00116	U	0.00104	U	0.00108	U	0.00116	U	0.00104	U	0.00119	U	0.00106	U	0.00109	U	0.00109	U	0.00103	U
Endosulfan sulfate	1031-07-8	mg/kg	4.3	35	360	47	0.000773	U	0.000784	U	0.000731	U	0.000775	U	0.000694	U	0.000722	U	0.000772	U	0.000696	U	0.000792	U	0.000704	U	0.00073	U	0.000725	U	0.000687	U
Endosulfan-I	959-98-8	mg/kg	4.3	35	360	65	0.00186	U	0.00188	U	0.00176	U	0.00186	U	0.00167	U	0.00173	U	0.00185	U	0.00167	U	0.0019	U	0.00169	U	0.00175	U	0.00174	U	0.00165	U
Endosulfan-II	33213-65-9	mg/kg	4.3	35	360	44	0.00186	U	0.00188	U	0.00176	U	0.00186	U	0.00167	U	0.00173	U	0.00185	U	0.00167	U	0.0019	U	0.00169	U	0.00175	U	0.00174	U	0.00165	U
Endrin	72-20-8	mg/kg	0.014	5.3	55	0.06	0.000773	U	0.000784	U	0.000731	U	0.000775	U	0.000694	U	0.000722	U	0.000772	U	0.000696	U	0.000792	U	0.000704	U	0.00073	U	0.000725	U	0.000687	U
Endrin aldehyde	7421-93-4	mg/kg	NS	NS	NS	NS	0.00232	U	0.00235	U	0.00219	U	0.00232	U	0.00208	U	0.00217	U	0.00232	U	0.00209	U	0.00238	U	0.00211	U	0.00219	U	0.00218	U	0.00206	U
Endrin ketone	53494-70-5	mg/kg	NS	NS	NS	NS	0.00186	U	0.00188	U	0.00176	U	0.00186	U	0.00167	U	0.00173	U	0.00185	U	0.00167	U	0.0019	U	0.00169	U	0.00175	U	0.00174	U	0.00165	U
gamma-BHC (Lindane)	58-89-9	mg/kg	0.025	0.21	0.21	0.05	0.000773	U	0.000784	U	0.000731	U	0.000775	U	0.000694	U	0.000722	U	0.000772	U	0.000696	U	0.000792	U	0.000704	U	0.00073	U	0.000725	U	0.000687	U
gamma-Chlordane	5103-74-2	mg/kg	NS	NS	NS	NS	0.00232	U	0.00235	U	0.00219	U	0.00232	U	0.00208	U	0.00217	U	0.00232	U	0.00209	U	0.00238	U	0.00211	U	0.00219	U	0.00218	U	0.00206	U
Heptachlor	76-44-8	mg/kg	0.013	0.53	5.1	0.38	0.000928	U	0.000941	U	0.000878	U	0.00093	U	0.000833	U	0.000867	U	0.000926	U	0.000836	U	0.00095	U	0.000844	U	0.000876	U	0.00087	U	0.000825	U
Heptachlor epoxide	1024-57-3	mg/kg	NS	NS	NS	NS	0.00348	U	0.00353	U	0.00329	U	0.00349	U	0.00312	U	0.00325	U	0.00347	U	0.00313	U	0.00356	U	0.00317	U	0.00328	U	0.00326	U	0.00309	U
Methoxychlor	72-43-5	mg/kg	NS	NS	NS	NS	0.00348	U	0.00353	U	0.00329	U	0.00349	U	0.00312	U	0.00325	U	0.00347	U	0.00313	U	0.00356	U	0.00317	U	0.00328	U	0.00326	U	0.00309	U
Toxaphene	8001-35-2	mg/kg	NS	NS	NS	NS	0.0348	U	0.0353	U	0.0329	U	0.0349	U	0.0312	U	0.0325	U	0.0347	U	0.0313	U	0.0356	U	0.0317	U	0.0328	U	0.0326	U	0.0309	U

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs
Concentration Exceeds NYSDEC RRUSCOs
Concentration Exceeds NYSDEC UUSCOs
Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

TABLE 5.3
SUMMARY OF SOIL SAMPLING RESULTS—PESTICIDES

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-21 (7.0-7.5)		SB-21 (13.0-13.5)		SB-22 (1.0-1.5)		SB-22 (5.5-6.0)		SB-22 (11.5-12.0)		SB-23 (1-1.5)		SB-23 (5.5-6)		SB-24 (3.5-4)		SB-24 (7-7.5)		SB-25 (4.5-5)		SB-25 (7.5-8)		SB-25 (11-11.5)		SB-26 (4-4.5)	
LAB SAMPLE ID:							L2543726-06		L2543726-07		L2543726-01		L2543726-02		L2543726-03		L2547611-04		L2547611-03		L2547611-08		L2547611-09		L2547611-07		L2547611-05		L2547611-06		L2547764-15	
SAMPLE DATE:							7/11/2025		7/11/2025		7/11/2025		7/11/2025		7/11/2025		7/29/2025		7/29/2025		7/29/2025		7/29/2025		7/29/2025		7/29/2025		7/29/2025		7/30/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PESTICIDES (SW846 8081B)																																
4,4'-DDD	72-54-8	mg/kg	0.0033	5	33	14	0.00168	U	0.00162	U	0.00165	U	0.00173	U	0.00192	U	0.00116	J	0.00179	U	0.00263	P	0.00168	U	0.00173	U	0.00176	U	0.0017	U	0.00188	U
4,4'-DDE	72-55-9	mg/kg	0.0033	3.4	22	9.3	0.00168	U	0.00162	U	0.00165	U	0.00173	U	0.00192	U	0.00719		0.00164	J	0.0142	P	0.00168	U	0.00173	U	0.00176	U	0.0017	U	0.00188	U
4,4'-DDT	50-29-3	mg/kg	0.0033	3.8	27	135	0.00168	U	0.00162	U	0.00165	U	0.00173	U	0.00192	U	0.00552	IP	0.00179	U	0.00486	P	0.00168	U	0.00173	U	0.00176	U	0.0017	U	0.00188	U
Aldrin	309-00-2	mg/kg	0.0048	0.044	0.33	0.19	0.00168	U	0.00162	U	0.00165	U	0.00173	U	0.00192	U	0.00177	U	0.00179	U	0.00181	U	0.00168	U	0.00173	U	0.00176	U	0.0017	U	0.00188	U
alpha-BHC	319-84-6	mg/kg	0.02	0.18	1.2	0.02	0.000702	U	0.000676	U	0.000689	U	0.000722	U	0.000801	U	0.000738	U	0.000744	U	0.000754	U	0.000702	U	0.000719	U	0.000735	U	0.000711	U	0.000782	U
alpha-Chlordane	5103-71-9	mg/kg	0.014	0.65	8.2	4.5	0.00211	U	0.00203	U	0.00207	U	0.00217	U	0.0024	U	0.00221	U	0.00223	U	0.00938	P	0.00211	U	0.00216	U	0.0022	U	0.00213	U	0.00235	U
Beta-BHC	319-85-7	mg/kg	0.021	0.18	1.8	0.09	0.00168	U	0.00162	U	0.00165	U	0.00173	U	0.00192	U	0.00177	U	0.00179	U	0.00181	U	0.00168	U	0.00173	U	0.00176	U	0.0017	U	0.00188	U
Chlordane	57-74-9	mg/kg	NS	NS	NS	NS	0.014	U	0.0135	U	0.0138	U	0.0144	U	0.016	U	0.0148	U	0.0149	U	0.107		0.014	U	0.0144	U	0.0147	U	0.0142	U	0.0156	U
delta-BHC	319-86-8	mg/kg	0.04	100	500	0.1	0.00168	U	0.00162	U	0.00165	U	0.00173	U	0.00192	U	0.00177	U	0.00179	U	0.00181	U	0.00168	U	0.00173	U	0.00176	U	0.0017	U	0.00188	U
Dieldrin	60-57-1	mg/kg	0.005	0.075	0.48	0.1	0.00105	U	0.00101	U	0.00103	U	0.00108	U	0.0012	U	0.00111	U	0.00112	U	0.00515	P	0.00105	U	0.00108	U	0.0011	U	0.00106	U	0.00117	U
Endosulfan sulfate	1031-07-8	mg/kg	4.3	35	360	47	0.000702	U	0.000676	U	0.000689	U	0.000722	U	0.000801	U	0.000738	U	0.000744	U	0.000754	U	0.000702	U	0.000719	U	0.000735	U	0.000711	U	0.000782	U
Endosulfan-I	959-98-8	mg/kg	4.3	35	360	65	0.00168	U	0.00162	U	0.00165	U	0.00173	U	0.00192	U	0.00177	U	0.00179	U	0.00181	U	0.00168	U	0.00173	U	0.00176	U	0.0017	U	0.00188	U
Endosulfan-II	33213-65-9	mg/kg	4.3	35	360	44	0.00168	U	0.00162	U	0.00165	U	0.00173	U	0.00192	U	0.00177	U	0.00179	U	0.00181	U	0.00168	U	0.00173	U	0.00176	U	0.0017	U	0.00188	U
Endrin	72-20-8	mg/kg	0.014	5.3	55	0.06	0.000702	U	0.000676	U	0.000689	U	0.000722	U	0.000801	U	0.000738	U	0.000744	U	0.000754	U	0.000702	U	0.000719	U	0.000735	U	0.000711	U	0.000782	U
Endrin aldehyde	7421-93-4	mg/kg	NS	NS	NS	NS	0.00211	U	0.00203	U	0.00207	U	0.00217	U	0.0024	U	0.00221	U	0.00223	U	0.00226	U	0.00211	U	0.00216	U	0.0022	U	0.00213	U	0.00235	U
Endrin ketone	53494-70-5	mg/kg	NS	NS	NS	NS	0.00168	U	0.00162	U	0.00165	U	0.00173	U	0.00192	U	0.00177	U	0.00179	U	0.00181	U	0.00168	U	0.00173	U	0.00176	U	0.0017	U	0.00188	U
gamma-BHC (Lindane)	58-89-9	mg/kg	0.025	0.21	0.21	0.05	0.000702	U	0.000676	U	0.000689	U	0.000722	U	0.000801	U	0.000738	U	0.000744	U	0.000754	U	0.000702	U	0.000719	U	0.000735	U	0.000711	U	0.000782	U
gamma-Chlordane	5103-74-2	mg/kg	NS	NS	NS	NS	0.00211	U	0.00203	U	0.00207	U	0.00217	U	0.0024	U	0.00221	U	0.00223	U	0.0144	P	0.00211	U	0.00216	U	0.0022	U	0.00213	U	0.00235	U
Heptachlor	76-44-8	mg/kg	0.013	0.53	5.1	0.38	0.000843	U	0.000812	U	0.000826	U	0.000867	U	0.000961	U	0.000886	U	0.000893	U	0.000905	U	0.000843	U	0.000863	U	0.000882	U	0.000853	U	0.000939	U
Heptachlor epoxide	1024-57-3	mg/kg	NS	NS	NS	NS	0.00316	U	0.00304	U	0.0031	U	0.00325	U	0.0036	U	0.00332	U	0.00335	U	0.00339	U	0.00316	U	0.00324	U	0.00331	U	0.0032	U	0.00352	U
Methoxychlor	72-43-5	mg/kg	NS	NS	NS	NS	0.00316	U	0.00304	U	0.0031	U	0.00325	U	0.0036	U	0.00332	U	0.00335	U	0.00339	U	0.00316	U	0.00324	U	0.00331	U	0.0032	U	0.00352	U
Toxaphene	8001-35-2	mg/kg	NS	NS	NS	NS	0.0316	U	0.0304	U	0.031	U	0.0325	U	0.036	U	0.0332	U	0.0335	U	0.0339	U	0.0316	U	0.0324	U	0.0331	U	0.032	U	0.0352	U

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-26 (6.5-7)		SB-26 (12-12.5)		SB-27 (3-3.5)		SB-27 (7-7.5)		SB-27 (10-10.5)		SB-28 (1-1.5)		SB-28 (8-8.5)		SB-28 (10-10.5)		SB-29 (2.5-3)		SB-29 (8-8.5)		SB-29 (10.5-11)		SB-30 (2.5-3)		SB-30 (7.5-8)	
LAB SAMPLE ID:							L2547764-16		L2547764-17		L2547764-12		L2547764-14		L2547764-13		L2547764-09		L2547764-10		L2547764-11		L2547764-06		L2547764-07		L2547764-08		L2548308-07		L2548308-08	
SAMPLE DATE:							7/30/2025		7/30/2025		7/30/2025		7/30/2025		7/30/2025		7/30/2025		7/30/2025		7/30/2025		7/30/2025		7/30/2025		7/30/2025		7/31/2025		7/31/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PESTICIDES (SW846 8081B)																																
4,4'-DDD	72-54-8	mg/kg	0.0033	5	33	14	0.00176	U	0.00188	U	0.00183	U	0.00186	U	0.00173	U	0.00126	J	0.00181	U	0.00179	U	0.00182	U	0.0139	P	0.00452		0.00178	U	0.00172	U
4,4'-DDE	72-55-9	mg/kg	0.0033	3.4	22	9.3	0.00176	U	0.00188	U	0.00183	U	0.00186	U	0.00173	U	0.000423	J	0.00181	U	0.00179	U	0.00182	U	0.00316	P	0.000649	JIP	0.00178	U	0.00172	U
4,4'-DDT	50-29-3	mg/kg	0.0033	3.8	27	135	0.00176	U	0.00188	U	0.00183	U	0.00186	U	0.00173	U	0.00177	U	0.00181	U	0.00179	U	0.00182	U	0.00174	JP	0.00166	U	0.00178	U	0.00172	U
Aldrin	309-00-2	mg/kg	0.0048	0.044	0.33	0.19	0.00176	U	0.00188	U	0.00183	U	0.00186	U	0.00173	U	0.00177	U	0.00181	U	0.00179	U	0.00182	U	0.00177	U	0.00166	U	0.00178	U	0.00172	U
alpha-BHC	319-84-6	mg/kg	0.02	0.18	1.2	0.02	0.000732	U	0.000782	U	0.000762	U	0.000774	U	0.000722	U	0.000739	U	0.000756	U	0.000745	U	0.000758	U	0.000739	U	0.000692	U	0.000742	U	0.000717	U
alpha-Chlordane	5103-71-9	mg/kg	0.014	0.65	8.2	4.5	0.0022	U	0.00234	U	0.00228	U	0.00232	U	0.00217	U	0.00222	U	0.00227	U	0.00224	U	0.00228	U	0.00174	JP	0.000948	J	0.00222	U	0.00215	U
Beta-BHC	319-85-7	mg/kg	0.021	0.18	1.8	0.09	0.00176	U	0.00188	U	0.00183	U	0.00186	U	0.00173	U	0.00177	U	0.00181	U	0.00179	U	0.00182	U	0.00177	U	0.00166	U	0.00178	U	0.00172	U
Chlordane	57-74-9	mg/kg	NS	NS	NS	NS	0.0146	U	0.0156	U	0.0152	U	0.0155	U	0.0144	U	0.0148	U	0.0151	U	0.0149	U	0.0152	U	0.0243	P	0.0138	U	0.0148	U	0.0143	U
delta-BHC	319-86-8	mg/kg	0.04	100	500	0.1	0.00176	U	0.00188	U	0.00183	U	0.00186	U	0.00173	U	0.00177	U	0.00181	U	0.00179	U	0.00182	U	0.00177	U	0.00166	U	0.00178	U	0.00172	U
Dieldrin	60-57-1	mg/kg	0.005	0.075	0.48	0.1	0.0011	U	0.00117	U	0.00114	U	0.00116	U	0.00108	U	0.00111	U	0.00113	U	0.00112	U	0.0065		0.00111	U	0.00104	U	0.00111	U	0.00108	U
Endosulfan sulfate	1031-07-8	mg/kg	4.3	35	360	47	0.000732	U	0.000782	U	0.000762	U	0.000774	U	0.000722	U	0.000739	U	0.000756	U	0.000745	U	0.000758	U	0.000739	U	0.000692	U	0.000742	U	0.000717	U
Endosulfan-I	959-98-8	mg/kg	4.3	35	360	65	0.00176	U	0.00188	U	0.00183	U	0.00186	U	0.00173	U	0.00177	U	0.00181	U	0.00179	U	0.00182	U	0.00177	U	0.00166	U	0.00178	U	0.00172	U
Endosulfan-II	33213-65-9	mg/kg	4.3	35	360	44	0.00176	U	0.00188	U	0.00183	U	0.00186	U	0.00173	U	0.00177	U	0.00181	U	0.00179	U	0.00182	U	0.00177	U	0.00166	U	0.00178	U	0.00172	U
Endrin	72-20-8	mg/kg	0.014	5.3	55	0.06	0.000732	U	0.000782	U	0.000762	U	0.000774	U	0.000722	U	0.000739	U	0.000756	U	0.000745	U	0.000758	U	0.000739	U	0.000692	U	0.000742	U	0.000717	U
Endrin aldehyde	7421-93-4	mg/kg	NS	NS	NS	NS	0.0022	U	0.00234	U	0.00228	U	0.00232	U	0.00217	U	0.00222	U	0.00227	U	0.00224	U	0.00228	U	0.00222	U	0.00208	U	0.00222	U	0.00215	U
Endrin ketone	53494-70-5	mg/kg	NS	NS	NS	NS	0.00176	U	0.00188	U	0.00183	U	0.00186	U	0.00173	U	0.00177	U	0.00181	U	0.00179	U	0.00182	U	0.00177	U	0.00166	U	0.00178	U	0.00172	U
gamma-BHC (Lindane)	58-89-9	mg/kg	0.025	0.21	0.21	0.05	0.000732	U	0.000782	U	0.000762	U	0.000774	U	0.000722	U	0.000739	U	0.000756	U	0.000745	U	0.000758	U	0.000739	U	0.000692	U	0.000742	U	0.000717	U
gamma-Chlordane	5103-74-2	mg/kg	NS	NS	NS	NS	0.0022	U	0.00234	U	0.00228	U	0.00232	U	0.00217	U	0.00222	U	0.00227	U	0.00224	U	0.00228	U	0.0053	P	0.00074	JIP	0.00222	U	0.00215	U
Heptachlor	76-44-8	mg/kg	0.013	0.53	5.1	0.38	0.000879	U	0.000938	U	0.000914	U	0.000928	U	0.000867	U	0.000886	U	0.000907	U	0.000894	U	0.00091	U	0.000886	U	0.00083	U	0.00089	U	0.000861	U
Heptachlor epoxide	1024-57-3	mg/kg	NS	NS	NS	NS	0.0033	U	0.00352	U	0.00343	U	0.00348	U	0.00325	U	0.00332	U	0.0034	U	0.00335	U	0.00341	U	0.00332	U	0.00311	U	0.00334	U	0.00323	U
Methoxychlor	72-43-5	mg/kg	NS	NS	NS	NS	0.0033	U	0.00352	U	0.00343	U	0.00348	U	0.00325	U	0.00332	U	0.0034	U	0.00335	U	0.00341	U	0.00332	U	0.00311	U	0.00334	U	0.00323	U
Toxaphene	8001-35-2	mg/kg	NS	NS	NS	NS	0.033	U	0.0352	U	0.0343	U	0.0348	U	0.0325	U	0.0332	U	0.034	U	0.0335	U	0.0341	U	0.0332	U	0.0311	U	0.0334	U	0.0323	U

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs

Concentration Exceeds NYSDEC RRUSCOs

Concentration Exceeds NYSDEC UUSCOs

Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

SESI
CONSULTING ENGINEERS

REMEDIAL INVESTIGATION REPORT

TABLE 5.3
SUMMARY OF SOIL SAMPLING RESULTS—PESTICIDES

26-28, 40, 60 East Post Road
223-225 Dr. MLK Jr. Blvd.
and Brookfield Street
White Plains, NY

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-30 (10.5-11)		SB-31 (4.5-5.0)		SB-31 (9.5-10)		SB-31 (10.5-11)		SB-32 (1-1.5)		SB-32 (4-4.5)		SB-32 (13.5-14)		SB-33 (4-4.5)		SB-33 (6-6.5)		SB-33 (11.5-12)		SB-34 (2.5-3)		SB-34 (7-7.5)		SB-34 (10.5-11)	
LAB SAMPLE ID:							L2548308-09		L2548308-10		L2548308-12		L2548308-11		L2548308-14		L2548308-13		L2548308-15		L2548308-16		L2548308-17		L2548308-18		L2548308-04		L2548308-05		L2548308-06	
SAMPLE DATE:							7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PESTICIDES (SW846 8081B)																																
4,4'-DDD	72-54-8	mg/kg	0.0033	5	33	14	0.00169	U	0.00165	U	0.00174	U	0.00171	U	0.00173	U	0.00163	U	0.00168	U	0.00172	U	0.00168	U	0.0018	U	0.00164	U	0.00175	U	0.00178	U
4,4'-DDE	72-55-9	mg/kg	0.0033	3.4	22	9.3	0.00169	U	0.00165	U	0.00174	U	0.00171	U	0.00173	U	0.00163	U	0.00168	U	0.00172	U	0.00168	U	0.0018	U	0.00164	U	0.00175	U	0.00178	U
4,4'-DDT	50-29-3	mg/kg	0.0033	3.8	27	135	0.00169	U	0.00165	U	0.00174	U	0.00171	U	0.00173	U	0.00163	U	0.00168	U	0.00172	U	0.00168	U	0.0018	U	0.00164	U	0.00175	U	0.00178	U
Aldrin	309-00-2	mg/kg	0.0048	0.044	0.33	0.19	0.00169	U	0.00165	U	0.00174	U	0.00171	U	0.00173	U	0.00163	U	0.00168	U	0.00172	U	0.00168	U	0.0018	U	0.00164	U	0.00175	U	0.00178	U
alpha-BHC	319-84-6	mg/kg	0.02	0.18	1.2	0.02	0.000705	U	0.000686	U	0.000725	U	0.000714	U	0.000721	U	0.000681	U	0.0007	U	0.000718	U	0.0007	U	0.000749	U	0.000684	U	0.000728	U	0.00074	U
alpha-Chlordane	5103-71-9	mg/kg	0.014	0.65	8.2	4.5	0.00212	U	0.00206	U	0.00218	U	0.00214	U	0.00216	U	0.00204	U	0.0021	U	0.00215	U	0.0021	U	0.00225	U	0.00205	U	0.00218	U	0.00222	U
Beta-BHC	319-85-7	mg/kg	0.021	0.18	1.8	0.09	0.00169	U	0.00165	U	0.00174	U	0.00171	U	0.00173	U	0.00163	U	0.00168	U	0.00172	U	0.00168	U	0.0018	U	0.00164	U	0.00175	U	0.00178	U
Chlordane	57-74-9	mg/kg	NS	NS	NS	NS	0.0141	U	0.0137	U	0.0145	U	0.0143	U	0.0144	U	0.0136	U	0.014	U	0.0144	U	0.014	U	0.015	U	0.0137	U	0.0146	U	0.0148	U
delta-BHC	319-86-8	mg/kg	0.04	100	500	0.1	0.00169	U	0.00165	U	0.00174	U	0.00171	U	0.00173	U	0.00163	U	0.00168	U	0.00172	U	0.00168	U	0.0018	U	0.00164	U	0.00175	U	0.00178	U
Dieldrin	60-57-1	mg/kg	0.005	0.075	0.48	0.1	0.00106	U	0.00103	U	0.00109	U	0.00107	U	0.00108	U	0.00102	U	0.00105	U	0.00108	U	0.00105	U	0.00112	U	0.00103	U	0.00109	U	0.00111	U
Endosulfan sulfate	1031-07-8	mg/kg	4.3	35	360	47	0.000705	U	0.000686	U	0.000725	U	0.000714	U	0.000721	U	0.000681	U	0.0007	U	0.000718	U	0.0007	U	0.000749	U	0.000684	U	0.000728	U	0.00074	U
Endosulfan-I	959-98-8	mg/kg	4.3	35	360	65	0.00169	U	0.00165	U	0.00174	U	0.00171	U	0.00173	U	0.00163	U	0.00168	U	0.00172	U	0.00168	U	0.0018	U	0.00164	U	0.00175	U	0.00178	U
Endosulfan-II	33213-65-9	mg/kg	4.3	35	360	44	0.00169	U	0.00165	U	0.00174	U	0.00171	U	0.00173	U	0.00163	U	0.00168	U	0.00172	U	0.00168	U	0.0018	U	0.00164	U	0.00175	U	0.00178	U
Endrin	72-20-8	mg/kg	0.014	5.3	55	0.06	0.000705	U	0.000686	U	0.000725	U	0.000674	J	0.000721	U	0.000681	U	0.0007	U	0.000718	U	0.0007	U	0.000749	U	0.000684	U	0.000728	U	0.00074	U
Endrin aldehyde	7421-93-4	mg/kg	NS	NS	NS	NS	0.00212	U	0.00206	U	0.00218	U	0.00214	U	0.00216	U	0.00204	U	0.0021	U	0.00215	U	0.0021	U	0.00225	U	0.00205	U	0.00218	U	0.00222	U
Endrin ketone	53494-70-5	mg/kg	NS	NS	NS	NS	0.00169	U	0.00165	U	0.00174	U	0.00171	U	0.00173	U	0.00163	U	0.00168	U	0.00172	U	0.00168	U	0.0018	U	0.00164	U	0.00175	U	0.00178	U
gamma-BHC (Lindane)	58-89-9	mg/kg	0.025	0.21	0.21	0.05	0.000705	U	0.000686	U	0.000725	U	0.000714	U	0.000721	U	0.000681	U	0.0007	U	0.000718	U	0.0007	U	0.000749	U	0.000684	U	0.000728	U	0.00074	U
gamma-Chlordane	5103-74-2	mg/kg	NS	NS	NS	NS	0.00212	U	0.00206	U	0.00218	U	0.00214	U	0.00216	U	0.00204	U	0.0021	U	0.00215	U	0.0021	U	0.00225	U	0.00205	U	0.00218	U	0.00222	U
Heptachlor	76-44-8	mg/kg	0.013	0.53	5.1	0.38	0.000846	U	0.000824	U	0.00087	U	0.000857	U	0.000865	U	0.000817	U	0.00084	U	0.000862	U	0.00084	U	0.000899	U	0.000821	U	0.000873	U	0.000888	U
Heptachlor epoxide	1024-57-3	mg/kg	NS	NS	NS	NS	0.00317	U	0.00309	U	0.00326	U	0.00321	U	0.00324	U	0.00306	U	0.00315	U	0.00323	U	0.00315	U	0.00337	U	0.00308	U	0.00327	U	0.00333	U
Methoxychlor	72-43-5	mg/kg	NS	NS	NS	NS	0.00317	U	0.00309	U	0.00326	U	0.00321	U	0.00324	U	0.00306	U	0.00315	U	0.00323	U	0.00315	U	0.00337	U	0.00308	U	0.00327	U	0.00333	U
Toxaphene	8001-35-2	mg/kg	NS	NS	NS	NS	0.0317	U	0.0309	U	0.0326	U	0.0321	U	0.0324	U	0.0306	U	0.0315	U	0.0323	U	0.0315	U	0.0337	U	0.0308	U	0.0327	U	0.0333	U

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-35 (0.5-1)		SB-35 (9-9.5)		SB-35 (11.5-12)		SB-36 (4-5)		SB-36 (8-9)		SB-37 (4-4.5)		SB-37 (8.5-9)		SB-37 (11.5-12)		SB-37 (17-17.5)		SB-38 (2-2.5)		SB-38 (5.5-6)		SB-38 (12.5-13)		SB-38 (16.5-17)	
LAB SAMPLE ID:							L2548308-01		L2548308-02		L2548308-03		L2548397-02		L2548397-01		L2548309-03		L2548309-02		L2548309-04		L2548309-01		L2547764-02		L2547764-03		L2547764-04		L2547764-05	
SAMPLE DATE:							7/31/2025		7/31/2025		7/31/2025		8/1/2025		8/1/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/30/2025		7/30/2025		7/30/2025		7/30/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PESTICIDES (SW846 8081B)																																
4,4'-DDD	72-54-8	mg/kg	0.0033	5	33	14	0.00168	U	0.00174	U	0.00175	U	0.00168	U	0.0017	U	0.00171	U	0.00186	J	0.00179	U	0.00166	U	0.00181	U	0.00201	U	0.00171	U	0.00169	U
4,4'-DDE	72-55-9	mg/kg	0.0033	3.4	22	9.3	0.00168	U	0.00174	U	0.00175	U	0.00168	U	0.0017	U	0.00171	U	0.00206	U	0.00179	U	0.00166	U	0.00181	U	0.00201	U	0.00171	U	0.00169	U
4,4'-DDT	50-29-3	mg/kg	0.0033	3.8	27	135	0.00168	U	0.00174	U	0.00175	U	0.00168	U	0.0017	U	0.00171	U	0.00206	U	0.00179	U	0.00166	U	0.00181	U	0.00201	U	0.00171	U	0.00169	U
Aldrin	309-00-2	mg/kg	0.0048	0.044	0.33	0.19	0.00168	U	0.00174	U	0.00175	U	0.00168	U	0.0017	U	0.00171	U	0.00206	U	0.00179	U	0.00166	U	0.00181	U	0.00201	U	0.00171	U	0.00169	U
alpha-BHC	319-84-6	mg/kg	0.02	0.18	1.2	0.02	0.0007	U	0.000727	U	0.000728	U	0.000699	U	0.000709	U	0.000712	U	0.000857	U	0.000744	U	0.00069	U	0.000753	U	0.00084	U	0.000711	U	0.000703	U
alpha-Chlordane	5103-71-9	mg/kg	0.014	0.65	8.2	4.5	0.0021	U	0.00218	U	0.00218	U	0.0021	U	0.00212	U	0.00214	U	0.00257	U	0.00223	U	0.00207	U	0.00226	U	0.00252	U	0.00213	U	0.00211	U
Beta-BHC	319-85-7	mg/kg	0.021	0.18	1.8	0.09	0.00168	U	0.00174	U	0.00175	U	0.00168	U	0.0017	U	0.00171	U	0.00206	U	0.00179	U	0.00166	U	0.00181	U	0.00201	U	0.00171	U	0.00169	U
Chlordane	57-74-9	mg/kg	NS	NS	NS	NS	0.014	U	0.0145	U	0.0146	U	0.014	U	0.0142	U	0.0142	U	0.0171	U	0.0149	U	0.0138	U	0.015	U	0.0168	U	0.0142	U	0.014	U
delta-BHC	319-86-8	mg/kg	0.04	100	500	0.1	0.00168	U	0.00174	U	0.00175	U	0.00168	U	0.0017	U	0.00171	U	0.00206	U	0.00179	U	0.00166	U	0.00181	U	0.00201	U	0.00171	U	0.00169	U
Dieldrin	60-57-1	mg/kg	0.005	0.075	0.48	0.1	0.00105	U	0.00109	U	0.00109	U	0.00105	U	0.00106	U	0.00107	U	0.00128	U	0.00112	U	0.00104	U	0.00113	U	0.00126	U	0.00107	U	0.00105	U
Endosulfan sulfate	1031-07-8	mg/kg	4.3	35	360	47	0.0007	U	0.000727	U	0.000728	U	0.000699	U	0.000709	U	0.000712	U	0.000857	U	0.000744	U	0.00069	U	0.000753	U	0.00084	U	0.000711	U	0.000703	U
Endosulfan-I	959-98-8	mg/kg	4.3	35	360	65	0.00168	U	0.00174	U	0.00175	U	0.00168	U	0.0017	U	0.00171	U	0.00206	U	0.00179	U	0.00166	U	0.00181	U	0.00201	U	0.00171	U	0.00169	U
Endosulfan-II	33213-65-9	mg/kg	4.3	35	360	44	0.00168	U	0.00174	U	0.00175	U	0.00168	U	0.0017	U	0.00171	U	0.00206	U	0.00179	U	0.00166	U	0.00181	U	0.00201	U	0.00171	U	0.00169	U
Endrin	72-20-8	mg/kg	0.014	5.3	55	0.06	0.0007	U	0.000727	U	0.000728	U	0.000699	U	0.000709	U	0.000712	U	0.000857	U	0.000744	U	0.00069	U	0.000753	U	0.00084	U	0.000711	U	0.000703	U
Endrin aldehyde	7421-93-4	mg/kg	NS	NS	NS	NS	0.0021	U	0.00218	U	0.00218	U	0.0021	U	0.00212	U	0.00214	U	0.00257	U	0.00223	U	0.00207	U	0.00226	U	0.00252	U	0.00213	U	0.00211	U
Endrin ketone	53494-70-5	mg/kg	NS	NS	NS	NS	0.00168	U	0.00174	U	0.00175	U	0.00168	U	0.0017	U	0.00171	U	0.00206	U	0.00179	U	0.00166	U	0.00181	U	0.00201	U	0.00171	U	0.00169	U
gamma-BHC (Lindane)	58-89-9	mg/kg	0.025	0.21	0.21	0.05	0.0007	U	0.000727	U	0.000728	U	0.000699	U	0.000709	U	0.000712	U	0.000857	U	0.000744	U	0.00069	U	0.000753	U	0.00084	U	0.000711	U	0.000703	U
gamma-Chlordane	5103-74-2	mg/kg	NS	NS	NS	NS	0.0021	U	0.00218	U	0.00218	U	0.0021	U	0.00212	U	0.00214	U	0.00257	U	0.00223	U	0.00207	U	0.00226	U	0.00252	U	0.00213	U	0.00211	U
Heptachlor	76-44-8	mg/kg	0.013	0.53	5.1	0.38	0.00084	U	0.000872	U	0.000874	U	0.000839	U	0.00085	U	0.000855	U	0.00103	U	0.000893	U	0.000828	U	0.000903	U	0.00101	U	0.000854	U	0.000843	U
Heptachlor epoxide	1024-57-3	mg/kg	NS	NS	NS	NS	0.00315	U	0.00327	U	0.00328	U	0.00315	U	0.00319	U	0.0032	U	0.00386	U	0.00335	U	0.0031	U	0.00339	U	0.00378	U	0.0032	U	0.00316	U
Methoxychlor	72-43-5	mg/kg	NS	NS	NS	NS	0.00315	U	0.00327	U	0.00328	U	0.00315	U	0.00319	U	0.0032	U	0.00386	U	0.00335	U	0.0031	U	0.00339	U	0.00378	U	0.0032	U	0.00316	U
Toxaphene	8001-35-2	mg/kg	NS	NS	NS	NS	0.0315	U	0.0327	U	0.0328	U	0.0315	U	0.0319	U	0.032	U	0.0386	U	0.0335	U	0.031	U	0.0339	U	0.0378	U	0.032	U	0.0316	U

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs
Concentration Exceeds NYSDEC RRUSCOs
Concentration Exceeds NYSDEC UUSCOs
Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

SESI
CONSULTING ENGINEERS

REMEDIAL INVESTIGATION REPORT

TABLE 5.3
SUMMARY OF SOIL SAMPLING RESULTS—PESTICIDES

26-28, 40, 60 East Post Road
223-225 Dr. MLK Jr. Blvd.
and Brookfield Street
White Plains, NY

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-39 (2.5-3)		SB-39 (9.5-10)		SB-39 (14-14.5)		SB-39 (15.5-16)		SB-40 (1-1.5)		SB-40 (8-9)		SB-40 (13.5-14)		SB-41 (0.5-1.5)		SB-41 (7-8)		SB-42 (3-4)		SB-42 (8-9)		SB-43 (0.5-1.5)		SB-43 (9-10)	
LAB SAMPLE ID:							L2548309-05		L2548309-06		L2548309-07		L2548309-09		L2550303-01		L2550303-02		L2550303-03		L2550303-04		L2550303-05		L2550303-06		L2550303-07		L2550303-08		L2550303-09	
SAMPLE DATE:							7/31/2025		7/31/2025		7/31/2025		7/31/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PESTICIDES (SW846 8081B)																																
4,4'-DDD	72-54-8	mg/kg	0.0033	5	33	14	0.0017	U	0.00172	U	0.00173	U	0.00162	U	0.00162	U	0.00192	U	0.002	U	0.00165	U	0.00177	U	0.00166	U	0.00182	U	0.00163	U	0.00206	U
4,4'-DDE	72-55-9	mg/kg	0.0033	3.4	22	9.3	0.0017	U	0.00172	U	0.00173	U	0.00162	U	0.00162	U	0.00192	U	0.002	U	0.00165	U	0.00177	U	0.00166	U	0.00182	U	0.00163	U	0.00206	U
4,4'-DDT	50-29-3	mg/kg	0.0033	3.8	27	135	0.0017	U	0.00172	U	0.00173	U	0.00162	U	0.00162	U	0.00192	U	0.002	U	0.00165	U	0.00177	U	0.00166	U	0.00182	U	0.00163	U	0.00206	U
Aldrin	309-00-2	mg/kg	0.0048	0.044	0.33	0.19	0.0017	U	0.00172	U	0.00173	U	0.00162	U	0.00162	U	0.00192	U	0.002	U	0.00165	U	0.00177	U	0.00166	U	0.00182	U	0.00163	U	0.00206	U
alpha-BHC	319-84-6	mg/kg	0.02	0.18	1.2	0.02	0.000709	U	0.000715	U	0.000721	U	0.000674	U	0.000677	U	0.0008	U	0.000834	U	0.000687	U	0.000739	U	0.000691	U	0.000757	U	0.000678	U	0.000859	U
alpha-Chlordane	5103-71-9	mg/kg	0.014	0.65	8.2	4.5	0.00212	U	0.00215	U	0.00216	U	0.00202	U	0.00203	U	0.0024	U	0.0025	U	0.00206	U	0.00222	U	0.00207	U	0.00227	U	0.00204	U	0.00258	U
Beta-BHC	319-85-7	mg/kg	0.021	0.18	1.8	0.09	0.0017	U	0.00172	U	0.00173	U	0.00162	U	0.00162	U	0.00192	U	0.002	U	0.00165	U	0.00177	U	0.00166	U	0.00182	U	0.00163	U	0.00206	U
Chlordane	57-74-9	mg/kg	NS	NS	NS	NS	0.0142	U	0.0143	U	0.0144	U	0.0135	U	0.0135	U	0.016	U	0.0167	U	0.0137	U	0.0148	U	0.0138	U	0.0151	U	0.0136	U	0.0172	U
delta-BHC	319-86-8	mg/kg	0.04	100	500	0.1	0.0017	U	0.00172	U	0.00173	U	0.00162	U	0.00162	U	0.00192	U	0.002	U	0.00165	U	0.00177	U	0.00166	U	0.00182	U	0.00163	U	0.00206	U
Dieldrin	60-57-1	mg/kg	0.005	0.075	0.48	0.1	0.00106	U	0.00107	U	0.00108	U	0.00101	U	0.00102	U	0.0012	U	0.00125	U	0.00103	U	0.00111	U	0.00104	U	0.00113	U	0.00102	U	0.00129	U
Endosulfan sulfate	1031-07-8	mg/kg	4.3	35	360	47	0.000709	U	0.000715	U	0.000721	U	0.000674	U	0.000677	U	0.0008	U	0.000834	U	0.000687	U	0.000739	U	0.000691	U	0.000757	U	0.000678	U	0.000859	U
Endosulfan-I	959-98-8	mg/kg	4.3	35	360	65	0.0017	U	0.00172	U	0.00173	U	0.00162	U	0.00162	U	0.00192	U	0.002	U	0.00165	U	0.00177	U	0.00166	U	0.00182	U	0.00163	U	0.00206	U
Endosulfan-II	33213-65-9	mg/kg	4.3	35	360	44	0.0017	U	0.00172	U	0.00173	U	0.00162	U	0.00162	U	0.00192	U	0.002	U	0.00165	U	0.00177	U	0.00166	U	0.00182	U	0.00163	U	0.00206	U
Endrin	72-20-8	mg/kg	0.014	5.3	55	0.06	0.000709	U	0.000715	U	0.000721	U	0.000674	U	0.000677	U	0.0008	U	0.000834	U	0.000687	U	0.000739	U	0.000691	U	0.000757	U	0.000678	U	0.000859	U
Endrin aldehyde	7421-93-4	mg/kg	NS	NS	NS	NS	0.00212	U	0.00215	U	0.00216	U	0.00202	U	0.00203	U	0.0024	U	0.0025	U	0.00206	U	0.00222	U	0.00207	U	0.00227	U	0.00204	U	0.00258	U
Endrin ketone	53494-70-5	mg/kg	NS	NS	NS	NS	0.0017	U	0.00172	U	0.00173	U	0.00162	U	0.00162	U	0.00192	U	0.002	U	0.00165	U	0.00177	U	0.00166	U	0.00182	U	0.00163	U	0.00206	U
gamma-BHC (Lindane)	58-89-9	mg/kg	0.025	0.21	0.21	0.05	0.000709	U	0.000715	U	0.000721	U	0.000674	U	0.000677	U	0.0008	U	0.000834	U	0.000687	U	0.000739	U	0.000691	U	0.000757	U	0.000678	U	0.000859	U
gamma-Chlordane	5103-74-2	mg/kg	NS	NS	NS	NS	0.00212	U	0.00215	U	0.00216	U	0.00202	U	0.00203	U	0.0024	U	0.0025	U	0.00206	U	0.00222	U	0.00207	U	0.00227	U	0.00204	U	0.00258	U
Heptachlor	76-44-8	mg/kg	0.013	0.53	5.1	0.38	0.00085	U	0.000858	U	0.000866	U	0.000809	U	0.000812	U	0.00096	U	0.001	U	0.000824	U	0.000886	U	0.000829	U	0.000908	U	0.000814	U	0.00103	U
Heptachlor epoxide	1024-57-3	mg/kg	NS	NS	NS	NS	0.00319	U	0.00322	U	0.00325	U	0.00303	U	0.00305	U	0.0036	U	0.00375	U	0.00309	U	0.00332	U	0.00311	U	0.0034	U	0.00305	U	0.00386	U
Methoxychlor	72-43-5	mg/kg	NS	NS	NS	NS	0.00319	U	0.00322	U	0.00325	U	0.00303	U	0.00305	U	0.0036	U	0.00375	U	0.00309	U	0.00332	U	0.00311	U	0.0034	U	0.00305	U	0.00386	U
Toxaphene	8001-35-2	mg/kg	NS	NS	NS	NS	0.0319	U	0.0322	U	0.0325	U	0.0303	U	0.0305	U	0.036	U	0.0375	U	0.0309	U	0.0332	U	0.0311	U	0.034	U	0.0305	U	0.0386	U

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-44 (2-3)		SB-45 (1-2)		SB-45 (9-10)		SB-46 (1-2)		SB-46 (7-8)		SB-47 (4-5)		SB-47 (9-10)		SB-50 (4-5)		SB-50 (6.5-7.5)		SB-51 (2-3)		SB-51 (9-10)		SB-52 (2-3)		SB-52 (7.5-8.5)	
LAB SAMPLE ID:							L2553523-01		L2550303-11		L2550303-12		L2553533-01		L2553533-02		L2553536-01		L2553536-02		L2550303-22		L2550303-23		L2550303-24		L2550303-25		L2553523-02		L2553523-03	
SAMPLE DATE:							8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PESTICIDES (SW846 8081B)																																
4,4'-DDD	72-54-8	mg/kg	0.0033	5	33	14	0.00166	U	0.00133	J	0.00179	U	0.00167	U	0.00176	U	0.00171	U	0.0168	U	0.00171	U	0.00156	U	0.00192	U	0.00201	U	0.00158	U	0.00179	U
4,4'-DDE	72-55-9	mg/kg	0.0033	3.4	22	9.3	0.00146	J	0.00321		0.00179	U	0.00167	U	0.00176	U	0.00171	U	0.0168	U	0.00171	U	0.00156	U	0.00192	U	0.00201	U	0.00158	U	0.00179	U
4,4'-DDT	50-29-3	mg/kg	0.0033	3.8	27	135	0.00415		0.00386		0.00179	U	0.00167	U	0.00176	U	0.00171	U	0.0168	U	0.00171	U	0.00156	U	0.00192	U	0.00201	U	0.00161		0.00179	U
Aldrin	309-00-2	mg/kg	0.0048	0.044	0.33	0.19	0.00166	U	0.00167	U	0.00179	U	0.00167	U	0.00176	U	0.00171	U	0.0168	U	0.00171	U	0.00156	U	0.00192	U	0.00201	U	0.00158	U	0.00179	U
alpha-BHC	319-84-6	mg/kg	0.02	0.18	1.2	0.02	0.000694	U	0.000695	U	0.000746	U	0.000697	U	0.000733	U	0.000712	U	0.00701	U	0.000714	U	0.000652	U	0.000802	U	0.000836	U	0.00066	U	0.000745	U
alpha-Chlordane	5103-71-9	mg/kg	0.014	0.65	8.2	4.5	0.00208	U	0.000587	J	0.00224	U	0.00209	U	0.0022	U	0.00214	U	0.021	U	0.00214	U	0.00195	U	0.00241	U	0.00251	U	0.00247	IP	0.00223	U
Beta-BHC	319-85-7	mg/kg	0.021	0.18	1.8	0.09	0.00166	U	0.00167	U	0.00179	U	0.00167	U	0.00176	U	0.00171	U	0.0168	U	0.00171	U	0.00156	U	0.00192	U	0.00201	U	0.00158	U	0.00179	U
Chlordane	57-74-9	mg/kg	NS	NS	NS	NS	0.0139	U	0.0139	U	0.0149	U	0.0139	U	0.0146	U	0.0142	U	0.14	U	0.0143	U	0.013	U	0.016	U	0.0167	U	0.0132	U	0.0149	U
delta-BHC	319-86-8	mg/kg	0.04	100	500	0.1	0.00166	U	0.00167	U	0.00179	U	0.00167	U	0.00176	U	0.00171	U	0.0168	U	0.00171	U	0.00156	U	0.00192	U	0.00201	U	0.00158	U	0.00179	U
Dieldrin	60-57-1	mg/kg	0.005	0.075	0.48	0.1	0.00104	U	0.00104	U	0.00112	U	0.00104	U	0.0011	U	0.00107	U	0.0105	U	0.00107	U	0.000977	U	0.0012	U	0.00125	U	0.00233		0.00112	U
Endosulfan sulfate	1031-07-8	mg/kg	4.3	35	360	47	0.000694	U	0.000695	U	0.000746	U	0.000697	U	0.000733	U	0.000712	U	0.00701	U	0.000714	U	0.000652	U	0.000802	U	0.000836	U	0.00066	U	0.000745	U
Endosulfan-I	959-98-8	mg/kg	4.3	35	360	65	0.00166	U	0.00167	U	0.00179	U	0.00167	U	0.00176	U	0.00171	U	0.0168	U	0.00171	U	0.00156	U	0.00192	U	0.00201	U	0.00158	U	0.00179	U
Endosulfan-II	33213-65-9	mg/kg	4.3	35	360	44	0.00166	U	0.00167	U	0.00179	U	0.00167	U	0.00176	U	0.00171	U	0.0168	U	0.00171	U	0.00156	U	0.00192	U	0.00201	U	0.00158	U	0.00179	U
Endrin	72-20-8	mg/kg	0.014	5.3	55	0.06	0.000694	U	0.000695	U	0.000746	U	0.000697	U	0.000733	U	0.000712	U	0.00701	U	0.000714	U	0.000652	U	0.000802	U	0.000836	U	0.00066	U	0.000745	U
Endrin aldehyde	7421-93-4	mg/kg	NS	NS	NS	NS	0.00208	U	0.00208	U	0.00224	U	0.00209	U	0.0022	U	0.00214	U	0.021	U	0.00214	U	0.00195	U	0.00241	U	0.00251	U	0.00198	U	0.00223	U
Endrin ketone	53494-70-5	mg/kg	NS	NS	NS	NS	0.00166	U	0.00167	U	0.00179	U	0.00167	U	0.00176	U	0.00171	U	0.0168	U	0.00171	U	0.00156	U	0.00192	U	0.00201	U	0.00158	U	0.00179	U
gamma-BHC (Lindane)	58-89-9	mg/kg	0.025	0.21	0.21	0.05	0.000694	U	0.000695	U	0.000746	U	0.000697	U	0.000733	U	0.000712	U	0.00701	U	0.000714	U	0.000652	U	0.000802	U	0.000836	U	0.00066	U	0.000745	U
gamma-Chlordane	5103-74-2	mg/kg	NS	NS	NS	NS	0.00208	U	0.00208	U	0.00224	U	0.00209	U	0.0022	U	0.00214	U	0.021	U	0.00214	U	0.00195	U	0.00241	U	0.00251	U	0.00246		0.00223	U
Heptachlor	76-44-8	mg/kg	0.013	0.53	5.1	0.38	0.000832	U	0.000834	U	0.000895	U	0.000836	U	0.000879	U	0.000854	U	0.00841	U	0.000857	U	0.000782	U	0.000962	U	0.001	U	0.000793	U	0.000894	U
Heptachlor epoxide	1024-57-3	mg/kg	NS	NS	NS	NS	0.00312	U	0.00313	U	0.00336	U	0.00314	U	0.0033	U	0.0032	U	0.0315	U	0.00321	U	0.00293	U	0.00361	U	0.00376	U	0.00297	U	0.00335	U
Methoxychlor	72-43-5	mg/kg	NS	NS	NS	NS	0.00312	U	0.00313	U	0.00336	U	0.00314	U	0.0033	U	0.0032	U	0.0315	U	0.00321	U	0.00293	U	0.00361	U	0.00376	U	0.00297	U	0.00335	U
Toxaphene	8001-35-2	mg/kg	NS	NS	NS	NS	0.0312	U	0.0313	U	0.0336	U	0.0314	U	0.033	U	0.032	U	0.315	U	0.0321	U	0.0293	U	0.0361	U	0.0376	U	0.0297	U	0.0335	U

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs
Concentration Exceeds NYSDEC RRUSCOs
Concentration Exceeds NYSDEC UUSCOs
Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

TABLE 5.3
SUMMARY OF SOIL SAMPLING RESULTS—PESTICIDES

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-56 (1-2)		SB-56 (9-10)		SB-56 (11-12)		SB-57 (1-2)		SB-57 (7.5-8.5)		SB-57 (10-11)		SB-58 (4-5)		SB-58 (7.5-8.5)		SB-59 (1-2)		SB-60 (2-3)		SB-60 (6-7)		SB-61 (1-2)		SB-61 (5-6)	
LAB SAMPLE ID:							L2550665-01		L2550665-02		L2550665-03		L2550665-04		L2550665-05		L2550665-06		L2550665-07		L2550665-08		L2550665-09		L2550665-10		L2550665-11		L2550665-12		L2550665-13	
SAMPLE DATE:							8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PESTICIDES (SW846 8081B)																																
4,4'-DDD	72-54-8	mg/kg	0.0033	5	33	14	0.00172	U	0.00167	U	0.00179	U	0.00175	U	0.00174	U	0.00173	U	0.0016	U	0.00175	U	0.00163	U	0.00166	U	0.0017	U	0.00339		0.000809	J
4,4'-DDE	72-55-9	mg/kg	0.0033	3.4	22	9.3	0.00172	U	0.00167	U	0.00179	U	0.00104	J	0.00174	U	0.00173	U	0.0016	U	0.00175	U	0.00163	U	0.00166	U	0.0017	U	0.00142	J	0.00178	U
4,4'-DDT	50-29-3	mg/kg	0.0033	3.8	27	135	0.00172	U	0.00167	U	0.00179	U	0.00175	U	0.00174	U	0.00173	U	0.0016	U	0.00175	U	0.00163	U	0.00166	U	0.0017	U	0.00177	U	0.00178	U
Aldrin	309-00-2	mg/kg	0.0048	0.044	0.33	0.19	0.00172	U	0.00167	U	0.00179	U	0.00175	U	0.00174	U	0.00173	U	0.0016	U	0.00175	U	0.00163	U	0.00166	U	0.0017	U	0.00177	U	0.00178	U
alpha-BHC	319-84-6	mg/kg	0.02	0.18	1.2	0.02	0.000715	U	0.000696	U	0.000745	U	0.00073	U	0.000725	U	0.000722	U	0.000668	U	0.000728	U	0.00068	U	0.000694	U	0.000707	U	0.000738	U	0.000742	U
alpha-Chlordane	5103-71-9	mg/kg	0.014	0.65	8.2	4.5	0.00215	U	0.00209	U	0.00223	U	0.00219	U	0.00218	U	0.00217	U	0.002	U	0.00218	U	0.00204	U	0.00208	U	0.00212	U	0.00221	U	0.00223	U
Beta-BHC	319-85-7	mg/kg	0.021	0.18	1.8	0.09	0.00172	U	0.00167	U	0.00179	U	0.00175	U	0.00174	U	0.00173	U	0.0016	U	0.00175	U	0.00163	U	0.00166	U	0.0017	U	0.00177	U	0.00178	U
Chlordane	57-74-9	mg/kg	NS	NS	NS	NS	0.0143	U	0.0139	U	0.0149	U	0.0146	U	0.0145	U	0.0144	U	0.0134	U	0.0146	U	0.0136	U	0.0139	U	0.0141	U	0.0148	U	0.0148	U
delta-BHC	319-86-8	mg/kg	0.04	100	500	0.1	0.00172	U	0.00167	U	0.00179	U	0.00175	U	0.00174	U	0.00173	U	0.0016	U	0.00175	U	0.00163	U	0.00166	U	0.0017	U	0.00177	U	0.00178	U
Dieldrin	60-57-1	mg/kg	0.005	0.075	0.48	0.1	0.00107	U	0.00104	U	0.00112	U	0.00109	U	0.00109	U	0.00108	U	0.001	U	0.00109	U	0.00102	U	0.00104	U	0.00106	U	0.00111	U	0.00111	U
Endosulfan sulfate	1031-07-8	mg/kg	4.3	35	360	47	0.000715	U	0.000696	U	0.000745	U	0.00073	U	0.000725	U	0.000722	U	0.000668	U	0.000728	U	0.00068	U	0.000694	U	0.000707	U	0.000738	U	0.000742	U
Endosulfan-I	959-98-8	mg/kg	4.3	35	360	65	0.00172	U	0.00167	U	0.00179	U	0.00175	U	0.00174	U	0.00173	U	0.0016	U	0.00175	U	0.00163	U	0.00166	U	0.0017	U	0.00177	U	0.00178	U
Endosulfan-II	33213-65-9	mg/kg	4.3	35	360	44	0.00172	U	0.00167	U	0.00179	U	0.00175	U	0.00174	U	0.00173	U	0.0016	U	0.00175	U	0.00163	U	0.00166	U	0.0017	U	0.00177	U	0.00178	U
Endrin	72-20-8	mg/kg	0.014	5.3	55	0.06	0.000715	U	0.000696	U	0.000745	U	0.00073	U	0.000725	U	0.000722	U	0.000668	U	0.000728	U	0.00068	U	0.000694	U	0.000707	U	0.000738	U	0.000742	U
Endrin aldehyde	7421-93-4	mg/kg	NS	NS	NS	NS	0.00215	U	0.00209	U	0.00223	U	0.00219	U	0.00218	U	0.00217	U	0.002	U	0.00218	U	0.00204	U	0.00208	U	0.00212	U	0.00221	U	0.00223	U
Endrin ketone	53494-70-5	mg/kg	NS	NS	NS	NS	0.00172	U	0.00167	U	0.00179	U	0.00175	U	0.00174	U	0.00173	U	0.0016	U	0.00175	U	0.00163	U	0.00166	U	0.0017	U	0.00177	U	0.00178	U
gamma-BHC (Lindane)	58-89-9	mg/kg	0.025	0.21	0.21	0.05	0.000715	U	0.000696	U	0.000745	U	0.00073	U	0.000725	U	0.000722	U	0.000668	U	0.000728	U	0.00068	U	0.000694	U	0.000707	U	0.000738	U	0.000742	U
gamma-Chlordane	5103-74-2	mg/kg	NS	NS	NS	NS	0.00215	U	0.00209	U	0.00223	U	0.00219	U	0.00218	U	0.00217	U	0.002	U	0.00218	U	0.00204	U	0.00208	U	0.00212	U	0.00221	U	0.00223	U
Heptachlor	76-44-8	mg/kg	0.013	0.53	5.1	0.38	0.000858	U	0.000835	U	0.000894	U	0.000876	U	0.00087	U	0.000867	U	0.000802	U	0.000874	U	0.000816	U	0.000833	U	0.000849	U	0.000886	U	0.000891	U
Heptachlor epoxide	1024-57-3	mg/kg	NS	NS	NS	NS	0.00322	U	0.00313	U	0.00335	U	0.00328	U	0.00326	U	0.00325	U	0.00301	U	0.00328	U	0.00306	U	0.00312	U	0.00318	U	0.00332	U	0.00334	U
Methoxychlor	72-43-5	mg/kg	NS	NS	NS	NS	0.00322	U	0.00313	U	0.00335	U	0.00328	U	0.00326	U	0.00325	U	0.00301	U	0.00328	U	0.00306	U	0.00312	U	0.00318	U	0.00332	U	0.00334	U
Toxaphene	8001-35-2	mg/kg	NS	NS	NS	NS	0.0322	U	0.0313	U	0.0335	U	0.0328	U	0.0326	U	0.0325	U	0.0301	U	0.0328	U	0.0306	U	0.0312	U	0.0318	U	0.0332	U	0.0334	U

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-62 (4-5)		SB-62 (6-7)		SB-63 (2-3)		SB-63 (7-8)		SB-64 (2-3)		SB-64 (7.5-8.5)		SB-65 (1-2)		SB-65 (6-7)		SB-66 (0.5-1.5)		SB-66 (8.75-9.75)		SB-68 (2.25-3.25)		SB-68 (5-6)		SB-69 (1-2)	
LAB SAMPLE ID:							L2550665-14		L2550665-15		L2553571-01		L2553571-02		L2553571-03		L2553571-04		L2550665-20		L2550665-21		L2553509-01		L2553509-02		L2551038-01		L2551038-02		L2551038-03	
SAMPLE DATE:							8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/13/2025		8/13/2025		8/13/2025		8/13/2025		8/13/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PESTICIDES (SW846 8081B)																																
4,4'-DDD	72-54-8	mg/kg	0.0033	5	33	14	0.00173	U	0.00175	U	0.00182	U	0.00168	U	0.0011	J	0.00165	U	0.00194	U	0.00165	U	0.00206	U	0.00173	U	0.00168	U	0.00161	U	0.00161	U
4,4'-DDE	72-55-9	mg/kg	0.0033	3.4	22	9.3	0.00173	U	0.00175	U	0.00182	U	0.00168	U	0.00288		0.00165	U	0.00194	U	0.00165	U	0.00206	U	0.00173	U	0.00168	U	0.00161	U	0.00161	U
4,4'-DDT	50-29-3	mg/kg	0.0033	3.8	27	135	0.00173	U	0.00175	U	0.00182	U	0.00168	U	0.00157	JIP	0.00165	U	0.00194	U	0.00165	U	0.00206	U	0.00173	U	0.00168	U	0.00161	U	0.00161	U
Aldrin	309-00-2	mg/kg	0.0048	0.044	0.33	0.19	0.00173	U	0.00175	U	0.00182	U	0.00168	U	0.0017	U	0.00165	U	0.00194	U	0.00165	U	0.00206	U	0.00173	U	0.00168	U	0.00161	U	0.00161	U
alpha-BHC	319-84-6	mg/kg	0.02	0.18	1.2	0.02	0.000719	U	0.000729	U	0.000756	U	0.000699	U	0.00071	U	0.000688	U	0.000809	U	0.000689	U	0.00086	U	0.000721	U	0.000699	U	0.000671	U	0.000669	U
alpha-Chlordane	5103-71-9	mg/kg	0.014	0.65	8.2	4.5	0.00216	U	0.00219	U	0.00227	U	0.0021	U	0.00213	U	0.00206	U	0.00243	U	0.00207	U	0.00258	U	0.00216	U	0.0021	U	0.00201	U	0.00201	U
Beta-BHC	319-85-7	mg/kg	0.021	0.18	1.8	0.09	0.00173	U	0.00175	U	0.00182	U	0.00168	U	0.0017	U	0.00165	U	0.00194	U	0.00165	U	0.00206	U	0.00173	U	0.00168	U	0.00161	U	0.00161	U
Chlordane	57-74-9	mg/kg	NS	NS	NS	NS	0.0144	U	0.0146	U	0.0151	U	0.014	U	0.0142	U	0.0138	U	0.0162	U	0.0138	U	0.0172	U	0.0144	U	0.014	U	0.0134	U	0.0134	U
delta-BHC	319-86-8	mg/kg	0.04	100	500	0.1	0.00173	U	0.00175	U	0.00182	U	0.00168	U	0.0017	U	0.00165	U	0.00194	U	0.00165	U	0.00206	U	0.00173	U	0.00168	U	0.00161	U	0.00161	U
Dieldrin	60-57-1	mg/kg	0.005	0.075	0.48	0.1	0.00108	U	0.00109	U	0.00113	U	0.00105	U	0.00106	U	0.00103	U	0.00121	U	0.00103	U	0.00129	U	0.00108	U	0.00105	U	0.00101	U	0.001	U
Endosulfan sulfate	1031-07-8	mg/kg	4.3	35	360	47	0.000719	U	0.000729	U	0.000756	U	0.000699	U	0.00071	U	0.000688	U	0.000809	U	0.000689	U	0.00086	U	0.000721	U	0.000699	U	0.000671	U	0.000669	U
Endosulfan-I	959-98-8	mg/kg	4.3	35	360	65	0.00173	U	0.00175	U	0.00182	U	0.00168	U	0.0017	U	0.00165	U	0.00194	U	0.00165	U	0.00206	U	0.00173	U	0.00168	U	0.00161	U	0.00161	U
Endosulfan-II	33213-65-9	mg/kg	4.3	35	360	44	0.00173	U	0.00175	U	0.00182	U	0.00168	U	0.0017	U	0.00165	U	0.00194	U	0.00165	U	0.00206	U	0.00173	U	0.00168	U	0.00161	U	0.00161	U
Endrin	72-20-8	mg/kg	0.014	5.3	55	0.06	0.000719	U	0.000729	U	0.000756	U	0.000699	U	0.00071	U	0.000688	U	0.000809	U	0.000689	U	0.00086	U	0.000721	U	0.000699	U	0.000671	U	0.000669	U
Endrin aldehyde	7421-93-4	mg/kg	NS	NS	NS	NS	0.00216	U	0.00219	U	0.00227	U	0.0021	U	0.00213	U	0.00206	U	0.00243	U	0.00207	U	0.00258	U	0.00216	U	0.0021	U	0.00201	U	0.00201	U
Endrin ketone	53494-70-5	mg/kg	NS	NS	NS	NS	0.00173	U	0.00175	U	0.00182	U	0.00168	U	0.0017	U	0.00165	U	0.00194	U	0.00165	U	0.00206	U	0.00173	U	0.00168	U	0.00161	U	0.00161	U
gamma-BHC (Lindane)	58-89-9	mg/kg	0.025	0.21	0.21	0.05	0.000719	U	0.000729	U	0.000756	U	0.000699	U	0.00071	U	0.000688	U	0.000809	U	0.000689	U	0.00086	U	0.000721	U	0.000699	U	0.000671	U	0.000669	U
gamma-Chlordane	5103-74-2	mg/kg	NS	NS	NS	NS	0.00216	U	0.00219	U	0.00227	U	0.0021	U	0.00213	U	0.00206	U	0.00243	U	0.00207	U	0.00258	U	0.00216	U	0.0021	U	0.00201	U	0.00201	U
Heptachlor	76-44-8	mg/kg	0.013	0.53	5.1	0.38	0.000863	U	0.000875	U	0.000908	U	0.000839	U	0.000852	U	0.000826	U	0.000971	U	0.000827	U	0.00103	U	0.000865	U	0.000838	U	0.000806	U	0.000803	U
Heptachlor epoxide	1024-57-3	mg/kg	NS	NS	NS	NS	0.00324	U	0.00328	U	0.0034	U	0.00314	U	0.0032	U	0.0031	U	0.00364	U	0.0031	U	0.00387	U	0.00324	U	0.00314	U	0.00302	U	0.00301	U
Methoxychlor	72-43-5	mg/kg	NS	NS	NS	NS	0.00324	U	0.00328	U	0.0034	U	0.00314	U	0.0032	U	0.0031	U	0.00364	U	0.0031	U	0.00387	U	0.00324	U	0.00314	U	0.00302	U	0.00301	U
Toxaphene	8001-35-2	mg/kg	NS	NS	NS	NS	0.0324	U	0.0328	U	0.034	U	0.0314	U	0.032	U	0.031	U	0.0364	U	0.031	U	0.0387	U	0.0324	U	0.0314	U	0.0302	U	0.0301	U

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs
Concentration Exceeds NYSDEC RRUSCOs
Concentration Exceeds NYSDEC UUSCOs
Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

SESI CONSULTING ENGINEERS

REMEDIAL INVESTIGATION REPORT

TABLE 5.3
SUMMARY OF SOIL SAMPLING RESULTS—PESTICIDES

26-28, 40, 60 East Post Road
223-225 Dr. MLK Jr. Blvd.
and Brookfield Street
White Plains, NY

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-69 (8.75-9.75)		SB-70 (3.5-4.5)		SB-70 (9-10)		SB-71 (1-2)		SB-71 (8-9)		SB-71(2.0-2.5)		SB-71(8.5-9.0)		SB-72(2.0-2.5)		SB-72(5.5-6.0)		SB-73(1.5-2.0)		SB-73(8.0-8.5)		SB-73(12.5-13)		SB-74 (2.5-3.0)	
LAB SAMPLE ID:							L2551038-04		L2551038-05		L2551038-06		L2551039-04		L2551039-05		JE18375-1		JE18375-2		JE18375-8		JE18375-9		JE18375-3		JE18375-4		JE18375-5		JE18488-9	
SAMPLE DATE:							8/13/2025		8/13/2025		8/13/2025		8/13/2025		8/13/2025		9/4/2025		9/4/2025		9/4/2025		9/4/2025		9/4/2025		9/4/2025		9/4/2025		9/5/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PESTICIDES (SW846 8081B)																																
4,4'-DDD	72-54-8	mg/kg	0.0033	5	33	14	0.0017	U	0.00159	U	0.00178	U	0.00491	IP	0.00171	U	0.00067	U	0.00066	U	0.0007	U	0.00064	U	0.00077	U	0.00071	U	0.00064	U	0.00065	U
4,4'-DDE	72-55-9	mg/kg	0.0033	3.4	22	9.3	0.0017	U	0.00159	U	0.00178	U	0.179		0.00171	U	0.00067	U	0.00066	U	0.0007	U	0.00064	U	0.00077	U	0.00071	U	0.00064	U	0.00065	U
4,4'-DDT	50-29-3	mg/kg	0.0033	3.8	27	135	0.0017	U	0.00159	U	0.00178	U	0.283		0.00171	U	0.00067	U	0.00066	U	0.0007	U	0.00064	U	0.00077	U	0.00071	U	0.00064	U	0.00065	U
Aldrin	309-00-2	mg/kg	0.0048	0.044	0.33	0.19	0.0017	U	0.00159	U	0.00178	U	0.00176	U	0.00171	U	0.00067	U	0.00066	U	0.0007	U	0.00064	U	0.00077	U	0.00071	U	0.00064	U	0.00065	U
alpha-BHC	319-84-6	mg/kg	0.02	0.18	1.2	0.02	0.00071	U	0.000663	U	0.000741	U	0.000735	U	0.000713	U	0.00067	U	0.00066	U	0.0007	U	0.00064	U	0.00077	U	0.00071	U	0.00064	U	0.00065	U
alpha-Chlordane	5103-71-9	mg/kg	0.014	0.65	8.2	4.5	0.00213	U	0.00199	U	0.00222	U	0.0022	U	0.00214	U	0.00067	U	0.00066	U	0.0007	U	0.00064	U	0.00077	U	0.00071	U	0.00064	U	0.00065	U
Beta-BHC	319-85-7	mg/kg	0.021	0.18	1.8	0.09	0.0017	U	0.00159	U	0.00178	U	0.00176	U	0.00171	U	-		-		-		-		-		-		-		-	
Chlordane	57-74-9	mg/kg	NS	NS	NS	NS	0.0142	U	0.0133	U	0.0148	U	0.0147	U	0.0143	U	-		-		-		-		-		-		-		-	
delta-BHC	319-86-8	mg/kg	0.04	100	500	0.1	0.0017	U	0.00159	U	0.00178	U	0.00176	U	0.00171	U	0.00067	U	0.00066	U	0.0007	U	0.00064	U	0.00077	U	0.00071	U	0.00064	U	0.00065	U
Dieldrin	60-57-1	mg/kg	0.005	0.075	0.48	0.1	0.00106	U	0.000994	U	0.00111	U	0.0011	U	0.00107	U	0.00067	U	0.00066	U	0.0007	U	0.00064	U	0.00077	U	0.00071	U	0.00064	U	0.00065	U
Endosulfan sulfate	1031-07-8	mg/kg	4.3	35	360	47	0.00071	U	0.000663	U	0.000741	U	0.000735	U	0.000713	U	0.00067	U	0.00066	U	0.0007	U	0.00064	U	0.00077	U	0.00071	U	0.00064	U	0.00065	U
Endosulfan-I	959-98-8	mg/kg	4.3	35	360	65	0.0017	U	0.00159	U	0.00178	U	0.00176	U	0.00171	U	0.00067	U	0.00066	U	0.0007	U	0.00064	U	0.00077	U	0.00071	U	0.00064	U	0.00065	U
Endosulfan-II	33213-65-9	mg/kg	4.3	35	360	44	0.0017	U	0.00159	U	0.00178	U	0.00176	U	0.00171	U	0.00067	U	0.00066	U	0.0007	U	0.00064	U	0.00077	U	0.00071	U	0.00064	U	0.00065	U
Endrin	72-20-8	mg/kg	0.014	5.3	55	0.06	0.00071	U	0.000663	U	0.000741	U	0.000735	U	0.000713	U	0.00067	U	0.00066	U	0.0007	U	0.00064	U	0.00077	U	0.00071	U	0.00064	U	0.00065	U
Endrin aldehyde	7421-93-4	mg/kg	NS	NS	NS	NS	0.00213	U	0.00199	U	0.00222	U	0.0022	U	0.00214	U	0.00067	U	0.00066	U	0.0007	U	0.00064	U	0.00077	U	0.00071	U	0.00064	U	0.00065	U
Endrin ketone	53494-70-5	mg/kg	NS	NS	NS	NS	0.0017	U	0.00159	U	0.00178	U	0.00176	U	0.00171	U	0.00067	U	0.00066	U	0.0007	U	0.00064	U	0.00077	U	0.00071	U	0.00064	U	0.00065	U
gamma-BHC (Lindane)	58-89-9	mg/kg	0.025	0.21	0.21	0.05	0.00071	U	0.000663	U	0.000741	U	0.000735	U	0.000713	U	0.00067	U	0.00066	U	0.0007	U	0.00064	U	0.00077	U	0.00071	U	0.00064	U	0.00065	U
gamma-Chlordane	5103-74-2	mg/kg	NS	NS	NS	NS	0.00213	U	0.00199	U	0.00222	U	0.0022	U	0.00214	U	0.00067	U	0.00066	U	0.0007	U	0.00064	U	0.00077	U	0.00071	U	0.00064	U	0.00065	U
Heptachlor	76-44-8	mg/kg	0.013	0.53	5.1	0.38	0.000852	U	0.000796	U	0.000889	U	0.000882	U	0.000856	U	0.00067	U	0.00066	U	0.0007	U	0.00064	U	0.00077	U	0.00071	U	0.00064	U	0.00065	U
Heptachlor epoxide	1024-57-3	mg/kg	NS	NS	NS	NS	0.0032	U	0.00298	U	0.00333	U	0.00331	U	0.00321	U	0.00067	U	0.00066	U	0.0007	U	0.00064	U	0.00077	U	0.00071	U	0.00064	U	0.00065	U
Methoxychlor	72-43-5	mg/kg	NS	NS	NS	NS	0.0032	U	0.00298	U	0.00333	U	0.00331	U	0.00321	U	0.0013	U	0.0013	U	0.0014	U	0.0013	U	0.0015	U	0.0014	U	0.0013	U	0.0013	U
Toxaphene	8001-35-2	mg/kg	NS	NS	NS	NS	0.032	U	0.0298	U	0.0333	U	0.0331	U	0.0321	U	0.017	U	0.017	U	0.018	U	0.016	U	0.019	U	0.018	U	0.016	U	0.016	U

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-74 (6.5-7.0)		SB-74 (13.5-14.0)		SB-74 (16.5-17.0)		SB-75 (3.0-3.5)		SB-75 (6.5-7.0)		SB-75 (12.0-12.5)		SB-75 (18.0-18.5)		SB-76 (2.0-2.5)		SB-76 (5.5-6.0)		SB-76 (12.5-13.0)		SB-76 (17.5-18.0)		SB-77(2.0-2.5)		SB-77(9.0-9.5)	
LAB SAMPLE ID:							JE18488-10		JE18488-11		JE18488-12		JE18488-5		JE18488-6		JE18488-7		JE18488-8		JE18488-1		JE18488-2		JE18488-3		JE18488-4		JE18629-1		JE18629-2	
SAMPLE DATE:							9/5/2025		9/5/2025		9/5/2025		9/5/2025		9/5/2025		9/5/2025		9/5/2025		9/5/2025		9/5/2025		9/5/2025		9/5/2025		9/8/2025		9/8/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PESTICIDES (SW846 8081B)																																
4,4'-DDD	72-54-8	mg/kg	0.0033	5	33	14	0.00068	U	0.00071	U	0.00066	U	0.00069	U	0.00074	U	0.00067	U	0.00071	U	0.00071	U	0.00071	U	0.00067	U	0.00065	U	0.00071	U	0.00068	U
4,4'-DDE	72-55-9	mg/kg	0.0033	3.4	22	9.3	0.00068	U	0.00071	U	0.00066	U	0.0034		0.00074	U	0.00067	U	0.00071	U	0.00071	U	0.00071	U	0.00067	U	0.00065	U	0.00071	U	0.00068	U
4,4'-DDT	50-29-3	mg/kg	0.0033	3.8	27	135	0.00068	U	0.00071	U	0.00066	U	0.0028		0.00074	U	0.00067	U	0.00071	U	0.0011		0.00071	U	0.00067	U	0.0016		0.00071	U	0.00068	U
Aldrin	309-00-2	mg/kg	0.0048	0.044	0.33	0.19	0.00068	U	0.00071	U	0.00066	U	0.00069	U	0.00074	U	0.00067	U	0.00071	U	0.00071	U	0.00071	U	0.00067	U	0.00065	U	0.00071	U	0.00068	U
alpha-BHC	319-84-6	mg/kg	0.02	0.18	1.2	0.02	0.00068	U	0.00071	U	0.00066	U	0.00069	U	0.00074	U	0.00067	U	0.00071	U	0.00071	U	0.00071	U	0.00067	U	0.00065	U	0.00071	U	0.00068	U
alpha-Chlordane	5103-71-9	mg/kg	0.014	0.65	8.2	4.5	0.00068	U	0.00071	U	0.00066	U	0.00069	U	0.00074	U	0.00067	U	0.00071	U	0.00071	U	0.00071	U	0.00067	U	0.00065	U	0.00071	U	0.00068	U
Beta-BHC	319-85-7	mg/kg	0.021	0.18	1.8	0.09	-		-		-		-		-		-		-		-		-		-		-		-		-	
Chlordane	57-74-9	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-	
delta-BHC	319-86-8	mg/kg	0.04	100	500	0.1	0.00068	U	0.00071	U	0.00066	U	0.00069	U	0.00074	U	0.00067	U	0.00071	U	0.00071	U	0.00071	U	0.00067	U	0.00065	U	0.00071	U	0.00068	U
Dieldrin	60-57-1	mg/kg	0.005	0.075	0.48	0.1	0.00068	U	0.00071	U	0.00066	U	0.00069	U	0.00074	U	0.00067	U	0.00071	U	0.00071	U	0.00071	U	0.00067	U	0.00065	U	0.00071	U	0.00068	U
Endosulfan sulfate	1031-07-8	mg/kg	4.3	35	360	47	0.00068	U	0.00071	U	0.00066	U	0.00069	U	0.00074	U	0.00067	U	0.00071	U	0.00071	U	0.00071	U	0.00067	U	0.00065	U	0.00071	U	0.00068	U
Endosulfan-I	959-98-8	mg/kg	4.3	35	360	65	0.00068	U	0.00071	U	0.00066	U	0.00069	U	0.00074	U	0.00067	U	0.00071	U	0.00071	U	0.00071	U	0.00067	U	0.00065	U	0.00071	U	0.00068	U
Endosulfan-II	33213-65-9	mg/kg	4.3	35	360	44	0.00068	U	0.00071	U	0.00066	U	0.00069	U	0.00074	U	0.00067	U	0.00071	U	0.00071	U	0.00071	U	0.00067	U	0.00065	U	0.00071	U	0.00068	U
Endrin	72-20-8	mg/kg	0.014	5.3	55	0.06	0.00068	U	0.00071	U	0.00066	U	0.00069	U	0.00074	U	0.00067	U	0.00071	U	0.00071	U	0.00071	U	0.00067	U	0.00065	U	0.00071	U	0.00068	U
Endrin aldehyde	7421-93-4	mg/kg	NS	NS	NS	NS	0.00068	U	0.00071	U	0.00066	U	0.00069	U	0.00074	U	0.00067	U	0.00071	U	0.00071	U	0.00071	U	0.00067	U	0.00065	U	0.00071	U	0.00068	U
Endrin ketone	53494-70-5	mg/kg	NS	NS	NS	NS	0.00068	U	0.00071	U	0.00066	U	0.00069	U	0.00074	U	0.00067	U	0.00071	U	0.00071	U	0.00071	U	0.00067	U	0.00065	U	0.00071	U	0.00068	U
gamma-BHC (Lindane)	58-89-9	mg/kg	0.025	0.21	0.21	0.05	0.00068	U	0.00071	U	0.00066	U	0.00069	U	0.00074	U	0.00067	U	0.00071	U	0.00071	U	0.00071	U	0.00067	U	0.00065	U	0.00071	U	0.00068	U
gamma-Chlordane	5103-74-2	mg/kg	NS	NS	NS	NS	0.00068	U	0.00071	U	0.00066	U	0.00035	J	0.00074	U	0.00067	U	0.00071	U	0.00071	U	0.00071	U	0.00067	U	0.00065	U	0.00071	U	0.00068	U
Heptachlor	76-44-8	mg/kg	0.013	0.53	5.1	0.38	0.00068	U	0.00071	U	0.00066	U	0.00069	U	0.00074	U	0.00067	U	0.00071	U	0.00071	U	0.00071	U	0.00067	U	0.00065	U	0.00071	U	0.00068	U
Heptachlor epoxide	1024-57-3	mg/kg	NS	NS	NS	NS	0.00068	U	0.00071	U	0.00066	U	0.00069	U	0.00074	U	0.00067	U	0.00071	U	0.00071	U	0.00071	U	0.00067	U	0.00065	U	0.00071	U	0.00068	U
Methoxychlor	72-43-5	mg/kg	NS	NS	NS	NS	0.0014	U	0.0014	U	0.0013	U	0.0014	U	0.0015	U	0.0013	U	0.0014	U	0.0014	U	0.0014	U	0.0013	U	0.0013	U	0.0014	U	0.0014	U
Toxaphene	8001-35-2	mg/kg	NS	NS	NS	NS	0.017	U	0.018	U	0.016	U	0.017	U	0.018	U	0.017	U	0.018	U	0.018	U	0.018	U	0.017	U	0.016	U	0.018	U	0.017	U

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs
Concentration Exceeds NYSDEC RRUSCOs
Concentration Exceeds NYSDEC UUSCOs
Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

SESI
CONSULTING ENGINEERS

REMEDIAL INVESTIGATION REPORT

TABLE 5.3
SUMMARY OF SOIL SAMPLING RESULTS—PESTICIDES

26-28, 40, 60 East Post Road
223-225 Dr. MLK Jr. Blvd.
and Brookfield Street
White Plains, NY

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-77(12.5-13)		SB-78(2.5-3.0)		SB-78(6.5-7.0)		SB-79(2.5-3)		SB-79(7.5-8.0)		SB-79(13.5-14.0)		SB-80(4.0-4.5)		SB-80(8.5-9.0)		SB-80(12-12.5)		SB-81(2.5-3.0)		SB-81(6.5-7.0)		SB-82(3.5-4.0)		SB-82(7.5-8.0)	
LAB SAMPLE ID:							JE18629-3		JE18375-6		JE18375-7		JE18629-7		JE18629-8		JE18629-9		JE18629-4		JE18629-5		JE18629-6		JE18698-1		JE18698-2		JE18698-3		JE18698-4	
SAMPLE DATE:							9/8/2025		9/4/2025		9/4/2025		9/8/2025		9/8/2025		9/8/2025		9/8/2025		9/8/2025		9/8/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PESTICIDES (SW846 8081B)																																
4,4'-DDD	72-54-8	mg/kg	0.0033	5	33	14	0.00076	U	0.00069	U	0.00067	U	0.00064	U	0.00072	U	0.00065	U	0.00071	U	0.00071	U	0.00066	U	0.00069	U	0.00071	U	0.0007	U	0.0007	U
4,4'-DDE	72-55-9	mg/kg	0.0033	3.4	22	9.3	0.00076	U	0.00069	U	0.00067	U	0.00064	U	0.00072	U	0.00065	U	0.00071	U	0.00071	U	0.00066	U	0.00069	U	0.00071	U	0.0007	U	0.0007	U
4,4'-DDT	50-29-3	mg/kg	0.0033	3.8	27	135	0.00076	U	0.00069	U	0.00067	U	0.0031		0.00072	U	0.0011		0.0113		0.00071	U	0.00066	U	0.00069	U	0.00071	U	0.0007	U	0.0007	U
Aldrin	309-00-2	mg/kg	0.0048	0.044	0.33	0.19	0.00076	U	0.00069	U	0.00067	U	0.00064	U	0.00072	U	0.00065	U	0.00071	U	0.00071	U	0.00066	U	0.00069	U	0.00071	U	0.0007	U	0.0007	U
alpha-BHC	319-84-6	mg/kg	0.02	0.18	1.2	0.02	0.00076	U	0.00069	U	0.00067	U	0.00064	U	0.00072	U	0.00065	U	0.00071	U	0.00071	U	0.00066	U	0.00069	U	0.00071	U	0.0007	U	0.0007	U
alpha-Chlordane	5103-71-9	mg/kg	0.014	0.65	8.2	4.5	0.00076	U	0.00069	U	0.00067	U	0.0015		0.00072	U	0.00065	U	0.00071	U	0.00071	U	0.00066	U	0.00069	U	0.00071	U	0.0007	U	0.0007	U
Beta-BHC	319-85-7	mg/kg	0.021	0.18	1.8	0.09	-		-		-		-		-		-		-		-		-		-		-		-		-	
Chlordane	57-74-9	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-	
delta-BHC	319-86-8	mg/kg	0.04	100	500	0.1	0.00076	U	0.00069	U	0.00067	U	0.00064	U	0.00072	U	0.00065	U	0.00071	U	0.00082		0.00066	U	0.00069	U	0.00071	U	0.0007	U	0.0007	U
Dieldrin	60-57-1	mg/kg	0.005	0.075	0.48	0.1	0.00076	U	0.00069	U	0.00067	U	0.0015		0.00072	U	0.00065	U	0.0008		0.00071	U	0.00066	U	0.00069	U	0.00071	U	0.0007	U	0.0007	U
Endosulfan sulfate	1031-07-8	mg/kg	4.3	35	360	47	0.00076	U	0.00069	U	0.00067	U	0.00064	U	0.00072	U	0.00065	U	0.00071	U	0.00071	U	0.00066	U	0.00069	U	0.00071	U	0.0007	U	0.0007	U
Endosulfan-I	959-98-8	mg/kg	4.3	35	360	65	0.00076	U	0.00069	U	0.00067	U	0.00064	U	0.00072	U	0.00065	U	0.00071	U	0.00071	U	0.00066	U	0.00069	U	0.00071	U	0.0007	U	0.0007	U
Endosulfan-II	33213-65-9	mg/kg	4.3	35	360	44	0.00076	U	0.00069	U	0.00067	U	0.00064	U	0.00072	U	0.00065	U	0.00071	U	0.00071	U	0.00066	U	0.00069	U	0.00071	U	0.0007	U	0.0007	U
Endrin	72-20-8	mg/kg	0.014	5.3	55	0.06	0.00076	U	0.00069	U	0.00067	U	0.00064	U	0.00072	U	0.00065	U	0.00071	U	0.00071	U	0.00066	U	0.00069	U	0.00071	U	0.0007	U	0.0007	U
Endrin aldehyde	7421-93-4	mg/kg	NS	NS	NS	NS	0.00076	U	0.00069	U	0.00067	U	0.00064	U	0.00072	U	0.00065	U	0.00071	U	0.00071	U	0.00066	U	0.00069	U	0.00071	U	0.0007	U	0.0007	U
Endrin ketone	53494-70-5	mg/kg	NS	NS	NS	NS	0.00076	U	0.00069	U	0.00067	U	0.00064	U	0.00072	U	0.00065	U	0.00071	U	0.00071	U	0.00066	U	0.00069	U	0.00071	U	0.0007	U	0.0007	U
gamma-BHC (Lindane)	58-89-9	mg/kg	0.025	0.21	0.21	0.05	0.00076	U	0.00069	U	0.00067	U	0.00065		0.00072	U	0.00065	U	0.0015		0.00071	U	0.00066	U	0.00069	U	0.00071	U	0.0007	U	0.0007	U
gamma-Chlordane	5103-74-2	mg/kg	NS	NS	NS	NS	0.00076	U	0.00069	U	0.00067	U	0.00065		0.00072	U	0.00065	U	0.0027		0.00071	U	0.00066	U	0.00069	U	0.00071	U	0.0007	U	0.0007	U
Heptachlor	76-44-8	mg/kg	0.013	0.53	5.1	0.38	0.00076	U	0.00069	U	0.00067	U	0.00064	U	0.00072	U	0.00065	U	0.00071	U	0.00071	U	0.00066	U	0.00069	U	0.00071	U	0.0007	U	0.0007	U
Heptachlor epoxide	1024-57-3	mg/kg	NS	NS	NS	NS	0.00076	U	0.00069	U	0.00067	U	0.00064	U	0.00072	U	0.00053	J	0.00071	U	0.00071	U	0.00066	U	0.00069	U	0.00071	U	0.0007	U	0.0007	U
Methoxychlor	72-43-5	mg/kg	NS	NS	NS	NS	0.0015	U	0.0014	U	0.0013	U	0.0013	U	0.0014	U	0.0013	U	0.0014	U	0.0014	U	0.0013	U	0.0014	U	0.0014	U	0.0014	U	0.0014	U
Toxaphene	8001-35-2	mg/kg	NS	NS	NS	NS	0.019	U	0.017	U	0.017	U	0.016	U	0.018	U	0.016	U	0.018	U	0.018	U	0.017	U	0.017	U	0.018	U	0.017	U	0.018	U

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-83(3-3.5)		SB-83(6-6.5)		SB-83(13.5-14)		SB-84(2.5-3.0)		SB-84(8-8.5)		SB-84(12.5-13.0)		SB-85(4.5-5.0)		SB-85(7-7.5)		SB-85(11-11.5)		SB-85(16.5-17.0)		SB-86(4-4.5)		SB-86(6.5-7.0)		SB-87(3-3.5)	
LAB SAMPLE ID:							JE18698-5		JE18698-6		JE18698-7		JE18698-8		JE18698-9		JE18698-10		JE18698-11		JE18698-12		JE18698-13		JE18698-14		JE18698-15		JE18698-16		JE18698-17	
SAMPLE DATE:							9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PESTICIDES (SW846 8081B)																																
4,4'-DDD	72-54-8	mg/kg	0.0033	5	33	14	0.00064	U	0.00067	U	0.00072	U	0.00071	U	0.00066	U	0.00067	U	0.00072	U	0.00072	U	0.00066	U	0.00065	U	0.00066	U	0.00069	U	0.0007	U
4,4'-DDE	72-55-9	mg/kg	0.0033	3.4	22	9.3	0.00067		0.00067	U	0.00072	U	0.0012		0.00066	U	0.00067	U	0.00072	U	0.00072	U	0.00066	U	0.00065	U	0.00066	U	0.00069	U	0.0007	U
4,4'-DDT	50-29-3	mg/kg	0.0033	3.8	27	135	0.0015		0.00067	U	0.00072	U	0.0019		0.00066	U	0.00067	U	0.00072	U	0.00072	U	0.00066	U	0.00065	U	0.00066	U	0.00069	U	0.0007	U
Aldrin	309-00-2	mg/kg	0.0048	0.044	0.33	0.19	0.00064	U	0.00067	U	0.00072	U	0.00071	U	0.00066	U	0.00067	U	0.00072	U	0.00072	U	0.00066	U	0.00065	U	0.00066	U	0.00069	U	0.0007	U
alpha-BHC	319-84-6	mg/kg	0.02	0.18	1.2	0.02	0.00064	U	0.00067	U	0.00072	U	0.00071	U	0.00066	U	0.00067	U	0.00072	U	0.00072	U	0.00066	U	0.00065	U	0.00066	U	0.00069	U	0.0007	U
alpha-Chlordane	5103-71-9	mg/kg	0.014	0.65	8.2	4.5	0.00064	U	0.00067	U	0.00072	U	0.00071	U	0.00066	U	0.00067	U	0.00072	U	0.00072	U	0.00066	U	0.00065	U	0.00066	U	0.00069	U	0.0007	U
Beta-BHC	319-85-7	mg/kg	0.021	0.18	1.8	0.09	-		-		-		-		-		-		-		-		-		-		-		-		-	
Chlordane	57-74-9	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-	
delta-BHC	319-86-8	mg/kg	0.04	100	500	0.1	0.00064	U	0.00067	U	0.00072	U	0.00071	U	0.00066	U	0.00067	U	0.00072	U	0.00072	U	0.00066	U	0.00065	U	0.00066	U	0.00069	U	0.0007	U
Dieldrin	60-57-1	mg/kg	0.005	0.075	0.48	0.1	0.00064	U	0.00067	U	0.00072	U	0.00071	U	0.00066	U	0.00067	U	0.00072	U	0.00072	U	0.00066	U	0.00065	U	0.00066	U	0.00069	U	0.0007	U
Endosulfan sulfate	1031-07-8	mg/kg	4.3	35	360	47	0.00064	U	0.00067	U	0.00072	U	0.00071	U	0.00066	U	0.00067	U	0.00072	U	0.00072	U	0.00066	U	0.00065	U	0.00066	U	0.00069	U	0.0007	U
Endosulfan-I	959-98-8	mg/kg	4.3	35	360	65	0.00064	U	0.00067	U	0.00072	U	0.00071	U	0.00066	U	0.00067	U	0.00072	U	0.00072	U	0.00066	U	0.00065	U	0.00066	U	0.00069	U	0.0007	U
Endosulfan-II	33213-65-9	mg/kg	4.3	35	360	44	0.00064	U	0.00067	U	0.00072	U	0.00071	U	0.00066	U	0.00067	U	0.00072	U	0.00072	U	0.00066	U	0.00065	U	0.00066	U	0.00069	U	0.0007	U
Endrin	72-20-8	mg/kg	0.014	5.3	55	0.06	0.00064	U	0.00067	U	0.00072	U	0.00071	U	0.00066	U	0.00067	U	0.00072	U	0.00072	U	0.00066	U	0.00065	U	0.00066	U	0.00069	U	0.0007	U
Endrin aldehyde	7421-93-4	mg/kg	NS	NS	NS	NS	0.00064	U	0.00067	U	0.00072	U	0.00071	U	0.00066	U	0.00067	U	0.00072	U	0.00072	U	0.00066	U	0.00065	U	0.00066	U	0.00069	U	0.0007	U
Endrin ketone	53494-70-5	mg/kg	NS	NS	NS	NS	0.00064	U	0.00067	U	0.00072	U	0.00071	U	0.00066	U	0.00067	U	0.00072	U	0.00072	U	0.00066	U	0.00065	U	0.00066	U	0.00069	U	0.0007	U
gamma-BHC (Lindane)	58-89-9	mg/kg	0.025	0.21	0.21	0.05	0.00064	U	0.00067	U	0.00072	U	0.00071	U	0.00066	U	0.00067	U	0.00072	U	0.00072	U	0.00066	U	0.00065	U	0.00066	U	0.00069	U	0.0007	U
gamma-Chlordane	5103-74-2	mg/kg	NS	NS	NS	NS	0.00064	U	0.00067	U	0.00072	U	0.00071	U	0.00066	U	0.00067	U	0.00072	U	0.00072	U	0.00066	U	0.00065	U	0.00066	U	0.00069	U	0.0007	U
Heptachlor	76-44-8	mg/kg	0.013	0.53	5.1	0.38	0.00064	U	0.00067	U	0.00072	U	0.00071	U	0.00066	U	0.00067	U	0.00072	U	0.00072	U	0.00066	U	0.00065	U	0.00066	U	0.00069	U	0.0007	U
Heptachlor epoxide	1024-57-3	mg/kg	NS	NS	NS	NS	0.00064	U	0.00067	U	0.00072	U	0.00071	U	0.00066	U	0.00067	U	0.00072	U	0.00072	U	0.00066	U	0.00065	U	0.00066	U	0.00069	U	0.0007	U
Methoxychlor	72-43-5	mg/kg	NS	NS	NS	NS	0.0013	U	0.0013	U	0.0014	U	0.0014	U	0.0013	U	0.0013	U	0.0014	U	0.0014	U	0.0013	U	0.0013	U	0.0013	U	0.0014	U	0.0014	U
Toxaphene	8001-35-2	mg/kg	NS	NS	NS	NS	0.016	U	0.017	U	0.018	U	0.018	U	0.017	U	0.017	U	0.018	U	0.018	U	0.016	U	0.016	U	0.017	U	0.017	U	0.018	U

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs
Concentration Exceeds NYSDEC RRUSCOs
Concentration Exceeds NYSDEC UUSCOs
Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

TABLE 5.3
SUMMARY OF SOIL SAMPLING RESULTS—PESTICIDES

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-87(6-6.5)		SB-87(14-14.5)		SB-88(4.5-5.0)		SB-88(6.5-7.0)		SB-88(13.5-14.0)		SB-89(2.5-3.0)		SB-89(6.5-7.0)		SB-89(12.5-13.0)		SB-90(3.5-4.0)		SB-90(6.5-7.0)		SB-90(13-13.5)		SB-91(3.5-4.0)		SB-91(7.0-7.5)	
LAB SAMPLE ID:							JE18698-18		JE18698-19		JE18798-2		JE18798-3		JE18798-4		JE18798-5		JE18798-6		JE18798-7		JE18796-1		JE18796-2		JE18796-3		JE18796-4		JE18796-5	
SAMPLE DATE:							9/9/2025		9/9/2025		9/10/2025		9/10/2025		9/10/2025		9/10/2025		9/10/2025		9/10/2025		9/10/2025		9/10/2025		9/10/2025		9/10/2025		9/10/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PESTICIDES (SW846 8081B)																																
4,4'-DDD	72-54-8	mg/kg	0.0033	5	33	14	0.00066	U	0.00072	U	0.00081	U	0.00074	U	0.00069	U	0.00081	U	0.00076	U	0.00071	U	0.00069	U	0.00076	U	0.00072	U	0.00071	U	0.00076	U
4,4'-DDE	72-55-9	mg/kg	0.0033	3.4	22	9.3	0.00066	U	0.00072	U	0.00081	U	0.00074	U	0.00069	U	0.00081	U	0.00076	U	0.00071	U	0.00069	U	0.00076	U	0.00072	U	0.00071	U	0.00076	U
4,4'-DDT	50-29-3	mg/kg	0.0033	3.8	27	135	0.00066	U	0.00072	U	0.00081	U	0.00074	U	0.00069	U	0.00081	U	0.00076	U	0.00071	U	0.00069	U	0.00076	U	0.00072	U	0.00071	U	0.00076	U
Aldrin	309-00-2	mg/kg	0.0048	0.044	0.33	0.19	0.00066	U	0.00072	U	0.00081	U	0.00074	U	0.00069	U	0.00081	U	0.00076	U	0.00071	U	0.00069	U	0.00076	U	0.00072	U	0.00071	U	0.00076	U
alpha-BHC	319-84-6	mg/kg	0.02	0.18	1.2	0.02	0.00066	U	0.00072	U	0.00081	U	0.00074	U	0.00069	U	0.00081	U	0.00076	U	0.00071	U	0.00069	U	0.00076	U	0.00072	U	0.00071	U	0.00076	U
alpha-Chlordane	5103-71-9	mg/kg	0.014	0.65	8.2	4.5	0.00066	U	0.00072	U	0.00081	U	0.00074	U	0.00069	U	0.00081	U	0.00076	U	0.00071	U	0.00069	U	0.00076	U	0.00072	U	0.00071	U	0.00076	U
Beta-BHC	319-85-7	mg/kg	0.021	0.18	1.8	0.09	-		-		-		-		-		-		-		-		-		-		-		-		-	
Chlordane	57-74-9	mg/kg	NS	NS	NS	NS	-		-		-		-		-		-		-		-		-		-		-		-		-	
delta-BHC	319-86-8	mg/kg	0.04	100	500	0.1	0.00066	U	0.00072	U	0.00081	U	0.00074	U	0.00069	U	0.00081	U	0.00076	U	0.00071	U	0.00069	U	0.00076	U	0.00072	U	0.00071	U	0.00076	U
Dieldrin	60-57-1	mg/kg	0.005	0.075	0.48	0.1	0.00066	U	0.00072	U	0.00081	U	0.00074	U	0.00069	U	0.00081	U	0.00076	U	0.00071	U	0.00069	U	0.00076	U	0.00072	U	0.00071	U	0.00076	U
Endosulfan sulfate	1031-07-8	mg/kg	4.3	35	360	47	0.00066	U	0.00072	U	0.00081	U	0.00074	U	0.00069	U	0.00081	U	0.00076	U	0.00071	U	0.00069	U	0.00076	U	0.00072	U	0.00071	U	0.00076	U
Endosulfan-I	959-98-8	mg/kg	4.3	35	360	65	0.00066	U	0.00072	U	0.00081	U	0.00074	U	0.00069	U	0.00081	U	0.00076	U	0.00071	U	0.00069	U	0.00076	U	0.00072	U	0.00071	U	0.00076	U
Endosulfan-II	33213-65-9	mg/kg	4.3	35	360	44	0.00066	U	0.00072	U	0.00081	U	0.00074	U	0.00069	U	0.00081	U	0.00076	U	0.00071	U	0.00069	U	0.00076	U	0.00072	U	0.00071	U	0.00076	U
Endrin	72-20-8	mg/kg	0.014	5.3	55	0.06	0.00066	U	0.00072	U	0.00081	U	0.00074	U	0.00069	U	0.00081	U	0.00076	U	0.00071	U	0.00069	U	0.00076	U	0.00072	U	0.00071	U	0.00076	U
Endrin aldehyde	7421-93-4	mg/kg	NS	NS	NS	NS	0.00066	U	0.00072	U	0.00081	U	0.00074	U	0.00069	U	0.00081	U	0.00076	U	0.00071	U	0.00069	U	0.00076	U	0.00072	U	0.00071	U	0.00076	U
Endrin ketone	53494-70-5	mg/kg	NS	NS	NS	NS	0.00066	U	0.00072	U	0.00081	U	0.00074	U	0.00069	U	0.00081	U	0.00076	U	0.00071	U	0.00069	U	0.00076	U	0.00072	U	0.00071	U	0.00076	U
gamma-BHC (Lindane)	58-89-9	mg/kg	0.025	0.21	0.21	0.05	0.00066	U	0.00072	U	0.00081	U	0.00074	U	0.00069	U	0.00081	U	0.00076	U	0.00071	U	0.00069	U	0.00076	U	0.00072	U	0.00071	U	0.00076	U
gamma-Chlordane	5103-74-2	mg/kg	NS	NS	NS	NS	0.00066	U	0.00072	U	0.00081	U	0.00074	U	0.00069	U	0.00081	U	0.00076	U	0.00071	U	0.00069	U	0.00076	U	0.00072	U	0.00071	U	0.00076	U
Heptachlor	76-44-8	mg/kg	0.013	0.53	5.1	0.38	0.00066	U	0.00072	U	0.00081	U	0.00074	U	0.00069	U	0.00081	U	0.00076	U	0.00071	U	0.00069	U	0.00076	U	0.00072	U	0.00071	U	0.00076	U
Heptachlor epoxide	1024-57-3	mg/kg	NS	NS	NS	NS	0.00066	U	0.00072	U	0.00081	U	0.00074	U	0.00069	U	0.00081	U	0.00076	U	0.00071	U	0.00069	U	0.00076	U	0.00072	U	0.00071	U	0.00076	U
Methoxychlor	72-43-5	mg/kg	NS	NS	NS	NS	0.0013	U	0.0014	U	0.0016	U	0.0015	U	0.0014	U	0.0016	U	0.0015	U	0.0014	U	0.0014	U	0.0015	U	0.0014	U	0.0014	U	0.0015	U
Toxaphene	8001-35-2	mg/kg	NS	NS	NS	NS	0.016	U	0.018	U	0.02	U	0.019	U	0.017	U	0.02	U	0.019	U	0.018	U	0.017	U	0.019	U	0.018	U	0.018	U	0.019	U

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-92(2.0-2.5)		SB-92(5.5-6.0)	
LAB SAMPLE ID:							JE18796-6		JE18796-7	
SAMPLE DATE:							9/10/2025		9/10/2025	
MATRIX:							SOIL		SOIL	
							Results	Q	Results	Q
PESTICIDES (SW846 8081B)										
4,4'-DDD	72-54-8	mg/kg	0.0033	5	33	14	0.0007	U	0.00072	U
4,4'-DDE	72-55-9	mg/kg	0.0033	3.4	22	9.3	0.0007	U	0.00072	U
4,4'-DDT	50-29-3	mg/kg	0.0033	3.8	27	135	0.0007	U	0.00072	U
Aldrin	309-00-2	mg/kg	0.0048	0.044	0.33	0.19	0.0007	U	0.00072	U
alpha-BHC	319-84-6	mg/kg	0.02	0.18	1.2	0.02	0.0007	U	0.00072	U
alpha-Chlordane	5103-71-9	mg/kg	0.014	0.65	8.2	4.5	0.0007	U	0.00072	U
Beta-BHC	319-85-7	mg/kg	0.021	0.18	1.8	0.09	-		-	
Chlordane	57-74-9	mg/kg	NS	NS	NS	NS	-		-	
delta-BHC	319-86-8	mg/kg	0.04	100	500	0.1	0.0007	U	0.00072	U
Dieldrin	60-57-1	mg/kg	0.005	0.075	0.48	0.1	0.0007	U	0.00072	U
Endosulfan sulfate	1031-07-8	mg/kg	4.3	35	360	47	0.0007	U	0.00072	U
Endosulfan-I	959-98-8	mg/kg	4.3	35	360	65	0.0007	U	0.00072	U
Endosulfan-II	33213-65-9	mg/kg	4.3	35	360	44	0.0007	U	0.00072	U
Endrin	72-20-8	mg/kg	0.014	5.3	55	0.06	0.0007	U	0.00072	U
Endrin aldehyde	7421-93-4	mg/kg	NS	NS	NS	NS	0.0007	U	0.00072	U
Endrin ketone	53494-70-5	mg/kg	NS	NS	NS	NS	0.0007	U	0.00072	U
gamma-BHC (Lindane)	58-89-9	mg/kg	0.025	0.21	0.21	0.05	0.0007	U	0.00072	U
gamma-Chlordane	5103-74-2	mg/kg	NS	NS	NS	NS	0.0007	U	0.00072	U
Heptachlor	76-44-8	mg/kg	0.013	0.53	5.1	0.38	0.0007	U	0.00072	U
Heptachlor epoxide	1024-57-3	mg/kg	NS	NS	NS	NS	0.0007	U	0.00072	U
Methoxychlor	72-43-5	mg/kg	NS	NS	NS	NS	0.0014	U	0.0014	U
Toxaphene	8001-35-2	mg/kg	NS	NS	NS	NS	0.018	U	0.018	U

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs

Concentration Exceeds NYSDEC RRUSCOs

Concentration Exceeds NYSDEC UUSCOs

Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

TABLE 5.4
SUMMARY OF SOIL SAMPLING RESULTS—METALS

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-1 (2.0-2.5)		SB-1 (5.5-6.0)		SB-1 (5.5-6.0)		SB-1 (10.5-11.0)		SB-2 (3.0-3.5)		SB-2 (7.5-8.0)		SB-2 (12.0-12.5)		SB-2 (12.0-12.5)		SB-3 (3.5-4.0)		SB-3 (7.5-8.0)		SB-3 (10.0-10.5)		SB-3 (10.0-10.5)		SB-4 (2.5-3.0)	
LAB SAMPLE ID:							L2543726-10		L2542207-01		L2542974-06		L2543726-11		L2543726-08		L2543726-09		L2542207-02		L2542974-07		L2543856-01		L2543856-02		L2542207-03		L2542974-08		L2543856-03	
SAMPLE DATE:							7/11/2025		7/7/2025		7/9/2025		7/11/2025		7/11/2025		7/11/2025		7/7/2025		7/9/2025		7/14/2025		7/14/2025		7/7/2025		7/9/2025		7/14/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
METALS (SW846 7471B & SW846 6010D)																																
Aluminum	7429-90-5	mg/kg	NS	NS	NS	NS	9440		12600		9160		5920		13300		11700		9990		9990		6340		6310		4620		4020		4240	
Antimony	7440-36-0	mg/kg	NS	NS	NS	NS	4.31	U	4.75	U	4.3	U	4.2	U	4.84	U	4.24	U	4.59	U	4.41	U	4.73	U	4.16	U	4.26	U	4.4	U	4.25	U
Arsenic	7440-38-2	mg/kg	13	16	16	16	2.58		2.83		4.77		1.11		2.8		0.849	U	2.04		3.57		5.71		1.32		0.761	J	6.77		9.19	
Barium	7440-39-3	mg/kg	410	410	410	820	83.7		101		108		59.2		98.1		180		92.9		61.2		211		62.6		34.2		23		24.8	
Beryllium	7440-41-7	mg/kg	4.4	43	670	47	0.508		0.448	J	0.244	J	0.273	J	0.784		0.296	J	0.19	J	0.308	J	0.304	J	0.257	J	0.083	J	0.249	J	0.363	J
Cadmium	7440-43-9	mg/kg	2.5	2.5	3.7	7.5	0.275	J	0.386	J	0.835	J	0.839	U	0.173	J	0.169	J	0.267	J	0.247	J	0.946	U	0.831	U	0.12	J	0.376	J	0.849	U
Calcium	7440-70-2	mg/kg	NS	NS	NS	NS	2410		3710		11400		23100		2890		2670		22400		1470		11300		2740		17500		2200		573	
Chromium	7440-47-3	mg/kg	NS	NS	NS	NS	17.2		21.3		20.4		11.5		20		2.13		18.3		13.3		14.3		11.4		9.07		10.9		10.2	
Cobalt	7440-48-4	mg/kg	NS	NS	NS	NS	5.56		6.95		5.83		5.38		7.19		4.61		7.87		5.47		4.73		4.75		4.11		2.96		3.88	
Copper	7440-50-8	mg/kg	50	280	280	1720	22.3		20.8		34.2		16.7		10.5		6.15		23.5		14.7		19.7		15.2		9.87		5.56		8.26	
Iron	7439-89-6	mg/kg	NS	NS	NS	NS	14800		19600		13400		10900		17000		23100		16300		12600		15700		8960		8720		14200		14900	
Lead	7439-92-1	mg/kg	63	400	1000	450	89.3		62.9		114		4.83		11.6		8.38		7.91		22.2		358		5.64		3.27	J	9.32		21.2	
Magnesium	7439-95-4	mg/kg	NS	NS	NS	NS	2530		3700		6380		10400		2970		5500		11600		2590		3190		4360		11300		1070		760	
Manganese	7439-96-5	mg/kg	1600	2000	10000	2000	427		566		460		130		529		182		208		273		275		96.9		254		97.4		107	
Mercury	7439-97-6	mg/kg	0.18	0.3	1.1	0.73	0.105		0.063	J	0.136		0.074	U	0.082	J	0.073	U	0.082	U	0.084	U	0.079		0.077	U	0.073	U	0.084	U	0.08	U
Nickel	7440-02-0	mg/kg	30	320	320	130	7.79		12.4		14.6		10.7		9.82		2.12	U	15.7		10.1		9.02		11.2		8.15		4.78		3.74	
Potassium	7440-09-7	mg/kg	NS	NS	NS	NS	632		1190		1820		2830		498		5370		3840		913		1250		1500		1540		1380		577	
Selenium	7782-49-2	mg/kg	3.9	110	1700	4	1.72	U	0.46	J	0.493	J	1.68	U	1.94	U	1.7	U	0.541	J	0.322	J	1.89	U	1.66	U	1.7	U	1.76	U	1.7	U
Silver	7440-22-4	mg/kg	2	110	1700	8.3	0.431	U	0.475	U	0.43	U	0.42	U	0.484	U	0.424	U	0.459	U	0.441	U	0.473	U	0.416	U	0.426	U	0.44	U	0.425	U
Sodium	7440-23-5	mg/kg	NS	NS	NS	NS	172	U	105	J	154	J	89.9	J	194	U	170	U	163	J	176	U	189	U	166	U	170	U	176	U	170	U
Thallium	7440-28-0	mg/kg	NS	NS	NS	NS	0.857	J	1.9	U	1.72	U	0.832	J	0.946	J	1.21	J	1.84	U	1.76	U	1.89	U	1.66	U	1.7	U	1.76	U	1.7	U
Vanadium	7440-62-2	mg/kg	NS	NS	NS	NS	23.9		32.2		24		15.8		30.1		12.7		27.5		20.9		24.7		14.3		12.6		24.2		27.8	
Zinc	7440-66-6	mg/kg	109	6600	10000	2480	95.3		65.7		107		25.2		36		111		42.2		26.2		232		40.1		18		20.1		30.1	

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-4 (9.0-9.5)		SB-4 (9.0-9.5)		SB-4 (11.0-11.5)		SB-5 (3.0-3.5)		SB-5 (8.5-9.0)		SB-5 (12.5-13.0)		SB-5 (12.5-13.0)		SB-6 (1.0-1.5)		SB-6 (8.0-8.5)		SB-6 (10.5-11.0)		SB-6 (10.5-11.0)		SB-7 (2.5-3.0)		SB-7 (2.5-3.0)	
LAB SAMPLE ID:							L2542207-04		L2542974-09		L2543856-04		L2543856-06		L2543856-07		L2542207-05		L2542974-10		L2543726-12		L2543726-13		L2542207-06		L2542974-11		L2542560-01		L2542974-12	
SAMPLE DATE:							7/7/2025		7/9/2025		7/14/2025		7/14/2025		7/14/2025		7/7/2025		7/9/2025		7/11/2025		7/11/2025		7/7/2025		7/9/2025		7/8/2025		7/9/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
METALS (SW846 7471B & SW846 6010D)																																
Aluminum	7429-90-5	mg/kg	NS	NS	NS	NS	6920		1690		8880		7980		8660		13900		11100		9940		7670		12300		10700		12400		13200	
Antimony	7440-36-0	mg/kg	NS	NS	NS	NS	4.21	U	4.1	U	4.86	U	4.14	U	4.12	U	4.39	U	4.3	U	4.2	U	4.1	U	4.39	U	3.99	U	4.15	U	4.07	U
Arsenic	7440-38-2	mg/kg	13	16	16	16	3.98		5.07		0.789	J	1.3		0.968		0.556	J	3.06		0.864		1.61		1.61		0.839		1.3		1.89	
Barium	7440-39-3	mg/kg	410	410	410	820	36.8		6.04		77.2		114		21.9		149		171		136		52.5		102		135		200		222	
Beryllium	7440-41-7	mg/kg	4.4	43	670	47	0.313	J	0.185	J	0.339	J	0.064	J	0.612		0.235	J	0.43	U	0.528		0.385	J	0.205	J	0.045	J	0.415	U	0.407	U
Cadmium	7440-43-9	mg/kg	2.5	2.5	3.7	7.5	0.381	J	0.146	J	0.973	U	0.828	U	0.824	U	0.455	J	0.456	J	0.138	J	0.137	J	0.459	J	0.504	J	0.722	J	0.575	J
Calcium	7440-70-2	mg/kg	NS	NS	NS	NS	723		129		49800		4450		6870		1880		17700		4120		1410		2280		3630		5790		5230	
Chromium	7440-47-3	mg/kg	NS	NS	NS	NS	15.5		5.86		13.6		38.5		6.06		23.5		46.3		26.3		14.4		20.4		30.4		57.9		61	
Cobalt	7440-48-4	mg/kg	NS	NS	NS	NS	5.11		1.41	J	6.28		6.59		3.95		12.7		8.75		10.8		5.35		8.65		11.4		11		11.2	
Copper	7440-50-8	mg/kg	50	280	280	1720	11.9		1.86		19.6		23.9		7.73		10.9		35.9		36.8		8.85		24.6		41		34.8		33.4	
Iron	7439-89-6	mg/kg	NS	NS	NS	NS	17200		8250		13300		13400		24300		23000		18400		17300		12200		21800		18100		21000		21300	
Lead	7439-92-1	mg/kg	63	400	1000	450	8.04		2.7	J	3.75	J	6.9		1.99	J	6.91		13.6		11		14.2		12.5		9.94		9.93		10.8	
Magnesium	7439-95-4	mg/kg	NS	NS	NS	NS	2280		106		8740		7440		4060		6020		14100		5970		2820		7330		6180		10000		10100	
Manganese	7439-96-5	mg/kg	1600	2000	10000	2000	172		51.9		136		159		280		170		216		166		176		222		180		251		268	
Mercury	7439-97-6	mg/kg	0.18	0.3	1.1	0.73	0.07	U	0.08	U	0.098	U	0.078	U	0.073	U	0.081	U	0.078	U	0.079	U	0.074	U	0.077	U	0.087	U	0.061	J	0.081	U
Nickel	7440-02-0	mg/kg	30	320	320	130	7.79		1.48	J	17.4		25.7		5.07		23.1		28.6		30		9.3		16.5		29.8		36.8		39.3	
Potassium	7440-09-7	mg/kg	NS	NS	NS	NS	1300		182	J	2880		5280		577		7180		6830		6810		1080		4420		6710		8210		9100	
Selenium	7782-49-2	mg/kg	3.9	110	1700	4	1.68	U	1.64	U	1.94	U	1.66	U	1.65	U	1.76	U	1.72	U	1.68	U	1.64	U	1.76	U	0.299	J	1.66	U	1.63	U
Silver	7440-22-4	mg/kg	2	110	1700	8.3	0.421	U	0.41	U	0.486	U	0.414	U	0.412	U	0.439	U	0.43	U	0.42	U	0.41	U	0.439	U	0.399	U	0.415	U	0.407	U
Sodium	7440-23-5	mg/kg	NS	NS	NS	NS	168	U	164	U	354		166	U	165	U	113	J	157	J	107	J	122	J	333		145	J	127	J	161	J
Thallium	7440-28-0	mg/kg	NS	NS	NS	NS	1.68	U	1.64	U	1.94	U	1.66	U	1.65	U	1.76	U	1.72	U	0.949	J	1.64	U	1.76	U	1.6	U	1.66	U	1.63	U
Vanadium	7440-62-2	mg/kg	NS	NS	NS	NS	26.4		14		19.4		30.2		13.4		37.1		43.9		35.2		19.4		31.4		38.3		49.7		52.8	
Zinc	7440-66-6	mg/kg	109	6600	10000	2480	26.7		6.36		36.2		40.3		72.9		67.5		53.2		51.6		33.4		54.8		58.5		69.1		60.4	

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs
Concentration Exceeds NYSDEC RRUSCOs
Concentration Exceeds NYSDEC UUSCOs
Concentration Exceeds

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

SESI CONSULTING ENGINEERS

REMEDIAL INVESTIGATION REPORT

TABLE 5.4
SUMMARY OF SOIL SAMPLING RESULTS—METALS

26-28, 40, 60 East Post Road
223-225 Dr. MLK Jr. Blvd.
and Brookfield Street
White Plains, NY

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-7 (6.0-6.5)		SB-8 (3.5-4.0)		SB-8 (8.0-8.5)		SB-8 (11.0-11.5)		SB-8 (17.5-18.0)		SB-9 (1.5-2.0)		SB-9 (6.0-6.5)		SB-9 (13.0-13.5)		SB-9 (16.0-16.5)		SB-10 (4.0-4.5)		SB-10 (7.0-7.5)		SB-10 (13.5-14.0)		SB-10 (15.5-16.0)	
LAB SAMPLE ID:							L2543856-05		L2544282-04		L2542560-02		L2544282-05		L2544282-06		L2544282-01		L2544282-02		L2542560-03		L2544282-03		L2542560-04		L2544282-07		L2544282-08		L2544282-09	
SAMPLE DATE:							7/14/2025		7/15/2025		7/8/2025		7/15/2025		7/15/2025		7/15/2025		7/15/2025		7/8/2025		7/15/2025		7/8/2025		7/15/2025		7/15/2025		7/15/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
METALS (SW846 7471B & SW846 6010D)																																
Aluminum	7429-90-5	mg/kg	NS	NS	NS	NS	8570		16700		9720		1710		5520		11500		13900		5860		3210		7040		9540		4750		5870	
Antimony	7440-36-0	mg/kg	NS	NS	NS	NS	4.43	U	4.76	U	4.32	U	4.06	U	4.04	U	4.15	U	4.27	U	4.64	U	4.32	U	4.51	U	4.85	U	4.19	U	4.5	U
Arsenic	7440-38-2	mg/kg	13	16	16	16	0.629	J	2.78		1.16		0.445	J	0.776	J	3.53		0.718	J	0.61	J	1.05		3.55		1.86		0.974		1.75	
Barium	7440-39-3	mg/kg	410	410	410	820	90.9		170		40.9		19.5		53.2		46.6		44.4		51		37.2		142		38.5		46.6		58.2	
Beryllium	7440-41-7	mg/kg	4.4	43	670	47	0.351	J	0.545		0.463		0.047	J	0.139	J	0.34	J	0.553		0.464	U	0.091	J	0.144	J	0.288	J	0.125	J	0.202	J
Cadmium	7440-43-9	mg/kg	2.5	2.5	3.7	7.5	0.885	U	0.951	U	0.357	J	0.811	U	0.809	U	0.83	U	0.854	U	0.223	J	0.864	U	0.585	J	0.97	U	0.838	U	0.899	U
Calcium	7440-70-2	mg/kg	NS	NS	NS	NS	1950		1240		854		9990		17700		4310		2580		1830		21300		38300		850		14200		15900	
Chromium	7440-47-3	mg/kg	NS	NS	NS	NS	15.6		20.8		15.2		4.03		13.8		13.7		22.3		17.2		6.67		14.5		14		10.1		11.4	
Cobalt	7440-48-4	mg/kg	NS	NS	NS	NS	8.07		11		6.26		1.54	J	4.45		5.81		5.59		5.06		3.47		5.51		5.62		4.98		5.04	
Copper	7440-50-8	mg/kg	50	280	280	1720	29.5		16.5		20.1		4.5		11.6		17.6		14.4		10.9		9.4		37.1		16.4		21.5		16.5	
Iron	7439-89-6	mg/kg	NS	NS	NS	NS	13200		19600		15400		3330		10100		15000		15500		10400		6580		16400		14400		10100		11300	
Lead	7439-92-1	mg/kg	63	400	1000	450	7.55		9.73		3.88	J	1	J	2.1	J	21.8		5.15		2.25	J	1.87	J	566		4.25	J	1.9	J	4.02	J
Magnesium	7439-95-4	mg/kg	NS	NS	NS	NS	4240		5250		2880		5510		10000		5040		6350		4260		11300		4450		3520		8950		9340	
Manganese	7439-96-5	mg/kg	1600	2000	10000	2000	80.4		1290		354		45.6		160		337		166		217		112		250		368		108		191	
Mercury	7439-97-6	mg/kg	0.18	0.3	1.1	0.73	0.092	U	0.09	U	0.084	U	0.081	U	0.086	U	0.066	J	0.084	U	0.082	U	0.086	U	0.144		0.085	U	0.087	U	0.074	U
Nickel	7440-02-0	mg/kg	30	320	320	130	17.3		15.6		10.8		2.87		9.01		9.39		11		15.3		5.76		13.4		9.73		8.79		10	
Potassium	7440-09-7	mg/kg	NS	NS	NS	NS	4220		1470		1170		654		2570		595		1780		1630		1270		1580		1100		1800		1770	
Selenium	7782-49-2	mg/kg	3.9	110	1700	4	1.77	U	1.9	U	1.73	U	1.62	U	1.62	U	1.66	U	1.71	U	1.86	U	1.73	U	1.8	U	1.94	U	1.68	U	1.8	U
Silver	7440-22-4	mg/kg	2	110	1700	8.3	0.443	U	0.476	U	0.432	U	0.406	U	0.404	U	0.415	U	0.427	U	0.464	U	0.432	U	0.451	U	0.485	U	0.419	U	0.45	U
Sodium	7440-23-5	mg/kg	NS	NS	NS	NS	157	J	219		182		162	U	331		402		332		207		98.3	J	141	J	194	U	127	J	126	J
Thallium	7440-28-0	mg/kg	NS	NS	NS	NS	1.77	U	1.57	J	1.73	U	1.62	U	0.807	J	1.66	U	1.68	J	1.86	U	1.73	U	1.8	U	1.94	U	1.68	U	1.8	U
Vanadium	7440-62-2	mg/kg	NS	NS	NS	NS	22.6		32.8		20.6		4.98		18.8		23.8		28.8		13.4		9.27		23.3		22.5		13.5		15.8	
Zinc	7440-66-6	mg/kg	109	6600	10000	2480	48.3		42.1		26.2		7.53		20		34.2		39		23.2		13.4		144		24.7		21.1		26.6	

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-11 (16.0-16.5)		SB-12 (1.5-2.0)		SB-12 (5.5-6.0)		SB-12 (13.0-13.5)		SB-12 (18.0-18.5)		SB-13 (5.0-5.5)		SB-14 (3.5-4.0)		SB-15 (2.5-3.0)		SB-15 (6.0-6.5)		SB-15 (12.0-12.5)		SB-15 (16.5-17.0)		SB-16 (2.0-2.5)		SB-16 (5.0-5.5)	
LAB SAMPLE ID:							L2542560-05		L2542560-06		L2544282-13		L2544282-14		L2544282-15		L2542974-01		L2542974-02		L2544282-10		L2542974-03		L2544282-11		L2544282-12		L2542974-04		L2543726-04	
SAMPLE DATE:							7/8/2025		7/8/2025		7/15/2025		7/15/2025		7/15/2025		7/9/2025		7/9/2025		7/15/2025		7/9/2025		7/15/2025		7/15/2025		7/9/2025		7/11/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
METALS (SW846 7471B & SW846 6010D)																																
Aluminum	7429-90-5	mg/kg	NS	NS	NS	NS	5540		7010		8760		8480		4600		3240		6620		6880		8590		6660		7270		3890		4240	
Antimony	7440-36-0	mg/kg	NS	NS	NS	NS	4.82	U	4.45	U	4.62	U	4.2	U	4.44	U	4.52	U	4.61	U	4.62	U	4.54	U	4.51	U	4.11	U	4.35	U	4.49	U
Arsenic	7440-38-2	mg/kg	13	16	16	16	1.6		3.61		1.63		6.91		1.1		2.26		4.63		1.79		6.62		1.62		1.48		0.92		0.972	
Barium	7440-39-3	mg/kg	410	410	410	820	31.4		83.4		53.4		98		57.2		31.8		271		64.2		216		50.1		50.9		38.4		45.5	
Beryllium	7440-41-7	mg/kg	4.4	43	670	47	0.118	J	0.209	J	0.23	J	0.213	J	0.131	J	0.113	J	0.16	J	0.231	J	0.29	J	0.212	J	0.223	J	0.076	J	0.23	J
Cadmium	7440-43-9	mg/kg	2.5	2.5	3.7	7.5	0.155	J	0.412	J	0.924	U	0.84	U	0.887	U	0.265	J	0.66	J	0.924	U	1.27		0.902	U	0.821	U	0.143	J	0.898	U
Calcium	7440-70-2	mg/kg	NS	NS	NS	NS	17000		35600		1190		6650		17200		39300		29000		3330		10500		924		513		15200		15000	
Chromium	7440-47-3	mg/kg	NS	NS	NS	NS	14.2		14.1		13.2		28.4		9.9		7.53		13.3		15.9		18.3		8.82		10.8		7.16		8.38	
Cobalt	7440-48-4	mg/kg	NS	NS	NS	NS	4.06		4.75		4.82		6.56		3.66		2.14		3.87		5.83		4.94		5		4.27		3.22		4	
Copper	7440-50-8	mg/kg	50	280	280	1720	14.7		25.2		11.8		30.7		11.3		11.8		24.1		15.6		280		16.1		12.8		9.03		12	
Iron	7439-89-6	mg/kg	NS	NS	NS	NS	12400		18900		11600		30900		8530		5900		10700		13100		13500		11500		11500		7660		8350	
Lead	7439-92-1	mg/kg	63	400	1000	450	76		244		21.6		203		2.32	J	50.2		604		4.23	J	553		3.64	J	2.93	J	1.84	J	2.4	J
Magnesium	7439-95-4	mg/kg	NS	NS	NS	NS	3860		18400		2900		3880		8260		18800		5370		4400		3260		2450		2060		9020		8190	
Manganese	7439-96-5	mg/kg	1600	2000	10000	2000	120		273		369		232		206		112		197		275		294		274		336		120		107	
Mercury	7439-97-6	mg/kg	0.18	0.3	1.1	0.73	0.089	U	0.181		0.316		0.177		0.096	U	0.09	U	0.255		0.095	U	0.134		0.079	U	0.075	U	0.093	U	0.096	U
Nickel	7440-02-0	mg/kg	30	320	320	130	7.78		11.4		9.1		15.3		7.95		5.69		8.7		13.2		12.1		9.34		7.66		6.15		6.99	
Potassium	7440-09-7	mg/kg	NS	NS	NS	NS	1600		1400		878		2310		1850		770		1500		1710		1100		1450		1270		1340		1760	
Selenium	7782-49-2	mg/kg	3.9	110	1700	4	0.524	J	1.78	U	1.85	U	0.546	J	1.77	U	1.81	U	0.441	J	1.85	U	0.417	J	1.8	U	1.64	U	1.74	U	1.8	U
Silver	7440-22-4	mg/kg	2	110	1700	8.3	0.482	U	0.445	U	0.462	U	0.42	U	0.444	U	0.452	U	0.461	U	0.462	U	0.454	U	0.451	U	0.411	U	0.435	U	0.449	U
Sodium	7440-23-5	mg/kg	NS	NS	NS	NS	269		132	J	193		164	J	205		165	J	1010		134	J	232		120	J	96.1	J	379		370	
Thallium	7440-28-0	mg/kg	NS	NS	NS	NS	1.93	U	1.78	U	1.85	U	1	J	1.77	U	1.81	U	1.84	U	1.85	U	1.82	U	1.8	U	1.64	U	1.74	U	1.8	U
Vanadium	7440-62-2	mg/kg	NS	NS	NS	NS	22		18.3		19.3		26.6		13.2		14.1		21.7		17.9		20.5		15.2		16		10.5		12.2	
Zinc	7440-66-6	mg/kg	109	6600	10000	2480	45.7		93.8		29.4		69.3		19.2		91		247		28.5		321		22.8		22.2		17.6		17.2	

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs
Concentration Exceeds NYSDEC RRUSCOs
Concentration Exceeds NYSDEC UUSCOs
Concentration Exceeds

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

SESI CONSULTING ENGINEERS

REMEDIAL INVESTIGATION REPORT

TABLE 5.4
SUMMARY OF SOIL SAMPLING RESULTS—METALS

26-28, 40, 60 East Post Road
223-225 Dr. MLK Jr. Blvd.
and Brookfield Street
White Plains, NY

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-17 (3.0-3.5)		SB-18 (2.0-2.5)		SB-18 (6.5-7.0)		SB-19 (2.5-3.0)		SB-20 (3.0-3.5)		SB-21 (4.0-4.5)		SB-21 (7.0-7.5)		SB-21 (13.0-13.5)		SB-22 (1.0-1.5)		SB-22 (5.5-6.0)		SB-22 (11.5-12.0)		SB-23 (1-1.5)		SB-23 (5.5-6)	
LAB SAMPLE ID:							L2542974-05		L2543250-01		L2543726-05		L2543250-02		L2543250-03		L2543250-04		L2543726-06		L2543726-07		L2543726-01		L2543726-02		L2543726-03		L2547611-04		L2547611-03	
SAMPLE DATE:							7/9/2025		7/10/2025		7/11/2025		7/10/2025		7/10/2025		7/10/2025		7/11/2025		7/11/2025		7/11/2025		7/11/2025		7/11/2025		7/29/2025		7/29/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
METALS (SW846 7471B & SW846 6010D)																																
Aluminum	7429-90-5	mg/kg	NS	NS	NS	NS	3740		3320		4440		4120		3940		3820		4190		3390		8260		4830		4880		11400		11100	
Antimony	7440-36-0	mg/kg	NS	NS	NS	NS	4.21	U	4.74	U	4.21	U	4.29	U	4.33	U	4.03	U	4.19	U	4.04	U	4.23	U	4.33	U	4.88	U	4.58	U	4.39	U
Arsenic	7440-38-2	mg/kg	13	16	16	16	0.951		0.652	J	1.17		0.88		0.984		0.748	J	0.729	J	0.708	J	1.95		1.53		0.904	J	2.7		1.25	
Barium	7440-39-3	mg/kg	410	410	410	820	35.6		40.8		48		50.3		45.2		24.2		43.6		39.7		45.6		36.9		52.6		81.3		55.8	
Beryllium	7440-41-7	mg/kg	4.4	43	670	47	0.111	J	0.087	J	0.223	J	0.081	J	0.097	J	0.072	J	0.204	J	0.162	J	0.406	J	0.275	J	0.256	J	0.214	J	0.629	
Cadmium	7440-43-9	mg/kg	2.5	2.5	3.7	7.5	0.147	J	0.066	J	0.842	U	0.148	J	0.074	J	0.146	J	0.055	J	0.807	U	0.12	J	0.09	J	0.976	U	0.67	J	0.213	J
Calcium	7440-70-2	mg/kg	NS	NS	NS	NS	15100		15100		14800		15600		15900		731		1540		23300		816		807		15400		4340		8310	
Chromium	7440-47-3	mg/kg	NS	NS	NS	NS	7.5		7.88		9.57		10.5		7.9		5.99		7.52		5.83		12.8		9.22		8.77		17.7		22	
Cobalt	7440-48-4	mg/kg	NS	NS	NS	NS	9.05		3.12		4.07		3.91		4.02		3.23		3.44		2.96		5.92		4.75		4.48		8.7		8	
Copper	7440-50-8	mg/kg	50	280	280	1720	9.38		10.5		10.8		13.7		11.8		9.26		16.5		9.31		19.3		13.8		11.7		30.6		22.4	
Iron	7439-89-6	mg/kg	NS	NS	NS	NS	7450		7280		8620		8990		8200		7330		8020		6440		12900		9520		9200		18100		18400	
Lead	7439-92-1	mg/kg	63	400	1000	450	1.95	J	1.99	J	2.44	J	2.24	J	3.06	J	1.45	J	2.3	J	2.1	J	4.7		3.18	J	2.98	J	209		6.24	
Magnesium	7439-95-4	mg/kg	NS	NS	NS	NS	7920		8060		8060		8240		7870		1580		1970		10400		3390		2230		7610		6370		8150	
Manganese	7439-96-5	mg/kg	1600	2000	10000	2000	124		99.3		116		142		167		138		152		117		257		249		128		462		130	
Mercury	7439-97-6	mg/kg	0.18	0.3	1.1	0.73	0.088	U	0.086	U	0.085	U	0.07	U	0.07	U	0.07	U	0.068	U	0.084	U	0.075	U	0.085	U	0.077	U	0.087		0.091	U
Nickel	7440-02-0	mg/kg	30	320	320	130	6.64		5.64		6.68		7.27		6.82		5.06		6.92		5.41		9.68		6.48		7.88		14.3		28.2	
Potassium	7440-09-7	mg/kg	NS	NS	NS	NS	1360		1240		1780		1510		1470		919		1330		1170		1340		1170		2010		1870		348	
Selenium	7782-49-2	mg/kg	3.9	110	1700	4	1.68	U	1.9	U	1.68	U	1.72	U	1.73	U	1.61	U	1.68	U	1.61	U	1.69	U	1.73	U	1.95	U	0.317	J	1.76	U
Silver	7440-22-4	mg/kg	2	110	1700	8.3	0.421	U	0.474	U	0.421	U	0.429	U	0.433	U	0.403	U	0.419	U	0.404	U	0.423	U	0.433	U	0.488	U	0.458	U	0.439	U
Sodium	7440-23-5	mg/kg	NS	NS	NS	NS	318		190	U	282		96.7	J	94.8	J	161	U	170		348		169	U	94	J	419		1770		2770	
Thallium	7440-28-0	mg/kg	NS	NS	NS	NS	1.68	U	1.9	U	1.68	U	1.72	U	1.73	U	1.61	U	1.68	U	1.61	U	1.24	J	1.73	U	1.95	U	1.83	U	1.76	U
Vanadium	7440-62-2	mg/kg	NS	NS	NS	NS	10.4		11		13.1		13.2		10.6		9.22		10.4		8.88		19.1		13.6		12.8		27.7		23.3	
Zinc	7440-66-6	mg/kg	109	6600	10000	2480	15		14		17.6		18.3		17.4		13.5		16.6		14.3		27.9		21.2		21.7		121		28.4	

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-24 (3.5-4)		SB-24 (7-7.5)		SB-25 (4.5-5)		SB-25 (7.5-8)		SB-25 (11-11.5)		SB-26 (4-4.5)		SB-26 (6.5-7)		SB-26 (12-12.5)		SB-27 (3-3.5)		SB-27 (7-7.5)		SB-27 (10-10.5)		SB-28 (1-1.5)		SB-28 (8-8.5)	
LAB SAMPLE ID:							L2547611-08		L2547611-09		L2547611-07		L2547611-05		L2547611-06		L2547764-15		L2547764-16		L2547764-17		L2547764-12		L2547764-14		L2547764-13		L2547764-09		L2547764-10	
SAMPLE DATE:							7/29/2025		7/29/2025		7/29/2025		7/29/2025		7/29/2025		7/30/2025		7/30/2025		7/30/2025		7/30/2025		7/30/2025		7/30/2025		7/30/2025		7/30/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
METALS (SW846 7471B & SW846 6010D)																																
Aluminum	7429-90-5	mg/kg	NS	NS	NS	NS	7540		3140		8300		4770		3460		9640		9530		6770		10400		6350		4260		12000		9430	
Antimony	7440-36-0	mg/kg	NS	NS	NS	NS	4.68	U	4.28	U	4.27	U	4.38	U	4.31	U	4.83	U	4.48	U	4.89	U	4.5	U	4.55	U	4.23	U	4.38	U	4.39	U
Arsenic	7440-38-2	mg/kg	13	16	16	16	3.17		2.77		1.28		0.552	J	0.686	J	1.88		1.56		0.913	J	2.43		2.72		0.762	J	2.91		0.997	
Barium	7440-39-3	mg/kg	410	410	410	820	72.4		41.2		80		40.2		28		94.6		48.5		73.2		117		53.4		39.5		84.7		75.8	
Beryllium	7440-41-7	mg/kg	4.4	43	670	47	0.132	J	0.428	U	0.427	U	0.438	U	0.431	U	0.522		0.307	J	0.233	J	0.473		0.23	J	0.151	J	0.232	J	0.129	J
Cadmium	7440-43-9	mg/kg	2.5	2.5	3.7	7.5	0.935	U	0.856	U	0.062	J	0.877	U	0.862	U	0.26	J	0.092	J	0.099	J	0.377	J	0.194	J	0.113	J	0.164	J	0.08	J
Calcium	7440-70-2	mg/kg	NS	NS	NS	NS	38400		1980		2640		25500		22000		1970		1120		19200		7810		2360		37400		2380		1740	
Chromium	7440-47-3	mg/kg	NS	NS	NS	NS	18.8		2.58		19.1		9.35		8.57		17.6		13.6		14.5		18.5		14.7		9.45		20.4		20.2	
Cobalt	7440-48-4	mg/kg	NS	NS	NS	NS	5.16		2.15		7.26		4.15		3.5		6.36		5.14		6.09		7.19		8.61		4.38		7.35		8.59	
Copper	7440-50-8	mg/kg	50	280	280	1720	20.9		21.5		20.8		16.4		14.3		8.95		14.6		20.9		33.4		18.2		11.1		22.3		25	
Iron	7439-89-6	mg/kg	NS	NS	NS	NS	12600		9680		15800		9040		7300		19800		11600		13200		19200		20300		9640		16300		17500	
Lead	7439-92-1	mg/kg	63	400	1000	450	16.1		1.74	J	3.33	J	2.08	J	1.89	J	9.65		6.9		3.16	J	138		17.2		4.25		29.7		7	
Magnesium	7439-95-4	mg/kg	NS	NS	NS	NS	14700		1080		4720		7540		11000		2940		2710		9450		3820		4510		20400		4260		5180	
Manganese	7439-96-5	mg/kg	1600	2000	10000	2000	200		110		130		126		93		230		153		134		1450		388		273		171		168	
Mercury	7439-97-6	mg/kg	0.18	0.3	1.1	0.73	0.088	U	0.068	U	0.08	U	0.073	U	0.089	U	0.054	J	0.08	U	0.089	U	0.116		0.075	U	0.076	U	0.083	U	0.073	U
Nickel	7440-02-0	mg/kg	30	320	320	130	13		3.26		12.9		8.16		8.42		9.13		10.9		12.4		10.8		12.8		7.76		14.7		16	
Potassium	7440-09-7	mg/kg	NS	NS	NS	NS	2920		937		3520		1670		1360		499		964		3480		1110		1760		1690		1330		3180	
Selenium	7782-49-2	mg/kg	3.9	110	1700	4	1.87	U	1.71	U	1.71	U	1.75	U	1.72	U	0.52	J	1.79	U	1.96	U	1.8	U	1.82	U	1.69	U	0.415	J	1.76	U
Silver	7440-22-4	mg/kg	2	110	1700	8.3	0.468	U	0.428	U	0.427	U	0.438	U	0.431	U	0.483	U	0.448	U	0.489	U	0.45	U	0.455	U	0.423	U	0.438	U	0.439	U
Sodium	7440-23-5	mg/kg	NS	NS	NS	NS	373		189		848		510		187		193	U	179	U	146	J	301		133	J	169	U	175	U	176	U
Thallium	7440-28-0	mg/kg	NS	NS	NS	NS	1.87	U	1.71	U	1.71	U	1.75	U	1.72	U	1.93	U	1.79	U	1.96	U	1.8	U	1.82	U	1.69	U	1.75	U	1.76	U
Vanadium	7440-62-2	mg/kg	NS	NS	NS	NS	21.3		4.39		25.8		12.7		11.8		30		19.3		21.8		29.7		31.1		15.6		28.3		26.3	
Zinc	7440-66-6	mg/kg	109	6600	10000	2480	37.4		32		34.9		18.8		15.8		32.3		22.8		34		161		26.5		17.6		65.1		39.6	

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs
Concentration Exceeds NYSDEC RRUSCOs
Concentration Exceeds NYSDEC UUSCOs
Concentration Exceeds

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

SESI CONSULTING ENGINEERS

REMEDIAL INVESTIGATION REPORT

TABLE 5.4
SUMMARY OF SOIL SAMPLING RESULTS—METALS

26-28, 40, 60 East Post Road
223-225 Dr. MLK Jr. Blvd.
and Brookfield Street
White Plains, NY

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-28 (10-10.5)		SB-29 (2.5-3)		SB-29 (8-8.5)		SB-29 (10.5-11)		SB-30 (2.5-3)		SB-30 (7.5-8)		SB-30 (10.5-11)		SB-31 (4.5-5.0)		SB-31 (9.5-10)		SB-31 (10.5-11)		SB-32 (1-1.5)		SB-32 (4-4.5)		SB-32 (13.5-14)	
LAB SAMPLE ID:							L2547764-11		L2547764-06		L2547764-07		L2547764-08		L2548308-07		L2548308-08		L2548308-09		L2548308-10		L2548308-12		L2548308-11		L2548308-14		L2548308-13		L2548308-15	
SAMPLE DATE:							7/30/2025		7/30/2025		7/30/2025		7/30/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
METALS (SW846 7471B & SW846 6010D)																																
Aluminum	7429-90-5	mg/kg	NS	NS	NS	NS	5760		11200		9510		9960		5650		5340		6430		3490		5390		3740		4240		3880		3350	
Antimony	7440-36-0	mg/kg	NS	NS	NS	NS	4.39	U	4.59	U	4.48	U	4.05	U	4.32	U	4.31	U	4.15	U	4.19	U	4.43	U	4.24	U	4.38	U	4.04	U	4.34	U
Arsenic	7440-38-2	mg/kg	13	16	16	16	1.1		0.921		2.72		1.46		1.07		0.741	J	1.48		0.646	J	0.8	J	0.634	J	0.757	J	1.14		0.412	J
Barium	7440-39-3	mg/kg	410	410	410	820	57.7		143		89.8		96.4		58		55.7		67.8		23.8		35.1		35.7		28.1		36.8		40.4	
Beryllium	7440-41-7	mg/kg	4.4	43	670	47	0.227	J	0.459	U	0.139	J	0.073	J	0.197	J	0.188	J	0.318	J	0.107	J	0.168	J	0.126	J	0.149	J	0.152	J	0.103	J
Cadmium	7440-43-9	mg/kg	2.5	2.5	3.7	7.5	0.109	J	0.114	J	0.162	J	0.103	J	0.144	J	0.069	J	0.111	J	0.073	J	0.08	J	0.053	J	0.131	J	0.087	J	0.05	J
Calcium	7440-70-2	mg/kg	NS	NS	NS	NS	2180		4660		3310		5350		13100		11700		14500		4380		1310		5520		1660		16500		10900	
Chromium	7440-47-3	mg/kg	NS	NS	NS	NS	12.5		31.1		19.2		18.8		11.8		10.3		15.4		5.64		10.6		9.09		6.24		8.38		14.8	
Cobalt	7440-48-4	mg/kg	NS	NS	NS	NS	6.39		11.2		7.98		8.2		4.61		4.38		5.66		2.53		5.69		3.63		4.81		3.8		5.8	
Copper	7440-50-8	mg/kg	50	280	280	1720	15		33		25.6		30.8		16.3		14.1		19.2		7.57		18.1		11.8		11.6		15		21.4	
Iron	7439-89-6	mg/kg	NS	NS	NS	NS	11900		19200		17300		17400		9510		9270		12700		5320		11700		7940		7450		8750		7090	
Lead	7439-92-1	mg/kg	63	400	1000	450	4.3	J	11.1		72.5		45.9		14.5		4.18	J	3.49	J	26.6		7.69		4.4		29.6		2.11	J	4.03	J
Magnesium	7439-95-4	mg/kg	NS	NS	NS	NS	3520		6670		4960		5930		7110		6900		11300		3640		3730		4550		2220		10700		6700	
Manganese	7439-96-5	mg/kg	1600	2000	10000	2000	93.1		191		164		199		158		91.7		134		95.6		89.1		83.3		147		161		74.9	
Mercury	7439-97-6	mg/kg	0.18	0.3	1.1	0.73	0.075	U	0.08	U	0.088		0.076		0.08	U	0.079	U	0.073	U	0.071	U	0.078	U	0.076	U	0.076	U	0.075	U	0.069	U
Nickel	7440-02-0	mg/kg	30	320	320	130	12.7		26.8		15.3		15.7		9.24		8.9		13		5.19		10.5		6.28		7.47		7.38		9.96	
Potassium	7440-09-7	mg/kg	NS	NS	NS	NS	2470		7050		3210		3870		1950		2500		3250		763		1180		1290		758		1230		1830	
Selenium	7782-49-2	mg/kg	3.9	110	1700	4	1.76	U	1.84	U	0.372	J	1.62	U	1.73	U	1.72	U	1.66	U	1.68	U	1.77	U	1.7	U	1.75	U	1.62	U	1.74	U
Silver	7440-22-4	mg/kg	2	110	1700	8.3	0.439	U	0.459	U	0.448	U	0.405	U	0.552		0.431	U	0.415	U	0.419	U	0.443	U	0.424	U	0.438	U	0.404	U	0.434	U
Sodium	7440-23-5	mg/kg	NS	NS	NS	NS	157	J	122	J	159	J	193		118	J	172	U	166	U	168	U	340		332		175	U	268		174	U
Thallium	7440-28-0	mg/kg	NS	NS	NS	NS	1.76	U	0.84	J	1.79	U	1.62	U	1.73	U	1.72	U	0.801	J	1.68	U	1.77	U	1.7	U	1.75	U	1.62	U	1.74	U
Vanadium	7440-62-2	mg/kg	NS	NS	NS	NS	18.3		39.9		29.9		27.8		15.5		15.9		22.4		7.26		14.9		13.1		9.46		11.7		10.5	
Zinc	7440-66-6	mg/kg	109	6600	10000	2480	27.9		63.1		95.1		76		32.2		21.9		35.7		28.1		24.2		17.6		37.3		18.6		14.5	

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-33 (4-4.5)		SB-33 (6-6.5)		SB-33 (11.5-12)		SB-34 (2.5-3)		SB-34 (7-7.5)		SB-34 (10.5-11)		SB-35 (0.5-1)		SB-35 (9-9.5)		SB-35 (11.5-12)		SB-36 (4-5)		SB-36 (8-9)		SB-37 (4-4.5)		SB-37 (8.5-9)	
LAB SAMPLE ID:							L2548308-16		L2548308-17		L2548308-18		L2548308-04		L2548308-05		L2548308-06		L2548308-01		L2548308-02		L2548308-03		L2548397-02		L2548397-01		L2548309-03		L2548309-02	
SAMPLE DATE:							7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		8/1/2025		8/1/2025		7/31/2025		7/31/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
METALS (SW846 7471B & SW846 6010D)																																
Aluminum	7429-90-5	mg/kg	NS	NS	NS	NS	9910		9550		3540		11900		3750		5660		9730		4530		3550		9020		5700		8020		13700	
Antimony	7440-36-0	mg/kg	NS	NS	NS	NS	4.14	U	4.21	U	4.5	U	4	U	4.32	U	4.51	U	4.26	U	4.28	U	4.29	U	4.23	U	4.29	U	4.2	U	5.01	U
Arsenic	7440-38-2	mg/kg	13	16	16	16	0.938		0.993		0.553	J	3.17		0.571	J	0.568	J	5.1		0.725	J	0.741	J	1.06		0.731	J	1.37		3.18	
Barium	7440-39-3	mg/kg	410	410	410	820	80.6		109		31.6		77		43.3		57		63.6		50.5		82.1		87.4		43.5		58.8		57.8	
Beryllium	7440-41-7	mg/kg	4.4	43	670	47	0.288	J	0.27	J	0.138	J	0.379	J	0.124	J	0.14	J	0.252	J	0.261	J	0.116	J	0.25	J	0.255	J	0.294	J	0.508	
Cadmium	7440-43-9	mg/kg	2.5	2.5	3.7	7.5	0.108	J	0.121	J	0.058	J	0.248	J	0.051	J	0.085	J	0.391	J	0.075	J	0.072	J	0.128	J	0.075	J	0.081	J	0.115	J
Calcium	7440-70-2	mg/kg	NS	NS	NS	NS	1310		10200		13700		2480		1060		916		5230		15500		10100		2390		4890		6880		1190	
Chromium	7440-47-3	mg/kg	NS	NS	NS	NS	14.4		26.3		8.13		15.3		8.62		10.9		16.6		9.56		7.07		11.9		10		14.2		19.4	
Cobalt	7440-48-4	mg/kg	NS	NS	NS	NS	6.56		6.8		4.4		6.96		3.35		4.74		5.66		4.84		4.68		7.75		4.54		4.93		5.44	
Copper	7440-50-8	mg/kg	50	280	280	1720	19.9		28.5		14.3		18.4		12.9		14.1		34.3		13		10.8		20.3		19.5		14.6		11.6	
Iron	7439-89-6	mg/kg	NS	NS	NS	NS	16700		18400		8400		16700		7450		12300		17700		7910		7260		16700		9720		11700		16600	
Lead	7439-92-1	mg/kg	63	400	1000	450	4.08	J	4.05	J	2.06	J	93.9		3.68	J	4.38	J	147		2.62	J	2.25	J	4.06	J	6.91		9.07		33.8	
Magnesium	7439-95-4	mg/kg	NS	NS	NS	NS	4630		8600		6780		4900		2050		2900		5080		8510		6770		4710		4320		6160		3200	
Manganese	7439-96-5	mg/kg	1600	2000	10000	2000	254		299		153		264		53		125		452		158		411		266		126		213		263	
Mercury	7439-97-6	mg/kg	0.18	0.3	1.1	0.73	0.073	U	0.077	U	0.08	U	0.248		0.089	U	0.075	U	0.153		0.082	U	0.076	U	0.071	U	0.081	U	0.078	J	0.069	J
Nickel	7440-02-0	mg/kg	30	320	320	130	12		14		8.1		11.6		6.89		8.03		12.5		10.2		6.29		14.9		9.16		9.81		9.46	
Potassium	7440-09-7	mg/kg	NS	NS	NS	NS	3890		4370		1440		2110		1600		2560		1660		1660		1800		3620		1770		2320		432	
Selenium	7782-49-2	mg/kg	3.9	110	1700	4	1.66	U	1.68	U	1.8	U	1.6	U	1.73	U	1.8	U	1.7	U	1.71	U	1.72	U	1.69	U	1.72	U	1.68	U	2	U
Silver	7440-22-4	mg/kg	2	110	1700	8.3	0.414	U	0.421	U	0.45	U	0.4	U	0.432	U	0.451	U	0.426	U	0.428	U	0.429	U	0.423	U	0.429	U	0.42	U	0.501	U
Sodium	7440-23-5	mg/kg	NS	NS	NS	NS	198		388		97.5	J	195		173	U	180	U	170	U	103	J	100	J	238		228		490		208	
Thallium	7440-28-0	mg/kg	NS	NS	NS	NS	1.66	U	1	J	1.8	U	0.735	J	1.73	U	1.8	U	1.7	U	1.71	U	1.72	U	0.945	J	1.72	U	1.68	U	2	U
Vanadium	7440-62-2	mg/kg	NS	NS	NS	NS	27.6		28.5		12.3		30		13.3		15.8		20.6		14		12.3		30.6		14.8		20.5		28.5	
Zinc	7440-66-6	mg/kg	109	6600	10000	2480	37.6		42.2		15.8		84.3		17.4		28.6		126		19.4		16.8		41.1		23.3		26.7		44	

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs
Concentration Exceeds NYSDEC RRUSCOs
Concentration Exceeds NYSDEC UUSCOs
Concentration Exceeds

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

TABLE 5.4
SUMMARY OF SOIL SAMPLING RESULTS—METALS

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-37 (11.5-12)		SB-37 (17-17.5)		SB-38 (2-2.5)		SB-38 (5.5-6)		SB-38 (12.5-13)		SB-38 (16.5-17)		SB-39 (2.5-3)		SB-39 (9.5-10)		SB-39 (14-14.5)		SB-39 (15.5-16)		SB-40 (1-1.5)		SB-40 (8-9)		SB-40 (13.5-14)	
LAB SAMPLE ID:							L2548309-04		L2548309-01		L2547764-02		L2547764-03		L2547764-04		L2547764-05		L2548309-05		L2548309-06		L2548309-07		L2548309-09		L2550303-01		L2550303-02		L2550303-03	
SAMPLE DATE:							7/31/2025		7/31/2025		7/30/2025		7/30/2025		7/30/2025		7/30/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		8/11/2025		8/11/2025		8/11/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
METALS (SW846 7471B & SW846 6010D)																																
Aluminum	7429-90-5	mg/kg	NS	NS	NS	NS	7830		4350		12600		16100		5840		4530		8080		4830		3360		3750		5700		8710		10500	
Antimony	7440-36-0	mg/kg	NS	NS	NS	NS	4.3	U	4.28	U	4.5	U	5.11	U	4.33	U	4.28	U	4.18	U	8.58	U	4.5	U	4.06	U	4.04	U	4.72	U	4.9	U
Arsenic	7440-38-2	mg/kg	13	16	16	16	1.13		0.557	J	1.95		2.67		1.13		1.28		4.18		7.2		0.67	J	0.774	J	0.613	J	1.08		1.55	
Barium	7440-39-3	mg/kg	410	410	410	820	64.1		47.1		71.5		124		54.6		54.7		124		59.4		20.8		42.2		18.6		100		131	
Beryllium	7440-41-7	mg/kg	4.4	43	670	47	0.27	J	0.18	J	0.202	J	0.094	J	0.081	J	0.051	J	0.319	J	0.126	J	0.111	J	0.166	J	0.468		0.254	J	0.34	J
Cadmium	7440-43-9	mg/kg	2.5	2.5	3.7	7.5	0.075	J	0.047	J	0.901	U	0.233	J	0.866	U	0.856	U	0.674	J	0.701	J	0.06	J	0.812	U	0.078	J	0.102	J	0.172	J
Calcium	7440-70-2	mg/kg	NS	NS	NS	NS	1550		14200		1370		2970		11100		23200		5270		10200		1010		15600		4890		28500		17600	
Chromium	7440-47-3	mg/kg	NS	NS	NS	NS	21.9		8.93		18.5		37.7		11.1		10.1		15.7		9.76		7.15		8.69		7.24		16.1		22.8	
Cobalt	7440-48-4	mg/kg	NS	NS	NS	NS	5.6		3.78		7.09		9.42		5.26		4.55		5.51		5.8		2.5		3.24		2.6		6.24		8.24	
Copper	7440-50-8	mg/kg	50	280	280	1720	19.8		12.1		16		25		18.7		12.8		57.3		66.3		6.23		11.6		7.06		19.9		33.9	
Iron	7439-89-6	mg/kg	NS	NS	NS	NS	13700		8160		17000		20800		11700		10300		13400		48400		6520		8610		15300		13400		16600	
Lead	7439-92-1	mg/kg	63	400	1000	450	3.88	J	2.86	J	18.1		102		5.39		9.34		669		1570		10.7		2.11	J	1.78	J	53.8		72.3	
Magnesium	7439-95-4	mg/kg	NS	NS	NS	NS	4220		8340		3850		6740		7970		9220		3600		5830		1400		7510		2430		8530		8930	
Manganese	7439-96-5	mg/kg	1600	2000	10000	2000	152		139		302		365		206		582		339		312		54.8		230		187		180		212	
Mercury	7439-97-6	mg/kg	0.18	0.3	1.1	0.73	0.086	U	0.077	U	0.053	J	0.107		0.073	U	0.07	U	0.374		0.133		0.084	U	0.073	U	0.065	U	0.085	U	0.064	J
Nickel	7440-02-0	mg/kg	30	320	320	130	15.3		7.11		12.5		25.3		10.3		7.86		12		11		4.72		6.7		3.29		12		17.8	
Potassium	7440-09-7	mg/kg	NS	NS	NS	NS	3080		1810		1790		2970		2030		1860		1380		1040		417		1370		478		2690		4840	
Selenium	7782-49-2	mg/kg	3.9	110	1700	4	1.72	U	1.71	U	1.8	U	2.04	U	1.73	U	1.71	U	1.67	U	3.43	U	1.8	U	1.62	U	1.61	U	1.89	U	1.96	U
Silver	7440-22-4	mg/kg	2	110	1700	8.3	0.43	U	0.428	U	0.45	U	0.511	U	0.433	U	0.428	U	0.418	U	0.858	U	0.45	U	0.406	U	0.404	U	0.472	U	0.49	U
Sodium	7440-23-5	mg/kg	NS	NS	NS	NS	163	J	130	J	366		400		126	J	149	J	117	J	205	J	180	U	114	J	161	U	769		609	
Thallium	7440-28-0	mg/kg	NS	NS	NS	NS	1.72	U	1.71	U	1.8	U	2.04	U	1.73	U	1.71	U	1.67	U	3.43	U	1.8	U	1.62	U	1.61	U	1.89	U	1.96	U
Vanadium	7440-62-2	mg/kg	NS	NS	NS	NS	22.2		13.3		27.3		39.1		14.8		13.9		22.8		20.5		8.94		12.1		6.8		23.2		29.8	
Zinc	7440-66-6	mg/kg	109	6600	10000	2480	35.2		18.7		41.4		400		28.4		19.2		214		243		23.2		17		31.8		52		68.4	

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-41 (0.5-1.5)		SB-41 (7-8)		SB-42 (3-4)		SB-42 (8-9)		SB-43 (0.5-1.5)		SB-43 (9-10)		SB-44 (2-3)		SB-45 (1-2)		SB-45 (9-10)		SB-46 (1-2)		SB-46 (7-8)		SB-47 (4-5)		SB-47 (9-10)	
LAB SAMPLE ID:							L2550303-04		L2550303-05		L2550303-06		L2550303-07		L2550303-08		L2550303-09		L2553523-01		L2550303-11		L2550303-12		L2553533-01		L2553533-02		L2553536-01		L2553536-02	
SAMPLE DATE:							8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
METALS (SW846 7471B & SW846 6010D)																																
Aluminum	7429-90-5	mg/kg	NS	NS	NS	NS	4980		8650		8810		7320		8250		3800		11800		5980		7500		12700		6730		17900		7400	
Antimony	7440-36-0	mg/kg	NS	NS	NS	NS	4.07	U	4.44	U	4.05	U	4.57	U	4.01	U	9.83	U	4.08	U	4.23	U	4.4	U	4.29	U	4.42	U	4.23	U	4.43	U
Arsenic	7440-38-2	mg/kg	13	16	16	16	0.814	U	0.929		0.905		0.445	J	0.952		1.24	J	2.84		2.73		2.54		1.67		1.34		1.85		1.72	
Barium	7440-39-3	mg/kg	410	410	410	820	12.8		55.1		44.6		45.1		18		24.9		228		81.6		71		85.9		53.5		94.3		62.6	
Beryllium	7440-41-7	mg/kg	4.4	43	670	47	0.313	J	0.359	J	0.611		0.274	J	0.672		0.254	J	0.377	J	0.26	J	0.247	J	0.35	J	0.229	J	0.239	J	0.327	J
Cadmium	7440-43-9	mg/kg	2.5	2.5	3.7	7.5	0.072	J	0.098	J	0.092	J	0.062	J	0.128	J	1.97	U	0.313	J	0.272	J	0.116	J	0.15	J	0.086	J	0.164	J	0.131	J
Calcium	7440-70-2	mg/kg	NS	NS	NS	NS	4990		86700		24300		69800		7240		132000		5670		87900		1360		971		3090		1640		1610	
Chromium	7440-47-3	mg/kg	NS	NS	NS	NS	3.16		13.1		13.4		12		5.33		8.37		17.6		10.4		25.4		17.6		11		37.5		13.3	
Cobalt	7440-48-4	mg/kg	NS	NS	NS	NS	2.35		5.06		5.07		4.66		3.77		6.16		7.1		4.08		8.3		8.45		6.15		13.5		6.11	
Copper	7440-50-8	mg/kg	50	280	280	1720	7.3		15.3		11.7		10.7		9.78		20.2		22.1		19.7		22		16.7		14.9		55.2		17.4	
Iron	7439-89-6	mg/kg	NS	NS	NS	NS	13900		11700		17400		10400		21100		11700		15700		9820		17000		18800		11600		27300		12800	
Lead	7439-92-1	mg/kg	63	400	1000	450	1.21	J	22.4		2.62	J	2.74	J	1.94	J	18.8		161		113		2.79	J	6.46		5.35		7.05		4.56	
Magnesium	7439-95-4	mg/kg	NS	NS	NS	NS	2160		5700		6570		9260		3690		4840		5950		41800		4070		4670		4330		8560		4180	
Manganese	7439-96-5	mg/kg	1600	2000	10000	2000	174		203		212		152		258		726		367		240		115		411		196		162		74	
Mercury	7439-97-6	mg/kg	0.18	0.3	1.1	0.73	0.069	U	0.074	U	0.071	U	0.077	U	0.075	U	0.094	U	0.105		0.075	J	0.074	U	0.09	U	0.083	U	0.075	U	0.075	U
Nickel	7440-02-0	mg/kg	30	320	320	130	2.58		11.8		9.36		10.8		4.13		14.6		13.3		8.82		14		14.3		10.7		17.1		12.5	
Potassium	7440-09-7	mg/kg	NS	NS	NS	NS	263		2130		2210		2460		490		727		2660		1430		3860		3740		2230		10400		2700	
Selenium	7782-49-2	mg/kg	3.9	110	1700	4	1.63	U	1.77	U	1.62	U	1.83	U	1.6	U	3.93	U	1.63	U	1.69	U	1.76	U	1.72	U	1.77	U	1.69	U	1.77	U
Silver	7440-22-4	mg/kg	2	110	1700	8.3	0.407	U	0.444	U	0.405	U	0.457	U	0.401	U	0.983	U	0.408	U	0.423	U	0.44	U	0.429	U	0.442	U	0.423	U	0.443	U
Sodium	7440-23-5	mg/kg	NS	NS	NS	NS	163	U	433		150	J	230		160	U	393	U	163	U	116	J	209		172	U	350		169	U	158	J
Thallium	7440-28-0	mg/kg	NS	NS	NS	NS	1.63	U	1.77	U	1.62	U	1.83	U	1.6	U	3.93	U	1.63	U	1.69	U	1.22	J	1.2	J	1.77	U	4.78		0.829	J
Vanadium	7440-62-2	mg/kg	NS	NS	NS	NS	6.11		18.6		16.8		18		9.84		11.5		26.7		20.1		26.5		29.1		16.9		59.5		19.5	
Zinc	7440-66-6	mg/kg	109	6600	10000	2480	27.4		31		39.8		25.6		46.5		18.7		89.8		79.1		32.3		45		26.8		77.7		29	

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs
Concentration Exceeds NYSDEC RRUSCOs
Concentration Exceeds NYSDEC UUSCOs
Concentration Exceeds

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

SESI CONSULTING ENGINEERS

REMEDIAL INVESTIGATION REPORT

TABLE 5.4
SUMMARY OF SOIL SAMPLING RESULTS—METALS

26-28, 40, 60 East Post Road
223-225 Dr. MLK Jr. Blvd.
and Brookfield Street
White Plains, NY

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-50 (4-5)		SB-50 (6.5-7.5)		SB-51 (2-3)		SB-51 (9-10)		SB-52 (2-3)		SB-52 (7.5-8.5)		SB-56 (1-2)		SB-56 (9-10)		SB-56 (11-12)		SB-57 (1-2)		SB-57 (7.5-8.5)		SB-57 (10-11)		SB-58 (4-5)	
LAB SAMPLE ID:							L2550303-22		L2550303-23		L2550303-24		L2550303-25		L2553523-02		L2553523-03		L2550665-01		L2550665-02		L2550665-03		L2550665-04		L2550665-05		L2550665-06		L2550665-07	
SAMPLE DATE:							8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
METALS (SW846 7471B & SW846 6010D)																																
Aluminum	7429-90-5	mg/kg	NS	NS	NS	NS	9260		7760		11100		12700		12700		7760		9380		4790		3850		8140		10500		2660		10600	
Antimony	7440-36-0	mg/kg	NS	NS	NS	NS	4.25	U	4.09	U	4.72	U	5.06	U	4.06	U	4.47	U	4.25	U	4.28	U	4.46	U	4.48	U	4.33	U	4.17	U	4.08	U
Arsenic	7440-38-2	mg/kg	13	16	16	16	2.68		0.718	J	1.58		3.1		2.26		0.884	J	5		0.717	J	0.758	J	7.05		0.764	J	0.421	J	0.785	J
Barium	7440-39-3	mg/kg	410	410	410	820	66.1		16.7		34.7		153		206		81.8		149		60.6		44.5		174		80.4		31.7		69.8	
Beryllium	7440-41-7	mg/kg	4.4	43	670	47	0.308	J	0.489		1.04		0.348	J	0.246	J	0.254	J	0.298	J	0.09	J	0.085	J	0.255	J	0.06	J	0.417	U	0.122	J
Cadmium	7440-43-9	mg/kg	2.5	2.5	3.7	7.5	0.175	J	0.152	J	0.239	J	0.269	J	0.187	J	0.125	J	1.17		0.856	U	0.891	U	0.687	J	0.122	J	0.835	U	0.133	J
Calcium	7440-70-2	mg/kg	NS	NS	NS	NS	31600		6180		9810		28300		6920		9600		2470		13000		15300		3730		1560		13400		928	
Chromium	7440-47-3	mg/kg	NS	NS	NS	NS	15.2		7.83		8.94		25.3		40.7		16.8		17.7		8.8		8.06		16.7		17.6		5.3		16.2	
Cobalt	7440-48-4	mg/kg	NS	NS	NS	NS	6.26		3.14		7.06		9.74		8.98		5.14		6.41		4.32		3.42		5.58		7.4		3.07		7.69	
Copper	7440-50-8	mg/kg	50	280	280	1720	22.8		9.58		15		43.7		27.5		13.3		35.4		11.8		9.2		348		17.1		6.86		21.4	
Iron	7439-89-6	mg/kg	NS	NS	NS	NS	17400		20500		28400		20800		19800		13200		14500		9340		7960		17400		19400		5630		16600	
Lead	7439-92-1	mg/kg	63	400	1000	450	30.6		1.14	J	2.54	J	48.7		22.1		23.1		603		2.14	J	2.25	J	1080		6.04		1.71	J	4.11	
Magnesium	7439-95-4	mg/kg	NS	NS	NS	NS	19000		3530		5160		8990		8590		7490		3450		8170		8650		2550		4380		5960		5430	
Manganese	7439-96-5	mg/kg	1600	2000	10000	2000	274		248		340		271		251		161		270		536		140		224		291		5960		510	
Mercury	7439-97-6	mg/kg	0.18	0.3	1.1	0.73	0.083	U	0.071	U	0.085	U	0.096	U	0.086	U	0.091	U	1.8		0.076	U	0.078	U	1.32		0.082	U	0.074	U	0.073	U
Nickel	7440-02-0	mg/kg	30	320	320	130	12		5.22		6.53		19.6		24.6		11.3		11.8		9.16		6.62		9.67		12.5		5.43		12.2	
Potassium	7440-09-7	mg/kg	NS	NS	NS	NS	2690		486		1090		6520		7240		3800		1260		2060		1560		688		4160		1190		2500	
Selenium	7782-49-2	mg/kg	3.9	110	1700	4	1.7	U	1.64	U	1.89	U	2.02	U	1.62	U	1.79	U	0.801	J	1.71	U	1.78	U	0.562	J	1.73	U	1.67	U	1.63	U
Silver	7440-22-4	mg/kg	2	110	1700	8.3	0.425	U	0.26	J	0.352	J	0.506	U	0.406	U	0.447	U	0.425	U	0.428	U	0.446	U	0.639		0.433	U	0.417	U	0.408	U
Sodium	7440-23-5	mg/kg	NS	NS	NS	NS	303		111	J	291		345		223		234		91.5	J	126	J	112	J	150	J	98.7	J	167	U	291	
Thallium	7440-28-0	mg/kg	NS	NS	NS	NS	1.13	J	1.64	U	1.89	U	1.72	J	2.15		0.97	J	1.7	U	1.71	U	1.78	U	1.79	U	1.21	J	1.67	U	0.877	J
Vanadium	7440-62-2	mg/kg	NS	NS	NS	NS	25.7		10.8		14.1		39.2		43.7		21.2		26.4		15.1		11.4		22.5		31.9		7.88		25.2	
Zinc	7440-66-6	mg/kg	109	6600	10000	2480	41		35.9		65.2		79		55.8		39.9		664		20.9		16.8		447		36.4		12.5		34.9	

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-58 (7.5-8.5)		SB-59 (1-2)		SB-60 (2-3)		SB-60 (6-7)		SB-61 (1-2)		SB-61 (5-6)		SB-62 (4-5)		SB-62 (6-7)		SB-63 (2-3)		SB-63 (7-8)		SB-64 (2-3)		SB-64 (7.5-8.5)		SB-65 (1-2)	
LAB SAMPLE ID:							L2550665-08		L2550665-09		L2550665-10		L2550665-11		L2550665-12		L2550665-13		L2550665-14		L2550665-15		L2553571-01		L2553571-02		L2553571-03		L2553571-04		L2550665-20	
SAMPLE DATE:							8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
METALS (SW846 7471B & SW846 6010D)																																
Aluminum	7429-90-5	mg/kg	NS	NS	NS	NS	4900		5840		4400		4830		11500		12100		7280		5140		10600		4740		5590		6520		5500	
Antimony	7440-36-0	mg/kg	NS	NS	NS	NS	4.39	U	4	U	4.09	U	4.16	U	4.44	U	4.31	U	4.43	U	4.32	U	4.78	U	4.28	U	4.3	U	4.1	U	4.86	U
Arsenic	7440-38-2	mg/kg	13	16	16	16	1.78		0.711	J	0.687	J	0.621	J	3.76		2.43		4.36		0.711	J	5.76		0.966		0.941		1.18		0.858	J
Barium	7440-39-3	mg/kg	410	410	410	820	54.4		26.6		27		33.6		1010		243		154		37.8		182		57		41.6		55.2		47.6	
Beryllium	7440-41-7	mg/kg	4.4	43	670	47	0.439	U	0.169	J	0.087	J	0.221	J	0.319	J	0.243	J	0.204	J	0.174	J	0.352	J	0.078	J	0.082	J	0.101	J	0.178	J
Cadmium	7440-43-9	mg/kg	2.5	2.5	3.7	7.5	0.148	J	0.11	J	0.086	J	0.071	J	0.238	J	0.448	J	0.376	J	0.052	J	0.889	J	0.1	J	0.117	J	0.127	J	0.11	J
Calcium	7440-70-2	mg/kg	NS	NS	NS	NS	2180		889		1070		5260		4760		3160		3420		1460		2680		1460		1740		3580		1050	
Chromium	7440-47-3	mg/kg	NS	NS	NS	NS	10.5		12.4		7.87		9.51		17.5		17.8		15.2		10.4		22		8.03		8.27		10.3		9.75	
Cobalt	7440-48-4	mg/kg	NS	NS	NS	NS	7.49		3.98		2.18		4.02		6.45		7.93		5.45		2.88		8.17		3.77		4.68		7.99		6.18	
Copper	7440-50-8	mg/kg	50	280	280	1720	21.9		17.1		15		9.98		25.7		30.5		142		7.03		40.6		7.41		12.2		25.1		15.6	
Iron	7439-89-6	mg/kg	NS	NS	NS	NS	11900		10000		8100		9630		16200		17400		18400		6860		17900		8360		10400		11000		9740	
Lead	7439-92-1	mg/kg	63	400	1000	450	2.89	J	2.76	J	1.84	J	2.26	J	2520		321		451		4.27	J	467		2.62	J	4.06	J	8.37		4.7	J
Magnesium	7439-95-4	mg/kg	NS	NS	NS	NS	2610		2380		1460		5390		4320		4750		3090		1980		3110		1870		1920		2810		2010	
Manganese	7439-96-5	mg/kg	1600	2000	10000	2000	203		129		160		127		246		453		243		81.5		359		236		235		230		296	
Mercury	7439-97-6	mg/kg	0.18	0.3	1.1	0.73	0.081	U	0.076	U	0.079	U	0.078	U	0.118		0.095		0.877		0.078	U	1.2		0.071	U	0.074	U	0.077	U	0.094	U
Nickel	7440-02-0	mg/kg	30	320	320	130	11.9		9.06		6.18		7.16		12.6		12.6		9.8		5.97		18.6		6.66		7.74		10.8		8.66	
Potassium	7440-09-7	mg/kg	NS	NS	NS	NS	1930		887		669		1250		1710		1430		868		406		903		918		1420		1750		1400	
Selenium	7782-49-2	mg/kg	3.9	110	1700	4	1.76	U	1.6	U	1.64	U	1.66	U	1.78	U	1.72	U	1.77	U	1.73	U	0.569	J	1.71	U	1.72	U	1.64	U	1.94	U
Silver	7440-22-4	mg/kg	2	110	1700	8.3	0.439	U	0.4	U	0.409	U	0.416	U	0.444	U	0.431	U	0.443	U	0.432	U	0.654		0.428	U	0.43	U	0.41	U	0.486	U
Sodium	7440-23-5	mg/kg	NS	NS	NS	NS	127	J	274		105	J	114	J	218		174		108	J	173	U	425		183		185		179		137	J
Thallium	7440-28-0	mg/kg	NS	NS	NS	NS	1.76	U	1.6	U	1.64	U	1.66	U	0.82	J	0.913	J	1.77	U	1.73	U	1.91	U	1.71	U	1.72	U	1.64	U	1.94	U
Vanadium	7440-62-2	mg/kg	NS	NS	NS	NS	19.3		14		10.6		12		29.7		27.4		22.3		11.5		29.5		11.8		13.8		15.6		13.3	
Zinc	7440-66-6	mg/kg	109	6600	10000	2480	43.2		18.8		14.5		19.4		479		192		323		30		327		17.6		20.9		29.3		40.5	

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs
Concentration Exceeds NYSDEC RRUSCOs
Concentration Exceeds NYSDEC UUSCOs
Concentration Exceeds

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

TABLE 5.4
SUMMARY OF SOIL SAMPLING RESULTS—METALS

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-65 (6-7)		SB-66 (0.5-1.5)		SB-66 (8.75-9.75)		SB-68 (2.25-3.25)		SB-68 (5-6)		SB-69 (1-2)		SB-69 (8.75-9.75)		SB-70 (3.5-4.5)		SB-70 (9-10)		SB-71 (1-2)		SB-71 (8-9)		SB-71(2.0-2.5)		SB-71(8.5-9.0)	
LAB SAMPLE ID:							L2550665-21		L2553509-01		L2553509-02		L2551038-01		L2551038-02		L2551038-03		L2551038-04		L2551038-05		L2551038-06		L2551039-04		L2551039-05		JE18375-1		JE18375-2	
SAMPLE DATE:							8/12/2025		8/13/2025		8/13/2025		8/13/2025		8/13/2025		8/13/2025		8/13/2025		8/13/2025		8/13/2025		8/13/2025		8/13/2025		9/4/2025		9/4/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
METALS (SW846 7471B & SW846 6010D)																																
Aluminum	7429-90-5	mg/kg	NS	NS	NS	NS	1840		11900		4550		5900		7260		3870		5030		8140		6120		7950		6660		8750		5420	
Antimony	7440-36-0	mg/kg	NS	NS	NS	NS	4.13	U	5.12	U	4.34	U	4.19	U	4.04	U	3.98	U	4.21	U	4.09	U	4.39	U	4.33	U	4.32	U	2.2	U	2	U
Arsenic	7440-38-2	mg/kg	13	16	16	16	0.504	J	4.54		0.826	J	0.568	J	0.879		1.24		0.662	J	1.09		1.94		15.8		0.589	J	2.2	U	2	U
Barium	7440-39-3	mg/kg	410	410	410	820	26.4		128		60		73.2		47.1		27.4		57.5		86		57.5		449		53.9		53.1		49.3	
Beryllium	7440-41-7	mg/kg	4.4	43	670	47	0.128	J	0.462	J	0.434	U	0.115	J	0.087	J	0.069	J	0.107	J	0.062	J	0.192	J	0.22	J	0.432	U	0.22	U	0.2	U
Cadmium	7440-43-9	mg/kg	2.5	2.5	3.7	7.5	0.186	J	0.086	J	0.868	U	0.838	U	0.065	J	0.796	U	0.843	U	0.08	J	0.06	J	0.804	J	0.064	J	0.55	U	0.51	U
Calcium	7440-70-2	mg/kg	NS	NS	NS	NS	755		2470		7500		14800		1640		13100		22900		1650		2560		16400		1600		775		3280	
Chromium	7440-47-3	mg/kg	NS	NS	NS	NS	2.89		16.6		7.87		10.9		14.3		5.42		10.4		10.2		13.5		16.3		15.4		13.7		8.9	
Cobalt	7440-48-4	mg/kg	NS	NS	NS	NS	2.91		6.91		4.11		4.8		6.47		3.41		4.55		6.46		6.84		5.44		5.31		5.9		5.7	
Copper	7440-50-8	mg/kg	50	280	280	1720	7.45		17.9		8.35		12.1		28.5		10.9		25.3		99.2		24.5		120		15.2		15.9		13.4	
Iron	7439-89-6	mg/kg	NS	NS	NS	NS	4670		13000		8820		10400		13900		7380		9860		14800		13000		10800		11000		14000		12300	
Lead	7439-92-1	mg/kg	63	400	1000	450	1.1	J	67.3		8.11		2.45	J	3.42	J	2.56	J	3.42	J	2.53	J	11.9		1100		2.27	J	5		4	
Magnesium	7439-95-4	mg/kg	NS	NS	NS	NS	904		2230		4460		8110		3380		1490		12500		4180		5100		4580		3920		3190		2340	
Manganese	7439-96-5	mg/kg	1600	2000	10000	2000	398		442		192		299		194		153		165		260		208		179		154		268		250	
Mercury	7439-97-6	mg/kg	0.18	0.3	1.1	0.73	0.082	U	0.127		0.071	U	0.083	U	0.07	U	0.077	U	0.072	U	0.073	U	0.083	U	0.178		0.083	U	0.029	U	0.032	U
Nickel	7440-02-0	mg/kg	30	320	320	130	6.52		11.5		6.1		8.61		10.2		6.51		8.89		10.6		14.1		26.6		10		11.1		9.8	
Potassium	7440-09-7	mg/kg	NS	NS	NS	NS	458		639		1530		2270		2600		1020		2050		3010		1790		653		2370		1920		1270	
Selenium	7782-49-2	mg/kg	3.9	110	1700	4	1.65	U	2.05	U	1.74	U	1.68	U	1.62	U	1.59	U	1.68	U	1.64	U	1.76	U	2.2		1.73	U	2.2	U	2	U
Silver	7440-22-4	mg/kg	2	110	1700	8.3	0.413	U	0.512	U	0.434	U	0.419	U	0.404	U	0.398	U	0.421	U	0.409	U	0.439	U	0.491		0.432	U	0.55	U	0.51	U
Sodium	7440-23-5	mg/kg	NS	NS	NS	NS	106	J	473		141	J	310		272		240		299		360		216		130	J	140	J	1100	U	1000	U
Thallium	7440-28-0	mg/kg	NS	NS	NS	NS	1.65	U	2.05	U	1.74	U	1.68	U	1.62	U	1.59	U	1.68	U	1.64	U	1.76	U	1.73	U	1.73	U	1.1	U	1	U
Vanadium	7440-62-2	mg/kg	NS	NS	NS	NS	4.56		26.7		13		16.3		20		8.61		15.3		22.9		20.7		16.6		20		20.6		16.1	
Zinc	7440-66-6	mg/kg	109	6600	10000	2480	9.03		78		23.4		20.2		25.8		15		19.5		33.9		24.6		753		28.4		35.3		27.3	

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-72(2.0-2.5)		SB-72(5.5-6.0)		SB-73(1.5-2.0)		SB-73(8.0-8.5)		SB-73(12.5-13)		SB-74 (2.5-3.0)		SB-74 (6.5-7.0)		SB-74 (13.5-14.0)		SB-74 (16.5-17.0)		SB-75 (3.0-3.5)		SB-75 (6.5-7.0)		SB-75 (12.0-12.5)		SB-75 (18.0-18.5)	
LAB SAMPLE ID:							JE18375-8		JE18375-9		JE18375-3		JE18375-4		JE18375-5		JE18488-9		JE18488-10		JE18488-11		JE18488-12		JE18488-5		JE18488-6		JE18488-7		JE18488-8	
SAMPLE DATE:							9/4/2025		9/4/2025		9/4/2025		9/4/2025		9/4/2025		9/5/2025		9/5/2025		9/5/2025		9/5/2025		9/5/2025		9/5/2025		9/5/2025		9/5/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
METALS (SW846 7471B & SW846 6010D)																																
Aluminum	7429-90-5	mg/kg	NS	NS	NS	NS	5050		3760		17000		5080		5470		10400		10100		6220		3700		12300		15600		19000		15800	
Antimony	7440-36-0	mg/kg	NS	NS	NS	NS	2.2	U	2.3	U	2.3	U	2.3	U	2	U	2.2	U	2.1	U	2.3	U	2.2	U	2.3	U	2.4	U	2.2	U	4.4	U
Arsenic	7440-38-2	mg/kg	13	16	16	16	3.2		2.3	U	3.1		2.3	U	2	U	2.2	U	2.1	U	2.3	U	2.2	U	3		4		2.2	U	2.2	U
Barium	7440-39-3	mg/kg	410	410	410	820	57.1		43.4		55.2		61.7		38.1		43.1		64.6		49.9		35.2		52.2		58.6		60.9		280	
Beryllium	7440-41-7	mg/kg	4.4	43	670	47	0.22	U	0.23	U	0.39		0.23	U	0.2	U	0.29		0.3		0.23	U	0.22	U	0.43		0.5		1.1		0.22	U
Cadmium	7440-43-9	mg/kg	2.5	2.5	3.7	7.5	0.54	U	0.57	U	0.58	U	0.57	U	0.51	U	0.54	U	0.52	U	0.57	U	0.56	U	0.58	U	0.61	U	1.1	U	0.55	U
Calcium	7440-70-2	mg/kg	NS	NS	NS	NS	1700		15400		876		12900		1050		906		813		11500		19000		17800		1050		25800		8260	
Chromium	7440-47-3	mg/kg	NS	NS	NS	NS	9.8		15.2		22.1		11.8		11.4		16.4		14.8		20.6		8.3		13.5		18.6		42.7		58.3	
Cobalt	7440-48-4	mg/kg	NS	NS	NS	NS	5.4	U	5.7	U	7.9		10.1		5.4		5.6		9.1		5.7	U	5.6	U	6.1		10.6		7.4		16.7	
Copper	7440-50-8	mg/kg	50	280	280	1720	13.3		11.6		14.1		38.1		16.2		15.2		18.2		14.8		14.9		11.3		18.7		17.3		5.5	U
Iron	7439-89-6	mg/kg	NS	NS	NS	NS	9250		8840		19200		14300		11500		16800		16000		12800		7960		17000		23300		19900		23500	
Lead	7439-92-1	mg/kg	63	400	1000	450	2.5		8.3		39		2.3	U	3.7		3.8		3.5		5.9		2.2		16.1		6.7		2.2	U	2.2	U
Magnesium	7439-95-4	mg/kg	NS	NS	NS	NS	2140		7940		4520		7970		2510		3300		4780		7120		8500		11000		6300		15400		17600	
Manganese	7439-96-5	mg/kg	1600	2000	10000	2000	88		128		487		117		247		358		338		214		124		530		861		134		227	
Mercury	7439-97-6	mg/kg	0.18	0.3	1.1	0.73	0.033	U	0.033	U	0.087		0.035	U	0.027	U	0.029	U	0.032	U	0.03	U	0.028	U	0.041		0.032	U	0.035	U	0.028	U
Nickel	7440-02-0	mg/kg	30	320	320	130	8.8		8.1		14.9		13.6		10.7		10.3		13.7		10.5		7.5		9.9		14.7		20.6		48.8	
Potassium	7440-09-7	mg/kg	NS	NS	NS	NS	1570		1280		1200	U	1730		1010		1280		2560		2020		1320		1200	U	1650		2480		5860	
Selenium	7782-49-2	mg/kg	3.9	110	1700	4	2.2	U	2.3	U	2.3	U	2.3	U	2	U	2.2	U	2.1	U	2.3	U	2.2	U	2.3	U	2.4	U	2.2	U	4.4	U
Silver	7440-22-4	mg/kg	2	110	1700	8.3	0.54	U	0.57	U	0.58	U	0.57	U	0.51	U	0.54	U	0.52	U	0.57	U	0.56	U	0.58	U	0.61	U	0.55	U	1.1	U
Sodium	7440-23-5	mg/kg	NS	NS	NS	NS	1100	U	1100	U	1200	U	1100	U	1000	U	1100	U	1000	U	1100	U	1100	U	1200	U	1200	U	1480		1100	U
Thallium	7440-28-0	mg/kg	NS	NS	NS	NS	1.1	U	1.1	U	1.2	U	1.1	U	1	U	1.1	U	1	U	1.1	U	1.1	U	1.2	U	1.2	U	1.1	U	2.2	U
Vanadium	7440-62-2	mg/kg	NS	NS	NS	NS	14.8		11.7		32		25.8		14		21.7		22.5		18.4		12.1		23		35.2		36.5		29.5	
Zinc	7440-66-6	mg/kg	109	6600	10000	2480	21.9		18.6		52.5		26.4		24		29		34.7		29.9		18.7		33		35.9		37.1		62.6	

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs
Concentration Exceeds NYSDEC RRUSCOs
Concentration Exceeds NYSDEC UUSCOs
Concentration Exceeds

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

TABLE 5.4
SUMMARY OF SOIL SAMPLING RESULTS—METALS

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-76 (2.0-2.5)		SB-76 (5.5-6.0)		SB-76 (12.5-13.0)		SB-76 (17.5-18.0)		SB-77(2.0-2.5)		SB-77(9.0-9.5)		SB-77(12.5-13)		SB-78(2.5-3.0)		SB-78(6.5-7.0)		SB-79(2.5-3)		SB-79(7.5-8.0)		SB-79(13.5-14.0)		SB-80(4.0-4.5)	
LAB SAMPLE ID:							JE18488-1		JE18488-2		JE18488-3		JE18488-4		JE18629-1		JE18629-2		JE18629-3		JE18375-6		JE18375-7		JE18629-7		JE18629-8		JE18629-9		JE18629-4	
SAMPLE DATE:							9/5/2025		9/5/2025		9/5/2025		9/5/2025		9/8/2025		9/8/2025		9/8/2025		9/4/2025		9/4/2025		9/8/2025		9/8/2025		9/8/2025		9/8/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
METALS (SW846 7471B & SW846 6010D)																																
Aluminum	7429-90-5	mg/kg	NS	NS	NS	NS	10500		12200		3790		7040		8980		7920		8900		18700		5830		5010		7500		4880		12600	
Antimony	7440-36-0	mg/kg	NS	NS	NS	NS	2.2	U	2.3	U	2.2	U	2.2	U	2.4	U	1.5	U	2.2	U	2.2	U	2.1	U	2.1	U	2.4	U	2.1	U	2.2	U
Arsenic	7440-38-2	mg/kg	13	16	16	16	5.2		5.7		2.2	U	3.2		2.4	U	1.5	U	2.2	U	3.9		2.5		2.1	U	2.4	U	2.1	U	3.2	
Barium	7440-39-3	mg/kg	410	410	410	820	182		126		31.5		97		85.3		145		68		53.8		47.2		56.6		42.6		44.4		73.9	
Beryllium	7440-41-7	mg/kg	4.4	43	670	47	0.4		0.41		0.22	U	0.22		0.27		0.17		0.25		0.7		0.21		0.21	U	0.24		0.21	U	0.39	
Cadmium	7440-43-9	mg/kg	2.5	2.5	3.7	7.5	0.55	U	1.2		0.56	U	0.56	U	0.6	U	0.76	U	0.55	U	0.56	U	0.53	U	0.53	U	0.59	U	0.52	U	0.54	U
Calcium	7440-70-2	mg/kg	NS	NS	NS	NS	11600		7620		1200		12500		1920		19200		4480		648		4360		3340		2610		13100		5130	
Chromium	7440-47-3	mg/kg	NS	NS	NS	NS	15.7		17.8		5.6		14.4		17.7		18.5		21.4		22.1		12.7		7.6		18.2		8.9		18.6	
Cobalt	7440-48-4	mg/kg	NS	NS	NS	NS	6.9		7.6		5.6	U	5.6	U	9		7		9		9.6		5.3	U	5.6		6		5.2	U	8.7	
Copper	7440-50-8	mg/kg	50	280	280	1720	22.9		30.4		9.9		30.9		19.2		16.1		19		17.6		12.8		19.7		20		13.9		17.4	
Iron	7439-89-6	mg/kg	NS	NS	NS	NS	16200		22700		7030		11800		17400		14200		16500		24600		10800		9370		12600		20800		18100	
Lead	7439-92-1	mg/kg	63	400	1000	450	404		351		2.2		120		4.4		3.2		3.3		40.3		12.3		59.6		5.8		20.1		53.9	
Magnesium	7439-95-4	mg/kg	NS	NS	NS	NS	3490		3490		1270		3560		4630		9780		5490		7470		2170		2750		4020		7430		3990	
Manganese	7439-96-5	mg/kg	1600	2000	10000	2000	466		684		158		261		207		169		139		481		279		215		340		238		341	
Mercury	7439-97-6	mg/kg	0.18	0.3	1.1	0.73	0.18		0.12		0.032	U	0.03	U	0.032	U	0.031	U	0.032	U	0.058		0.033		0.069		0.037	U	0.028	U	0.056	
Nickel	7440-02-0	mg/kg	30	320	320	130	15		13.7		6		12.1		15.9		13.7		14.9		15.5		9.2		9.3		13.7		8		13.8	
Potassium	7440-09-7	mg/kg	NS	NS	NS	NS	1100	U	1200	U	1100	U	1350		3190		3780		3030		1100	U	1110		1100	U	1340		1380		2310	
Selenium	7782-49-2	mg/kg	3.9	110	1700	4	2.2	U	2.7		2.2	U	2.2	U	2.4	U	1.5	U	2.2	U	4.5	U	2.1	U	2.1	U	2.4	U	2.1	U	2.2	U
Silver	7440-22-4	mg/kg	2	110	1700	8.3	0.55	U	0.59	U	0.56	U	0.56	U	0.6	U	0.38	U	0.55	U	0.56	U	0.53	U	0.53	U	0.59	U	0.52	U	0.54	U
Sodium	7440-23-5	mg/kg	NS	NS	NS	NS	1100	U	1200	U	1100	U	1100	U	1200	U	760	U	1100	U	1100	U	1100	U	1100	U	1200	U	1000	U	1100	U
Thallium	7440-28-0	mg/kg	NS	NS	NS	NS	1.1	U	1.2	U	1.1	U	1.1	U	1.2	U	0.76	U	1.1	U	2.2	U	1.1	U	1.1	U	1.2	U	1	U	1.1	U
Vanadium	7440-62-2	mg/kg	NS	NS	NS	NS	20.4		31.1		9.3		18		25.3		24.9		33		36.2		15		14		17.5		13.4		27.9	
Zinc	7440-66-6	mg/kg	109	6600	10000	2480	215		428		16.3		115		38.8		34.4		47.8		47.6		28.4		59.5		29.5		29.7		111	

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-80(8.5-9.0)		SB-80(12-12.5)		SB-81(2.5-3.0)		SB-81(6.5-7.0)		SB-82(3.5-4.0)		SB-82(7.5-8.0)		SB-83(3-3.5)		SB-83(6-6.5)		SB-83(13.5-14)		SB-84(2.5-3.0)		SB-84(8-8.5)		SB-84(12.5-13.0)		SB-85(4.5-5.0)	
LAB SAMPLE ID:							JE18629-5		JE18629-6		JE18698-1		JE18698-2		JE18698-3		JE18698-4		JE18698-5		JE18698-6		JE18698-7		JE18698-8		JE18698-9		JE18698-10		JE18698-11	
SAMPLE DATE:							9/8/2025		9/8/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
METALS (SW846 7471B & SW846 6010D)																																
Aluminum	7429-90-5	mg/kg	NS	NS	NS	NS	3740		4450		8880		8880		4990		3860		8450		4220		5200		14900		6220		5840		15300	
Antimony	7440-36-0	mg/kg	NS	NS	NS	NS	2.3	U	2.2	U	2	U	2.1	U	2.1	U	2.2	U	2.2	U	2.3	U	2.3	U	11	U	2.1	U	2.2	U	4.4	U
Arsenic	7440-38-2	mg/kg	13	16	16	16	2.3	U	2.2	U	2	U	2.1	U	2.1	U	2.2	U	2.2	U	2.3	U	2.3	U	5		2.1	U	2.2	U	2.2	U
Barium	7440-39-3	mg/kg	410	410	410	820	33.5		41.6		20	U	24.5		41		34.3		71.2		41.5		46.5		106		66.8		45.6		94.3	
Beryllium	7440-41-7	mg/kg	4.4	43	670	47	0.23	U	0.22	U	1.1		1		0.21	U	0.28		0.32		0.23	U	0.24		0.51		0.24		0.28		0.5	
Cadmium	7440-43-9	mg/kg	2.5	2.5	3.7	7.5	0.58	U	0.55	U	0.51	U	0.53	U	0.53	U	1.1	U	0.54	U	0.56	U	0.58	U	0.53	U	0.53	U	0.55	U	0.54	U
Calcium	7440-70-2	mg/kg	NS	NS	NS	NS	1130		1810		6550		7240		1040		26200		2210		6430		15800		1590		1630		14700		875	
Chromium	7440-47-3	mg/kg	NS	NS	NS	NS	10.9		11.5		5.9		12.4		8.4		9.8		17.3		8.9		19.1		23.7		12.2		10.7		22	
Cobalt	7440-48-4	mg/kg	NS	NS	NS	NS	5.8	U	6.1		5.1	U	5.3	U	5.3	U	5.5	U	11.4		5.6	U	5.8	U	17.1		5.9		5.5	U	10.8	
Copper	7440-50-8	mg/kg	50	280	280	1720	20.6		15.6		10.1		7.9		15.5		9.2		24.1		11.5		12.4		21.7		14.2		12.6		24.6	
Iron	7439-89-6	mg/kg	NS	NS	NS	NS	10000		10000		27500		27800		9770		8220		17400		8670		10500		31500		11600		11100		24900	
Lead	7439-92-1	mg/kg	63	400	1000	450	14.5		4.3		3.2		3.9		3		2.7		11.1		2.7		2.7		17.6		3.1		3.3		5.3	
Magnesium	7439-95-4	mg/kg	NS	NS	NS	NS	1860		2420		4050		3660		1830		10200		3810		4550		9250		5190		2660		9200		5310	
Manganese	7439-96-5	mg/kg	1600	2000	10000	2000	62.7		104		294		306		210		121		415		138		270		1360		285		180		560	
Mercury	7439-97-6	mg/kg	0.18	0.3	1.1	0.73	0.029	U	0.03	U	0.033	U	0.032	U	0.035	U	0.03	U	0.032	U	0.03	U	0.035	U	0.035	U	0.031	U	0.032	U	0.034	U
Nickel	7440-02-0	mg/kg	30	320	320	130	8.9		9.2		5.3		5.8		8.8		8		16.1		9.3		14		18.9		10.6		10.7		17.9	
Potassium	7440-09-7	mg/kg	NS	NS	NS	NS	1330		1610		1000	U	1100	U	1420		1140		2000		1420		1630		2840		2240		1660		3420	
Selenium	7782-49-2	mg/kg	3.9	110	1700	4	2.3	U	2.2	U	4.1	U	4.2	U	2.1	U	2.2	U	2.2	U	2.3	U	2.3	U	11	U	2.1	U	2.2	U	4.4	U
Silver	7440-22-4	mg/kg	2	110	1700	8.3	0.58	U	0.55	U	0.51	U	0.53	U	0.53	U	0.55	U	0.54	U	0.56	U	0.58	U	0.53	U	0.53	U	0.55	U	0.54	U
Sodium	7440-23-5	mg/kg	NS	NS	NS	NS	1200	U	1100	U	1000	U	1100	U	1100	U	1100	U	1100	U	1100	U	1200	U	1100	U	1100	U	1100	U	1100	U
Thallium	7440-28-0	mg/kg	NS	NS	NS	NS	1.2	U	1.1	U	2	U	2.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.2	U	5.3	U	1.1	U	1.1	U	2.2	U
Vanadium	7440-62-2	mg/kg	NS	NS	NS	NS	16.2		17		12.3		10		12.9		13.2		26.5		12.9		18.5		41.8		18.4		15		38.7	
Zinc	7440-66-6	mg/kg	109	6600	10000	2480	22		20.3		57.3		48.2		19.1		18.9		40.9		18.6		22		51.5		32.2		25.5		57.5	

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs
Concentration Exceeds NYSDEC RRUSCOs
Concentration Exceeds NYSDEC UUSCOs
Concentration Exceeds

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

TABLE 5.4
SUMMARY OF SOIL SAMPLING RESULTS—METALS

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-85(7-7.5)		SB-85(11-11.5)		SB-85(16.5-17.0)		SB-86(4-4.5)		SB-86(6.5-7.0)		SB-87(3-3.5)		SB-87(6-6.5)		SB-87(14-14.5)		SB-88(4.5-5.0)		SB-88(6.5-7.0)		SB-88(13.5-14.0)		SB-89(2.5-3.0)		SB-89(6.5-7.0)	
LAB SAMPLE ID:							JE18698-12		JE18698-13		JE18698-14		JE18698-15		JE18698-16		JE18698-17		JE18698-18		JE18698-19		JE18798-2		JE18798-3		JE18798-4		JE18798-5		JE18798-6	
SAMPLE DATE:							9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/10/2025		9/10/2025		9/10/2025		9/10/2025		9/10/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
METALS (SW846 7471B & SW846 6010D)																																
Aluminum	7429-90-5	mg/kg	NS	NS	NS	NS	24900		4600		4500		11000		4470		4240		4120		4800		9650		3750		4490		12000		11000	
Antimony	7440-36-0	mg/kg	NS	NS	NS	NS	11	U	2.2	U	2.1	U	2.3	U	2.2	U	2.1	U	2.3	U	2.2	U	2.5	U	2.2	U	2.1	U	2.5	U	2.3	U
Arsenic	7440-38-2	mg/kg	13	16	16	16	2.3		2.2	U	2.1	U	2.3	U	2.2	U	2.1	U	2.3	U	2.2	U	2.9		2.2	U	2.1	U	7.8		2.8	
Barium	7440-39-3	mg/kg	410	410	410	820	187		51.1		46.3		48.6		40.1		33.3		54.6		49.7		45.7		36		46.8		192		83.5	
Beryllium	7440-41-7	mg/kg	4.4	43	670	47	0.22	U	0.22	U	0.21	U	0.33		0.22	U	0.21	U	0.23	U	0.22	U	0.33		0.22	U	0.21	U	0.42		0.28	
Cadmium	7440-43-9	mg/kg	2.5	2.5	3.7	7.5	0.54	U	1.1	U	0.53	U	0.57	U	0.54	U	0.51	U	0.57	U	0.54	U	0.63	U	0.54	U	0.53	U	0.94		0.56	U
Calcium	7440-70-2	mg/kg	NS	NS	NS	NS	4240		23300		17700		727		1310		794		13200		16000		988		1710		20500		2570		1440	
Chromium	7440-47-3	mg/kg	NS	NS	NS	NS	151		9.5		10.1		13.4		11.1		6.7		10.3		10.4		14.7		8.1		11.2		23		21	
Cobalt	7440-48-4	mg/kg	NS	NS	NS	NS	17.1		5.6	U	5.3	U	6.6		5.4	U	5.1	U	5.7	U	5.4	U	6.3	U	5.4	U	5.3	U	8.1		7.3	
Copper	7440-50-8	mg/kg	50	280	280	1720	14	U	9.9		10.9		12.5		10.1		9.8		9.2		11.2		5.3		10.3		12.1		45.2		20.4	
Iron	7439-89-6	mg/kg	NS	NS	NS	NS	47700		8760		9720		15600		8660		8480		11900		9520		17100		9380		9740		21200		19700	
Lead	7439-92-1	mg/kg	63	400	1000	450	2.2	U	2.6		2.8		6.3		2.5		2.6		2.7		2.6		4.5		2.5		2.3		537		66	
Magnesium	7439-95-4	mg/kg	NS	NS	NS	NS	14400		11400		9380		3970		2470		1510		8670		8700		2130		1840		8960		3500		4100	
Manganese	7439-96-5	mg/kg	1600	2000	10000	2000	713		148		169		388		238		205		330		124		346		92		159		251		333	
Mercury	7439-97-6	mg/kg	0.18	0.3	1.1	0.73	0.031	U	0.025	U	0.03	U	0.036	U	0.036	U	0.027	U	0.031	U	0.028	U	0.037		0.034	U	0.031	U	0.67		0.12	
Nickel	7440-02-0	mg/kg	30	320	320	130	37.4		8.2		10.1		10.2		9.6		7.2		8.2		8.7		7.8		7.6		8.6		14.2		14.5	
Potassium	7440-09-7	mg/kg	NS	NS	NS	NS	11300		1570		1660		1590		1630		1000	U	1580		1920		1300	U	1390		1760		1310		1760	
Selenium	7782-49-2	mg/kg	3.9	110	1700	4	11	U	2.2	U	2.1	U	2.3	U	2.2	U	2.1	U	2.3	U	2.2	U	2.5	U	2.2	U	2.1	U	2.5	U	2.3	U
Silver	7440-22-4	mg/kg	2	110	1700	8.3	0.54	U	0.56	U	0.53	U	0.57	U	0.54	U	0.51	U	0.57	U	0.54	U	0.63	U	0.54	U	0.53	U	0.62	U	0.56	U
Sodium	7440-23-5	mg/kg	NS	NS	NS	NS	1100	U	1100	U	1100	U	1100	U	1100	U	1000	U	1100	U	1100	U	1300	U	1100	U	1100	U	1200	U	1100	U
Thallium	7440-28-0	mg/kg	NS	NS	NS	NS	11	U	1.1	U	1.1	U	1.1	U	1.1	U	1	U	1.1	U	1.1	U	1.3	U	1.1	U	1.1	U	1.2	U	1.1	U
Vanadium	7440-62-2	mg/kg	NS	NS	NS	NS	108		13.4		15.7		23.5		13		11		14.8		14.3		22		11.7		14.5		30.1		27.8	
Zinc	7440-66-6	mg/kg	109	6600	10000	2480	114		20.4		18.8		28.9		18.6		15.7		19.5		21.2		53		131		187		621		93.3	

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-89(12.5-13.0)		SB-90(3.5-4.0)		SB-90(6.5-7.0)		SB-90(13-13.5)		SB-91(3.5-4.0)		SB-91(7.0-7.5)		SB-92(2.0-2.5)		SB-92(5.5-6.0)	
LAB SAMPLE ID:							JE18798-7		JE18796-1		JE18796-2		JE18796-3		JE18796-4		JE18796-5		JE18796-6		JE18796-7	
SAMPLE DATE:							9/10/2025		9/10/2025		9/10/2025		9/10/2025		9/10/2025		9/10/2025		9/10/2025		9/10/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
METALS (SW846 7471B & SW846 6010D)																						
Aluminum	7429-90-5	mg/kg	NS	NS	NS	NS	3810		5600		5060		8340		6630		3890		10600		3640	
Antimony	7440-36-0	mg/kg	NS	NS	NS	NS	2.1	U	2.1	U	2.3	U	2.2	U	2.1	U	2.2	U	2.2	U	2.2	U
Arsenic	7440-38-2	mg/kg	13	16	16	16	2.1	U	2.1	U	2.3	U	2.2	U	2.1	U	2.2	U	2.2	U	2.2	U
Barium	7440-39-3	mg/kg	410	410	410	820	40.6		45.4		47.5		67.3		43.7		37.5		72.8		35.5	
Beryllium	7440-41-7	mg/kg	4.4	43	670	47	0.21	U	0.27		0.3		0.43		0.33		0.22	U	0.33		0.22	U
Cadmium	7440-43-9	mg/kg	2.5	2.5	3.7	7.5	0.53	U	0.52	U	0.58	U	0.54	U	0.53	U	0.54	U	0.56	U	0.54	U
Calcium	7440-70-2	mg/kg	NS	NS	NS	NS	17200		1250		1920		14200		1350		1680		1390		1400	
Chromium	7440-47-3	mg/kg	NS	NS	NS	NS	8.5		9.1		11.8		17.8		15.4		8.9		17.3		10.3	
Cobalt	7440-48-4	mg/kg	NS	NS	NS	NS	5.3	U	5.2	U	5.8	U	7.2		6.4		5.4	U	8.7		5.4	U
Copper	7440-50-8	mg/kg	50	280	280	1720	9.9		13		12.2		15.1		17.1		7.9		22.7		11.6	
Iron	7439-89-6	mg/kg	NS	NS	NS	NS	8140		10500		10100		14400		14500		8180		19000		9100	
Lead	7439-92-1	mg/kg	63	400	1000	450	2.1	U	2.9		3		2.8		3.3		2.2		3.5		3	
Magnesium	7439-95-4	mg/kg	NS	NS	NS	NS	9000		1930		2720		10900		2870		2010		4180		1690	
Manganese	7439-96-5	mg/kg	1600	2000	10000	2000	104		334		71.1		212		120		58.4		293		71	
Mercury	7439-97-6	mg/kg	0.18	0.3	1.1	0.73	0.034	U	0.026	U	0.035	U	0.028	U	0.031	U	0.031	U	0.035	U	0.033	U
Nickel	7440-02-0	mg/kg	30	320	320	130	7.2		8.9		9		15		10.9		7.3		15		7.9	
Potassium	7440-09-7	mg/kg	NS	NS	NS	NS	1400		1290		1720		3150		2440		1600		2470		1430	
Selenium	7782-49-2	mg/kg	3.9	110	1700	4	2.1	U	2.1	U	2.3	U	2.2	U	2.1	U	2.2	U	2.2	U	2.2	U
Silver	7440-22-4	mg/kg	2	110	1700	8.3	0.53	U	0.52	U	0.58	U	0.54	U	0.53	U	0.54	U	0.56	U	0.54	U
Sodium	7440-23-5	mg/kg	NS	NS	NS	NS	1100	U	1000	U	1200	U	1100	U	1100	U	1100	U	1100	U	1100	U
Thallium	7440-28-0	mg/kg	NS	NS	NS	NS	1.1	U	1	U	1.2	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
Vanadium	7440-62-2	mg/kg	NS	NS	NS	NS	11.6		13.9		16.9		23		20.8		14.1		24.6		15	
Zinc	7440-66-6	mg/kg	109	6600	10000	2480	26		20.9		33.2		40.4		30.5		21.7		42.6		29	

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs
Concentration Exceeds NYSDEC RRUSCOs
Concentration Exceeds NYSDEC UUSCOs
Concentration Exceeds

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

SESI
CONSULTING ENGINEERS

REMEDIAL INVESTIGATION REPORT

TABLE 5.5
SUMMARY OF SOIL SAMPLING RESULTS—PCBs

26-28, 40, 60 East Post Road
223-225 Dr. MLK Jr. Blvd.
and Brookfield Street
White Plains, NY

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-1 (2.0-2.5)		SB-1 (5.5-6.0)		SB-1 (10.5-11.0)		SB-2 (3.0-3.5)		SB-2 (7.5-8.0)		SB-2 (12.0-12.5)		SB-3 (3.5-4.0)		SB-3 (7.5-8.0)		SB-3 (10.0-10.5)		SB-4 (2.5-3.0)		SB-4 (9.0-9.5)		SB-4 (11.0-11.5)		SB-5 (3.0-3.5)	
LAB SAMPLE ID:							L2543726-10		L2542974-06		L2543726-11		L2543726-08		L2543726-09		L2542974-07		L2543856-01		L2543856-02		L2542974-08		L2543856-03		L2542974-09		L2543856-04		L2543856-06	
SAMPLE DATE:							7/11/2025		7/9/2025		7/11/2025		7/11/2025		7/11/2025		7/9/2025		7/14/2025		7/14/2025		7/9/2025		7/14/2025		7/9/2025		7/14/2025		7/14/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PCBs (SW846 8082A)																																
Aroclor 1016	12674-11-2	mg/kg	0.1	1	1	3.2	0.0555	U	0.0516	U	0.0545	U	0.0577	U	0.0544	U	0.0556	U	0.0601	U	0.0528	U	0.0551	U	0.0541	U	0.0501	U	0.061	U	0.0509	U
Aroclor 1221	11104-28-2	mg/kg	0.1	1	1	3.2	0.0555	U	0.0516	U	0.0545	U	0.0577	U	0.0544	U	0.0556	U	0.0601	U	0.0528	U	0.0551	U	0.0541	U	0.0501	U	0.061	U	0.0509	U
Aroclor 1232	11141-16-5	mg/kg	0.1	1	1	3.2	0.0555	U	0.0516	U	0.0545	U	0.0577	U	0.0544	U	0.0556	U	0.0601	U	0.0528	U	0.0551	U	0.0541	U	0.0501	U	0.061	U	0.0509	U
Aroclor 1242	53469-21-9	mg/kg	0.1	1	1	3.2	0.0555	U	0.0516	U	0.0545	U	0.0577	U	0.0544	U	0.0556	U	0.0601	U	0.0528	U	0.0551	U	0.0541	U	0.0501	U	0.061	U	0.0509	U
Aroclor 1248	12672-29-6	mg/kg	0.1	1	1	3.2	0.0555	U	0.0516	U	0.0545	U	0.0577	U	0.0544	U	0.0556	U	0.0601	U	0.0528	U	0.0551	U	0.0541	U	0.0501	U	0.061	U	0.0509	U
Aroclor 1254	11097-69-1	mg/kg	0.1	1	1	3.2	0.0555	U	0.0516	U	0.0545	U	0.0577	U	0.0544	U	0.0556	U	0.0601	U	0.0528	U	0.0551	U	0.0541	U	0.0501	U	0.061	U	0.0509	U
Aroclor 1260	11096-82-5	mg/kg	0.1	1	1	3.2	0.0555	U	0.0516	U	0.0545	U	0.0577	U	0.0544	U	0.0556	U	0.0199	J	0.0528	U	0.0551	U	0.0541	U	0.0501	U	0.061	U	0.0509	U
Aroclor 1262	37324-23-5	mg/kg	0.1	1	1	3.2	0.0555	U	0.0516	U	0.0545	U	0.0577	U	0.0544	U	0.0556	U	0.0601	U	0.0528	U	0.0551	U	0.0541	U	0.0501	U	0.061	U	0.0509	U
Aroclor 1268	11100-14-4	mg/kg	0.1	1	1	3.2	0.0555	U	0.0516	U	0.0545	U	0.0577	U	0.0544	U	0.0556	U	0.0601	U	0.0528	U	0.0551	U	0.0541	U	0.0501	U	0.061	U	0.0509	U
PCBs, Total	1336-36-3	mg/kg	0.1	1	1	3.2	0.0555	U	0.0516	U	0.0545	U	0.0577	U	0.0544	U	0.0556	U	0.0199	J	0.0528	U	0.0551	U	0.0541	U	0.0501	U	0.061	U	0.0509	U

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-5 (8.5-9.0)		SB-5 (12.5-13.0)		SB-6 (1.0-1.5)		SB-6 (8.0-8.5)		SB-6 (10.5-11.0)		SB-7 (2.5-3.0)		SB-7 (6.0-6.5)		SB-8 (3.5-4.0)		SB-8 (8.0-8.5)		SB-8 (11.0-11.5)		SB-8 (17.5-18.0)		SB-9 (1.5-2.0)		SB-9 (6.0-6.5)	
LAB SAMPLE ID:							L2543856-07		L2542974-10		L2543726-12		L2543726-13		L2542974-11		L2542974-12		L2543856-05		L2544282-04		L2542560-02		L2544282-05		L2544282-06		L2544282-01		L2544282-02	
SAMPLE DATE:							7/14/2025		7/9/2025		7/11/2025		7/11/2025		7/9/2025		7/9/2025		7/14/2025		7/15/2025		7/8/2025		7/15/2025		7/15/2025		7/15/2025		7/15/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PCBs (SW846 8082A)																																
Aroclor 1016	12674-11-2	mg/kg	0.1	1	1	3.2	0.0478	U	0.0523	U	0.0499	U	0.0495	U	0.0493	U	0.0502	U	0.0528	U	0.0601	U	0.0506	U	0.051	U	0.0505	U	0.0535	U	0.0519	U
Aroclor 1221	11104-28-2	mg/kg	0.1	1	1	3.2	0.0478	U	0.0523	U	0.0499	U	0.0495	U	0.0493	U	0.0502	U	0.0528	U	0.0601	U	0.0506	U	0.051	U	0.0505	U	0.0535	U	0.0519	U
Aroclor 1232	11141-16-5	mg/kg	0.1	1	1	3.2	0.0478	U	0.0523	U	0.0499	U	0.0495	U	0.0493	U	0.0502	U	0.0528	U	0.0601	U	0.0506	U	0.051	U	0.0505	U	0.0535	U	0.0519	U
Aroclor 1242	53469-21-9	mg/kg	0.1	1	1	3.2	0.0478	U	0.0523	U	0.0499	U	0.0495	U	0.0493	U	0.0502	U	0.0528	U	0.0601	U	0.0506	U	0.051	U	0.0505	U	0.0535	U	0.0519	U
Aroclor 1248	12672-29-6	mg/kg	0.1	1	1	3.2	0.0478	U	0.0523	U	0.0499	U	0.0495	U	0.0493	U	0.0502	U	0.0528	U	0.0601	U	0.0506	U	0.051	U	0.0505	U	0.0535	U	0.0519	U
Aroclor 1254	11097-69-1	mg/kg	0.1	1	1	3.2	0.0478	U	0.0523	U	0.0499	U	0.0495	U	0.0493	U	0.0502	U	0.0528	U	0.0601	U	0.0506	U	0.051	U	0.0505	U	0.0535	U	0.0519	U
Aroclor 1260	11096-82-5	mg/kg	0.1	1	1	3.2	0.0478	U	0.0161	J	0.0499	U	0.019	J	0.0493	U	0.0502	U	0.0528	U	0.0601	U	0.0506	U	0.051	U	0.0505	U	0.0535	U	0.0519	U
Aroclor 1262	37324-23-5	mg/kg	0.1	1	1	3.2	0.0478	U	0.0523	U	0.0499	U	0.0495	U	0.0493	U	0.0502	U	0.0528	U	0.0601	U	0.0506	U	0.051	U	0.0505	U	0.0535	U	0.0519	U
Aroclor 1268	11100-14-4	mg/kg	0.1	1	1	3.2	0.0478	U	0.0523	U	0.0499	U	0.0495	U	0.0493	U	0.0502	U	0.0528	U	0.0601	U	0.0506	U	0.051	U	0.0505	U	0.0535	U	0.0519	U
PCBs, Total	1336-36-3	mg/kg	0.1	1	1	3.2	0.0478	U	0.0161	J	0.0499	U	0.019	J	0.0493	U	0.0502	U	0.0528	U	0.0601	U	0.0506	U	0.051	U	0.0505	U	0.0535	U	0.0519	U

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-9 (13.0-13.5)		SB-9 (16.0-16.5)		SB-10 (4.0-4.5)		SB-10 (7.0-7.5)		SB-10 (13.5-14.0)		SB-10 (15.5-16.0)		SB-11 (16.0-16.5)		SB-12 (1.5-2.0)		SB-12 (5.5-6.0)		SB-12 (13.0-13.5)		SB-12 (18.0-18.5)		SB-13 (5.0-5.5)		SB-14 (3.5-4.0)	
LAB SAMPLE ID:							L2542560-03		L2544282-03		L2542560-04		L2544282-07		L2544282-08		L2544282-09		L2542560-05		L2542560-06		L2544282-13		L2544282-14		L2544282-15		L2542974-01		L2542974-02	
SAMPLE DATE:							7/8/2025		7/15/2025		7/8/2025		7/15/2025		7/15/2025		7/15/2025		7/8/2025		7/8/2025		7/15/2025		7/15/2025		7/15/2025		7/9/2025		7/9/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PCBs (SW846 8082A)																																
Aroclor 1016	12674-11-2	mg/kg	0.1	1	1	3.2	0.0578	U	0.0509	U	0.0565	U	0.0617	U	0.0514	U	0.0564	U	0.0607	U	0.0556	U	0.0578	U	0.05	U	0.0544	U	0.0545	U	0.0581	U
Aroclor 1221	11104-28-2	mg/kg	0.1	1	1	3.2	0.0578	U	0.0509	U	0.0565	U	0.0617	U	0.0514	U	0.0564	U	0.0607	U	0.0556	U	0.0578	U	0.05	U	0.0544	U	0.0545	U	0.0581	U
Aroclor 1232	11141-16-5	mg/kg	0.1	1	1	3.2	0.0578	U	0.0509	U	0.0565	U	0.0617	U	0.0514	U	0.0564	U	0.0607	U	0.0556	U	0.0578	U	0.05	U	0.0544	U	0.0545	U	0.0581	U
Aroclor 1242	53469-21-9	mg/kg	0.1	1	1	3.2	0.0578	U	0.0509	U	0.0565	U	0.0617	U	0.0514	U	0.0564	U	0.0607	U	0.0228	J	0.0578	U	0.05	U	0.0544	U	0.0545	U	0.0581	U
Aroclor 1248	12672-29-6	mg/kg	0.1	1	1	3.2	0.0578	U	0.0509	U	0.0565	U	0.0617	U	0.0514	U	0.0564	U	0.0607	U	0.0556	U	0.0578	U	0.05	U	0.0544	U	0.0545	U	0.0581	U
Aroclor 1254	11097-69-1	mg/kg	0.1	1	1	3.2	0.0578	U	0.0509	U	0.0565	U	0.0617	U	0.0514	U	0.0564	U	0.0607	U	0.0556	U	0.0578	U	0.05	U	0.0544	U	0.0545	U	0.0581	U
Aroclor 1260	11096-82-5	mg/kg	0.1	1	1	3.2	0.0578	U	0.0509	U	0.0143	J	0.0617	U	0.0514	U	0.0564	U	0.0607	U	0.0556	U	0.0578	U	0.05	U	0.0544	U	0.0545	U	0.0581	U
Aroclor 1262	37324-23-5	mg/kg	0.1	1	1	3.2	0.0578	U	0.0509	U	0.0565	U	0.0617	U	0.0514	U	0.0564	U	0.0607	U	0.0556	U	0.0578	U	0.05	U	0.0544	U	0.0545	U	0.0581	U
Aroclor 1268	11100-14-4	mg/kg	0.1	1	1	3.2	0.0578	U	0.0509	U	0.0565	U	0.0617	U	0.0514	U	0.0564	U	0.0607	U	0.0556	U	0.0578	U	0.05	U	0.0544	U	0.0545	U	0.0106	J
PCBs, Total	1336-36-3	mg/kg	0.1	1	1	3.2	0.0578	U	0.0509	U	0.0143	J	0.0617	U	0.0514	U	0.0564	U	0.0607	U	0.0228	J	0.0578	U	0.05	U	0.0544	U	0.0545	U	0.0106	J

Notes
1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs
Concentration Exceeds NYSDEC RRUSCOs
Concentration Exceeds NYSDEC UUSCOs
Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

SESI
CONSULTING ENGINEERS

REMEDIAL INVESTIGATION REPORT

TABLE 5.5
SUMMARY OF SOIL SAMPLING RESULTS—PCBs

26-28, 40, 60 East Post Road
223-225 Dr. MLK Jr. Blvd.
and Brookfield Street
White Plains, NY

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-15 (2.5-3.0)		SB-15 (6.0-6.5)		SB-15 (12.0-12.5)		SB-15 (16.5-17.0)		SB-16 (2.0-2.5)		SB-16 (5.0-5.5)		SB-17 (3.0-3.5)		SB-18 (2.0-2.5)		SB-18 (6.5-7.0)		SB-19 (2.5-3.0)		SB-20 (3.0-3.5)		SB-21 (4.0-4.5)		SB-21 (7.0-7.5)	
LAB SAMPLE ID:							L2544282-10		L2542974-03		L2544282-11		L2544282-12		L2542974-04		L2543726-04		L2542974-05		L2543250-01		L2543726-05		L2543250-02		L2543250-03		L2543250-04		L2543726-06	
SAMPLE DATE:							7/15/2025		7/9/2025		7/15/2025		7/15/2025		7/9/2025		7/11/2025		7/9/2025		7/10/2025		7/11/2025		7/10/2025		7/10/2025		7/10/2025		7/11/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PCBs (SW846 8082A)																																
Aroclor 1016	12674-11-2	mg/kg	0.1	1	1	3.2	0.0543	U	0.0554	U	0.0579	U	0.0514	U	0.0544	U	0.0556	U	0.0521	U	0.0585	U	0.0508	U	0.0528	U	0.0509	U	0.0502	U	0.0529	U
Aroclor 1221	11104-28-2	mg/kg	0.1	1	1	3.2	0.0543	U	0.0554	U	0.0579	U	0.0514	U	0.0544	U	0.0556	U	0.0521	U	0.0585	U	0.0508	U	0.0528	U	0.0509	U	0.0502	U	0.0529	U
Aroclor 1232	11141-16-5	mg/kg	0.1	1	1	3.2	0.0543	U	0.0554	U	0.0579	U	0.0514	U	0.0544	U	0.0556	U	0.0521	U	0.0585	U	0.0508	U	0.0528	U	0.0509	U	0.0502	U	0.0529	U
Aroclor 1242	53469-21-9	mg/kg	0.1	1	1	3.2	0.0543	U	0.0554	U	0.0579	U	0.0514	U	0.0544	U	0.0556	U	0.0521	U	0.0585	U	0.0508	U	0.0528	U	0.0509	U	0.0502	U	0.0529	U
Aroclor 1248	12672-29-6	mg/kg	0.1	1	1	3.2	0.0543	U	0.0554	U	0.0579	U	0.0514	U	0.0544	U	0.0556	U	0.0521	U	0.0585	U	0.0508	U	0.0528	U	0.0509	U	0.0502	U	0.0529	U
Aroclor 1254	11097-69-1	mg/kg	0.1	1	1	3.2	0.0543	U	0.0554	U	0.0579	U	0.0514	U	0.0544	U	0.0556	U	0.0521	U	0.0585	U	0.0508	U	0.0528	U	0.012	J	0.0502	U	0.0529	U
Aroclor 1260	11096-82-5	mg/kg	0.1	1	1	3.2	0.0543	U	0.0554	U	0.0579	U	0.0514	U	0.0544	U	0.0162	J	0.0521	U	0.0585	U	0.0508	U	0.0528	U	0.0509	U	0.0502	U	0.0529	U
Aroclor 1262	37324-23-5	mg/kg	0.1	1	1	3.2	0.0543	U	0.0554	U	0.0579	U	0.0514	U	0.0544	U	0.0556	U	0.0521	U	0.0585	U	0.0508	U	0.0528	U	0.0509	U	0.0502	U	0.0529	U
Aroclor 1268	11100-14-4	mg/kg	0.1	1	1	3.2	0.0543	U	0.0554	U	0.0579	U	0.0514	U	0.0544	U	0.0556	U	0.0521	U	0.0585	U	0.0508	U	0.0528	U	0.0509	U	0.0502	U	0.0529	U
PCBs, Total	1336-36-3	mg/kg	0.1	1	1	3.2	0.0543	U	0.0554	U	0.0579	U	0.0514	U	0.0544	U	0.0162	J	0.0521	U	0.0585	U	0.0508	U	0.0528	U	0.012	J	0.0502	U	0.0529	U

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-21 (13.0-13.5)		SB-22 (1.0-1.5)		SB-22 (5.5-6.0)		SB-22 (11.5-12.0)		SB-23 (1-1.5)		SB-23 (5.5-6)		SB-24 (3.5-4)		SB-24 (7-7.5)		SB-25 (4.5-5)		SB-25 (7.5-8)		SB-25 (11-11.5)		SB-26 (4-4.5)		SB-26 (6.5-7)	
LAB SAMPLE ID:							L2543726-07		L2543726-01		L2543726-02		L2543726-03		L2547611-04		L2547611-03		L2547611-08		L2547611-09		L2547611-07		L2547611-05		L2547611-06		L2547764-15		L2547764-16	
SAMPLE DATE:							7/11/2025		7/11/2025		7/11/2025		7/11/2025		7/29/2025		7/29/2025		7/29/2025		7/29/2025		7/29/2025		7/29/2025		7/29/2025		7/30/2025		7/30/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PCBs (SW846 8082A)																																
Aroclor 1016	12674-11-2	mg/kg	0.1	1	1	3.2	0.0515	U	0.0507	U	0.0535	U	0.0607	U	0.0547	U	0.0535	U	0.0543	U	0.0499	U	0.0528	U	0.0529	U	0.0534	U	0.0579	U	0.0527	U
Aroclor 1221	11104-28-2	mg/kg	0.1	1	1	3.2	0.0515	U	0.0507	U	0.0535	U	0.0607	U	0.0547	U	0.0535	U	0.0543	U	0.0499	U	0.0528	U	0.0529	U	0.0534	U	0.0579	U	0.0527	U
Aroclor 1232	11141-16-5	mg/kg	0.1	1	1	3.2	0.0515	U	0.0507	U	0.0535	U	0.0607	U	0.0547	U	0.0535	U	0.0543	U	0.0499	U	0.0528	U	0.0529	U	0.0534	U	0.0579	U	0.0527	U
Aroclor 1242	53469-21-9	mg/kg	0.1	1	1	3.2	0.0515	U	0.0507	U	0.0535	U	0.0607	U	0.0547	U	0.0535	U	0.0543	U	0.0499	U	0.0528	U	0.0529	U	0.0534	U	0.0579	U	0.0527	U
Aroclor 1248	12672-29-6	mg/kg	0.1	1	1	3.2	0.0515	U	0.0507	U	0.0535	U	0.0607	U	0.0547	U	0.0535	U	0.0543	U	0.0499	U	0.0528	U	0.0529	U	0.0534	U	0.0579	U	0.0527	U
Aroclor 1254	11097-69-1	mg/kg	0.1	1	1	3.2	0.0515	U	0.0507	U	0.0535	U	0.0607	U	0.0547	U	0.0535	U	0.0343	J	0.0499	U	0.0528	U	0.0529	U	0.0534	U	0.0579	U	0.0527	U
Aroclor 1260	11096-82-5	mg/kg	0.1	1	1	3.2	0.0515	U	0.0507	U	0.0535	U	0.0607	U	0.0248	J	0.0535	U	0.0543	U	0.0499	U	0.0528	U	0.0529	U	0.0534	U	0.0579	U	0.0527	U
Aroclor 1262	37324-23-5	mg/kg	0.1	1	1	3.2	0.0515	U	0.0507	U	0.0535	U	0.0607	U	0.0547	U	0.0535	U	0.0543	U	0.0499	U	0.0528	U	0.0529	U	0.0534	U	0.0579	U	0.0527	U
Aroclor 1268	11100-14-4	mg/kg	0.1	1	1	3.2	0.0515	U	0.0507	U	0.0535	U	0.0607	U	0.0547	U	0.0535	U	0.00951	J	0.0499	U	0.0528	U	0.0529	U	0.0534	U	0.0579	U	0.0527	U
PCBs, Total	1336-36-3	mg/kg	0.1	1	1	3.2	0.0515	U	0.0507	U	0.0535	U	0.0607	U	0.0248	J	0.0535	U	0.0438	J	0.0499	U	0.0528	U	0.0529	U	0.0534	U	0.0579	U	0.0527	U

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-26 (12-12.5)		SB-27 (3-3.5)		SB-27 (7-7.5)		SB-27 (10-10.5)		SB-28 (1-1.5)		SB-28 (8-8.5)		SB-28 (10-10.5)		SB-29 (2.5-3)		SB-29 (8-8.5)		SB-29 (10.5-11)		SB-30 (2.5-3)		SB-30 (7.5-8)		SB-30 (10.5-11)	
LAB SAMPLE ID:							L2547764-17		L2547764-12		L2547764-14		L2547764-13		L2547764-09		L2547764-10		L2547764-11		L2547764-06		L2547764-07		L2547764-08		L2548308-07		L2548308-08		L2548308-09	
SAMPLE DATE:							7/30/2025		7/30/2025		7/30/2025		7/30/2025		7/30/2025		7/30/2025		7/30/2025		7/30/2025		7/30/2025		7/30/2025		7/31/2025		7/31/2025		7/31/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PCBs (SW846 8082A)																																
Aroclor 1016	12674-11-2	mg/kg	0.1	1	1	3.2	0.0592	U	0.058	U	0.0579	U	0.0533	U	0.0538	U	0.0564	U	0.0536	U	0.0575	U	0.0535	U	0.0501	U	0.0528	U	0.052	U	0.0538	U
Aroclor 1221	11104-28-2	mg/kg	0.1	1	1	3.2	0.0592	U	0.058	U	0.0579	U	0.0533	U	0.0538	U	0.0564	U	0.0536	U	0.0575	U	0.0535	U	0.0501	U	0.0528	U	0.052	U	0.0538	U
Aroclor 1232	11141-16-5	mg/kg	0.1	1	1	3.2	0.0592	U	0.058	U	0.0579	U	0.0533	U	0.0538	U	0.0564	U	0.0536	U	0.0575	U	0.0535	U	0.0501	U	0.0528	U	0.052	U	0.0538	U
Aroclor 1242	53469-21-9	mg/kg	0.1	1	1	3.2	0.0592	U	0.058	U	0.0579	U	0.0533	U	0.0538	U	0.0564	U	0.0536	U	0.0575	U	0.0535	U	0.0501	U	0.0528	U	0.052	U	0.0538	U
Aroclor 1248	12672-29-6	mg/kg	0.1	1	1	3.2	0.0592	U	0.058	U	0.0579	U	0.0533	U	0.0538	U	0.0564	U	0.0536	U	0.0575	U	0.0535	U	0.0501	U	0.0528	U	0.052	U	0.0538	U
Aroclor 1254	11097-69-1	mg/kg	0.1	1	1	3.2	0.0592	U	0.058	U	0.0579	U	0.0533	U	0.0538	U	0.0564	U	0.0536	U	0.0575	U	0.0535	U	0.0501	U	0.0528	U	0.052	U	0.0538	U
Aroclor 1260	11096-82-5	mg/kg	0.1	1	1	3.2	0.0592	U	0.058	U	0.0579	U	0.0533	U	0.0204	J	0.0564	U	0.0536	U	0.0575	U	0.029	J	0.0109	J	0.0202	J	0.052	U	0.0538	U
Aroclor 1262	37324-23-5	mg/kg	0.1	1	1	3.2	0.0592	U	0.058	U	0.0579	U	0.0533	U	0.0538	U	0.0564	U	0.0536	U	0.0575	U	0.0535	U	0.0501	U	0.0528	U	0.052	U	0.0538	U
Aroclor 1268	11100-14-4	mg/kg	0.1	1	1	3.2	0.0592	U	0.058	U	0.0579	U	0.0533	U	0.0538	U	0.0564	U	0.0536	U	0.0575	U	0.0535	U	0.0501	U	0.0528	U	0.052	U	0.0538	U
PCBs, Total	1336-36-3	mg/kg	0.1	1	1	3.2	0.0592	U	0.058	U	0.0579	U	0.0533	U	0.0204	J	0.0564	U	0.0536	U	0.0575	U	0.029	J	0.0109	J	0.0202	J	0.052	U	0.0538	U

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs

Concentration Exceeds NYSDEC RRUSCOs

Concentration Exceeds NYSDEC UUSCOs

Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

SESI
CONSULTING ENGINEERS

REMEDIAL INVESTIGATION REPORT

TABLE 5.5
SUMMARY OF SOIL SAMPLING RESULTS—PCBs

26-28, 40, 60 East Post Road
223-225 Dr. MLK Jr. Blvd.
and Brookfield Street
White Plains, NY

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-31 (4.5-5.0)		SB-31 (9.5-10)		SB-31 (10.5-11)		SB-32 (1-1.5)		SB-32 (4-4.5)		SB-32 (13.5-14)		SB-33 (4-4.5)		SB-33 (6-6.5)		SB-33 (11.5-12)		SB-34 (2.5-3)		SB-34 (7-7.5)		SB-34 (10.5-11)		SB-35 (0.5-1)	
LAB SAMPLE ID:							L2548308-10		L2548308-12		L2548308-11		L2548308-14		L2548308-13		L2548308-15		L2548308-16		L2548308-17		L2548308-18		L2548308-04		L2548308-05		L2548308-06		L2548308-01	
SAMPLE DATE:							7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PCBs (SW846 8082A)																																
Aroclor 1016	12674-11-2	mg/kg	0.1	1	1	3.2	0.0527	U	0.0539	U	0.0523	U	0.0532	U	0.0525	U	0.0536	U	0.0513	U	0.0504	U	0.0534	U	0.051	U	0.0517	U	0.0544	U	0.0504	U
Aroclor 1221	11104-28-2	mg/kg	0.1	1	1	3.2	0.0527	U	0.0539	U	0.0523	U	0.0532	U	0.0525	U	0.0536	U	0.0513	U	0.0504	U	0.0534	U	0.051	U	0.0517	U	0.0544	U	0.0504	U
Aroclor 1232	11141-16-5	mg/kg	0.1	1	1	3.2	0.0527	U	0.0539	U	0.0523	U	0.0532	U	0.0525	U	0.0536	U	0.0513	U	0.0504	U	0.0534	U	0.051	U	0.0517	U	0.0544	U	0.0504	U
Aroclor 1242	53469-21-9	mg/kg	0.1	1	1	3.2	0.0527	U	0.0539	U	0.0523	U	0.0532	U	0.0525	U	0.0536	U	0.0513	U	0.0504	U	0.0534	U	0.0537		0.0517	U	0.0544	U	0.0504	U
Aroclor 1248	12672-29-6	mg/kg	0.1	1	1	3.2	0.0527	U	0.0539	U	0.0523	U	0.0532	U	0.0525	U	0.0536	U	0.0513	U	0.0504	U	0.0534	U	0.051	U	0.0517	U	0.0544	U	0.0504	U
Aroclor 1254	11097-69-1	mg/kg	0.1	1	1	3.2	0.0527	U	0.0539	U	0.0523	U	0.0532	U	0.0525	U	0.0536	U	0.0513	U	0.0504	U	0.0534	U	0.051	U	0.0517	U	0.0544	U	0.0504	U
Aroclor 1260	11096-82-5	mg/kg	0.1	1	1	3.2	0.0527	U	0.0141	J	0.0523	U	0.0532	U	0.0525	U	0.0536	U	0.0513	U	0.0504	U	0.0534	U	0.109		0.0517	U	0.0544	U	0.151	
Aroclor 1262	37324-23-5	mg/kg	0.1	1	1	3.2	0.0527	U	0.0539	U	0.0523	U	0.0532	U	0.0525	U	0.0536	U	0.0513	U	0.0504	U	0.0534	U	0.051	U	0.0517	U	0.0544	U	0.0504	U
Aroclor 1268	11100-14-4	mg/kg	0.1	1	1	3.2	0.0527	U	0.0539	U	0.0523	U	0.0532	U	0.0525	U	0.0536	U	0.0513	U	0.0504	U	0.0534	U	0.051	U	0.0517	U	0.0544	U	0.0504	U
PCBs, Total	1336-36-3	mg/kg	0.1	1	1	3.2	0.0527	U	0.0141	J	0.0523	U	0.0532	U	0.0525	U	0.0536	U	0.0513	U	0.0504	U	0.0534	U	0.163		0.0517	U	0.0544	U	0.151	

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-35 (9-9.5)		SB-35 (11.5-12)		SB-36 (4-5)		SB-36 (8-9)		SB-37 (4-4.5)		SB-37 (8.5-9)		SB-37 (11.5-12)		SB-37 (17-17.5)		SB-38 (2-2.5)		SB-38 (5.5-6)		SB-38 (12.5-13)		SB-38 (16.5-17)		SB-39 (2.5-3)	
LAB SAMPLE ID:							L2548308-02		L2548308-03		L2548397-02		L2548397-01		L2548309-03		L2548309-02		L2548309-04		L2548309-01		L2547764-02		L2547764-03		L2547764-04		L2547764-05		L2548309-05	
SAMPLE DATE:							7/31/2025		7/31/2025		8/1/2025		8/1/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/30/2025		7/30/2025		7/30/2025		7/30/2025		7/31/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PCBs (SW846 8082A)																																
Aroclor 1016	12674-11-2	mg/kg	0.1	1	1	3.2	0.0552	U	0.0553	U	0.0502	U	0.0541	U	0.0512	U	0.0647	U	0.0537	U	0.0511	U	0.0578	U	0.0606	U	0.0528	U	0.0526	U	0.0528	U
Aroclor 1221	11104-28-2	mg/kg	0.1	1	1	3.2	0.0552	U	0.0553	U	0.0502	U	0.0541	U	0.0512	U	0.0647	U	0.0537	U	0.0511	U	0.0578	U	0.0606	U	0.0528	U	0.0526	U	0.0528	U
Aroclor 1232	11141-16-5	mg/kg	0.1	1	1	3.2	0.0552	U	0.0553	U	0.0502	U	0.0541	U	0.0512	U	0.0647	U	0.0537	U	0.0511	U	0.0578	U	0.0606	U	0.0528	U	0.0526	U	0.0528	U
Aroclor 1242	53469-21-9	mg/kg	0.1	1	1	3.2	0.0552	U	0.0553	U	0.0502	U	0.0541	U	0.0512	U	0.0647	U	0.0537	U	0.0511	U	0.0578	U	0.0606	U	0.0528	U	0.0526	U	0.0528	U
Aroclor 1248	12672-29-6	mg/kg	0.1	1	1	3.2	0.0552	U	0.0553	U	0.0502	U	0.0541	U	0.0512	U	0.0647	U	0.0537	U	0.0511	U	0.0578	U	0.0606	U	0.0528	U	0.0526	U	0.0528	U
Aroclor 1254	11097-69-1	mg/kg	0.1	1	1	3.2	0.0552	U	0.0553	U	0.0502	U	0.0541	U	0.0512	U	0.0647	U	0.0537	U	0.0511	U	0.0578	U	0.0606	U	0.0528	U	0.0526	U	0.0528	U
Aroclor 1260	11096-82-5	mg/kg	0.1	1	1	3.2	0.0552	U	0.0553	U	0.0502	U	0.0541	U	0.0512	U	0.0647	U	0.0537	U	0.0511	U	0.0578	U	0.0606	U	0.0528	U	0.0526	U	0.0528	U
Aroclor 1262	37324-23-5	mg/kg	0.1	1	1	3.2	0.0552	U	0.0553	U	0.0502	U	0.0541	U	0.0512	U	0.0647	U	0.0537	U	0.0511	U	0.0578	U	0.0606	U	0.0528	U	0.0526	U	0.0528	U
Aroclor 1268	11100-14-4	mg/kg	0.1	1	1	3.2	0.0552	U	0.0553	U	0.0502	U	0.0541	U	0.0512	U	0.0647	U	0.0537	U	0.0511	U	0.0578	U	0.0606	U	0.0528	U	0.0526	U	0.0528	U
PCBs, Total	1336-36-3	mg/kg	0.1	1	1	3.2	0.0552	U	0.0553	U	0.0502	U	0.0541	U	0.0512	U	0.0647	U	0.0537	U	0.0511	U	0.0578	U	0.0606	U	0.0528	U	0.0526	U	0.0528	U

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-39 (9.5-10)		SB-39 (14-14.5)		SB-39 (15.5-16)		SB-40 (1-1.5)		SB-40 (8-9)		SB-40 (13.5-14)		SB-41 (0.5-1.5)		SB-41 (7-8)		SB-42 (3-4)		SB-42 (8-9)		SB-43 (0.5-1.5)		SB-43 (9-10)		SB-44 (2-3)	
LAB SAMPLE ID:							L2548309-06		L2548309-07		L2548309-09		L2550303-01		L2550303-02		L2550303-03		L2550303-04		L2550303-05		L2550303-06		L2550303-07		L2550303-08		L2550303-09		L2553523-01	
SAMPLE DATE:							7/31/2025		7/31/2025		7/31/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PCBs (SW846 8082A)																																
Aroclor 1016	12674-11-2	mg/kg	0.1	1	1	3.2	0.0513	U	0.0522	U	0.0513	U	0.0516	U	0.0605	U	0.0629	U	0.0485	U	0.0534	U	0.0486	U	0.0551	U	0.0514	U	0.0633	U	0.0524	U
Aroclor 1221	11104-28-2	mg/kg	0.1	1	1	3.2	0.0513	U	0.0522	U	0.0513	U	0.0516	U	0.0605	U	0.0629	U	0.0485	U	0.0534	U	0.0486	U	0.0551	U	0.0514	U	0.0633	U	0.0524	U
Aroclor 1232	11141-16-5	mg/kg	0.1	1	1	3.2	0.0513	U	0.0522	U	0.0513	U	0.0516	U	0.0605	U	0.0629	U	0.0485	U	0.0534	U	0.0486	U	0.0551	U	0.0514	U	0.0633	U	0.0524	U
Aroclor 1242	53469-21-9	mg/kg	0.1	1	1	3.2	0.0513	U	0.0522	U	0.0513	U	0.0516	U	0.0605	U	0.0629	U	0.0485	U	0.0534	U	0.0486	U	0.0551	U	0.0514	U	0.0633	U	0.0524	U
Aroclor 1248	12672-29-6	mg/kg	0.1	1	1	3.2	0.0513	U	0.0522	U	0.0513	U	0.0516	U	0.0605	U	0.0629	U	0.0485	U	0.0534	U	0.0486	U	0.0551	U	0.0514	U	0.0633	U	0.0524	U
Aroclor 1254	11097-69-1	mg/kg	0.1	1	1	3.2	0.0513	U	0.0522	U	0.0513	U	0.0516	U	0.0605	U	0.0157	J	0.0485	U	0.0534	U	0.0486	U	0.0551	U	0.0514	U	0.0633	U	0.0524	U
Aroclor 1260	11096-82-5	mg/kg	0.1	1	1	3.2	0.0513	U	0.0522	U	0.0513	U	0.0516	U	0.0605	U	0.0377	J	0.0485	U	0.0151	J	0.0486	U	0.0551	U	0.0514	U	0.016	J	0.0155	J
Aroclor 1262	37324-23-5	mg/kg	0.1	1	1	3.2	0.0513	U	0.0522	U	0.0513	U	0.0516	U	0.0605	U	0.0629	U	0.0485	U	0.0534	U	0.0486	U	0.0551	U	0.0514	U	0.0633	U	0.0524	U
Aroclor 1268	11100-14-4	mg/kg	0.1	1	1	3.2	0.0513	U	0.0522	U	0.0513	U	0.0516	U	0.0605	U	0.0629	U	0.0485	U	0.0534	U	0.0486	U	0.0551	U	0.0514	U	0.0633	U	0.0524	U
PCBs, Total	1336-36-3	mg/kg	0.1	1	1	3.2	0.0513	U	0.0522	U	0.0513	U	0.0516	U	0.0605	U	0.0534	J	0.0485	U	0.0151	J	0.0486	U	0.0551	U	0.0514	U	0.016	J	0.0155	J

Notes
1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs
Concentration Exceeds NYSDEC RRUSCOs
Concentration Exceeds NYSDEC UUSCOs
Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

TABLE 5.5
SUMMARY OF SOIL SAMPLING RESULTS—PCBs

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-45 (1-2)		SB-45 (9-10)		SB-46 (1-2)		SB-46 (7-8)		SB-47 (4-5)		SB-47 (9-10)		SB-50 (4-5)		SB-50 (6.5-7.5)		SB-51 (2-3)		SB-51 (9-10)		SB-52 (2-3)		SB-52 (7.5-8.5)		SB-56 (1-2)	
LAB SAMPLE ID:							L2550303-11		L2550303-12		L2553533-01		L2553533-02		L2553536-01		L2553536-02		L2550303-22		L2550303-23		L2550303-24		L2550303-25		L2553523-02		L2553523-03		L2550665-01	
SAMPLE DATE:							8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/12/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PCBs (SW846 8082A)																																
Aroclor 1016	12674-11-2	mg/kg	0.1	1	1	3.2	0.0524	U	0.0534	U	0.0511	U	0.0512	U	0.0534	U	0.0516	U	0.0548	U	0.0496	U	0.0591	U	0.061	U	0.051	U	0.0553	U	0.0503	U
Aroclor 1221	11104-28-2	mg/kg	0.1	1	1	3.2	0.0524	U	0.0534	U	0.0511	U	0.0512	U	0.0534	U	0.0516	U	0.0548	U	0.0496	U	0.0591	U	0.061	U	0.051	U	0.0553	U	0.0503	U
Aroclor 1232	11141-16-5	mg/kg	0.1	1	1	3.2	0.0524	U	0.0534	U	0.0511	U	0.0512	U	0.0534	U	0.0516	U	0.0548	U	0.0496	U	0.0591	U	0.061	U	0.051	U	0.0553	U	0.0503	U
Aroclor 1242	53469-21-9	mg/kg	0.1	1	1	3.2	0.0524	U	0.0534	U	0.0511	U	0.0512	U	0.0534	U	0.0516	U	0.0548	U	0.0496	U	0.0591	U	0.061	U	0.051	U	0.0553	U	0.0503	U
Aroclor 1248	12672-29-6	mg/kg	0.1	1	1	3.2	0.0524	U	0.0534	U	0.0511	U	0.0512	U	0.0534	U	0.0516	U	0.0548	U	0.0496	U	0.0591	U	0.061	U	0.051	U	0.0553	U	0.0503	U
Aroclor 1254	11097-69-1	mg/kg	0.1	1	1	3.2	0.0524	U	0.0534	U	0.0511	U	0.0512	U	0.0534	U	0.0516	U	0.0548	U	0.0496	U	0.0591	U	0.061	U	0.0106	J	0.0553	U	0.0503	U
Aroclor 1260	11096-82-5	mg/kg	0.1	1	1	3.2	0.0246	J	0.0534	U	0.0511	U	0.0512	U	0.0534	U	0.0516	U	0.0548	U	0.0496	U	0.0591	U	0.061	U	0.051	U	0.0553	U	0.0503	U
Aroclor 1262	37324-23-5	mg/kg	0.1	1	1	3.2	0.0524	U	0.0534	U	0.0511	U	0.0512	U	0.0534	U	0.0516	U	0.0548	U	0.0496	U	0.0591	U	0.061	U	0.051	U	0.0553	U	0.0503	U
Aroclor 1268	11100-14-4	mg/kg	0.1	1	1	3.2	0.00781	J	0.0534	U	0.0511	U	0.0512	U	0.0534	U	0.0516	U	0.0548	U	0.0496	U	0.0591	U	0.061	U	0.051	U	0.0553	U	0.0503	U
PCBs, Total	1336-36-3	mg/kg	0.1	1	1	3.2	0.0324	J	0.0534	U	0.0511	U	0.0512	U	0.0534	U	0.0516	U	0.0548	U	0.0496	U	0.0591	U	0.061	U	0.0106	J	0.0553	U	0.0503	U

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-56 (9-10)		SB-56 (11-12)		SB-57 (1-2)		SB-57 (7.5-8.5)		SB-57 (10-11)		SB-58 (4-5)		SB-58 (7.5-8.5)		SB-59 (1-2)		SB-60 (2-3)		SB-60 (6-7)		SB-61 (1-2)		SB-61 (5-6)		SB-62 (4-5)	
LAB SAMPLE ID:							L2550665-02		L2550665-03		L2550665-04		L2550665-05		L2550665-06		L2550665-07		L2550665-08		L2550665-09		L2550665-10		L2550665-11		L2550665-12		L2550665-13		L2550665-14	
SAMPLE DATE:							8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PCBs (SW846 8082A)																																
Aroclor 1016	12674-11-2	mg/kg	0.1	1	1	3.2	0.0528	U	0.0558	U	0.0546	U	0.0543	U	0.0518	U	0.0512	U	0.0519	U	0.0489	U	0.0491	U	0.0512	U	0.0544	U	0.0536	U	0.0547	U
Aroclor 1221	11104-28-2	mg/kg	0.1	1	1	3.2	0.0528	U	0.0558	U	0.0546	U	0.0543	U	0.0518	U	0.0512	U	0.0519	U	0.0489	U	0.0491	U	0.0512	U	0.0544	U	0.0536	U	0.0547	U
Aroclor 1232	11141-16-5	mg/kg	0.1	1	1	3.2	0.0528	U	0.0558	U	0.0546	U	0.0543	U	0.0518	U	0.0512	U	0.0519	U	0.0489	U	0.0491	U	0.0512	U	0.0544	U	0.0536	U	0.0547	U
Aroclor 1242	53469-21-9	mg/kg	0.1	1	1	3.2	0.0528	U	0.0558	U	0.0546	U	0.0543	U	0.0518	U	0.0512	U	0.0519	U	0.0489	U	0.0491	U	0.0512	U	0.0544	U	0.0536	U	0.0547	U
Aroclor 1248	12672-29-6	mg/kg	0.1	1	1	3.2	0.0528	U	0.0558	U	0.0546	U	0.0543	U	0.0518	U	0.0512	U	0.0519	U	0.0489	U	0.0491	U	0.0512	U	0.0544	U	0.0536	U	0.0547	U
Aroclor 1254	11097-69-1	mg/kg	0.1	1	1	3.2	0.0528	U	0.0558	U	0.0546	U	0.0543	U	0.0518	U	0.0512	U	0.0519	U	0.0489	U	0.0491	U	0.0512	U	0.0135	J	0.0068	J	0.0547	U
Aroclor 1260	11096-82-5	mg/kg	0.1	1	1	3.2	0.0528	U	0.0558	U	0.0546	U	0.0543	U	0.0518	U	0.0512	U	0.0519	U	0.0489	U	0.0491	U	0.0512	U	0.0544	U	0.0536	U	0.0547	U
Aroclor 1262	37324-23-5	mg/kg	0.1	1	1	3.2	0.0528	U	0.0558	U	0.0546	U	0.0543	U	0.0518	U	0.0512	U	0.0519	U	0.0489	U	0.0491	U	0.0512	U	0.0544	U	0.0536	U	0.0547	U
Aroclor 1268	11100-14-4	mg/kg	0.1	1	1	3.2	0.0528	U	0.0558	U	0.0546	U	0.0543	U	0.0518	U	0.0512	U	0.0519	U	0.0489	U	0.0491	U	0.0512	U	0.0544	U	0.0536	U	0.0547	U
PCBs, Total	1336-36-3	mg/kg	0.1	1	1	3.2	0.0528	U	0.0558	U	0.0546	U	0.0543	U	0.0518	U	0.0512	U	0.0519	U	0.0489	U	0.0491	U	0.0512	U	0.0135	J	0.0068	J	0.0547	U

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-62 (6-7)		SB-63 (2-3)		SB-63 (7-8)		SB-64 (2-3)		SB-64 (7.5-8.5)		SB-65 (1-2)		SB-65 (6-7)		SB-66 (0.5-1.5)		SB-66 (8.75-9.75)		SB-68 (2.25-3.25)		SB-68 (5-6)		SB-69 (1-2)		SB-69 (8.75-9.75)	
LAB SAMPLE ID:							L2550665-15		L2553571-01		L2553571-02		L2553571-03		L2553571-04		L2550665-20		L2550665-21		L2553509-01		L2553509-02		L2551038-01		L2551038-02		L2551038-03		L2551038-04	
SAMPLE DATE:							8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/13/2025		8/13/2025		8/13/2025		8/13/2025		8/13/2025		8/13/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PCBs (SW846 8082A)																																
Aroclor 1016	12674-11-2	mg/kg	0.1	1	1	3.2	0.051	U	0.0598	U	0.0531	U	0.0512	U	0.0501	U	0.0566	U	0.0511	U	0.0605	U	0.056	U	0.0535	U	0.0502	U	0.0495	U	0.0516	U
Aroclor 1221	11104-28-2	mg/kg	0.1	1	1	3.2	0.051	U	0.0598	U	0.0531	U	0.0512	U	0.0501	U	0.0566	U	0.0511	U	0.0605	U	0.056	U	0.0535	U	0.0502	U	0.0495	U	0.0516	U
Aroclor 1232	11141-16-5	mg/kg	0.1	1	1	3.2	0.051	U	0.0598	U	0.0531	U	0.0512	U	0.0501	U	0.0566	U	0.0511	U	0.0605	U	0.056	U	0.0535	U	0.0502	U	0.0495	U	0.0516	U
Aroclor 1242	53469-21-9	mg/kg	0.1	1	1	3.2	0.051	U	0.0598	U	0.0531	U	0.0512	U	0.0501	U	0.0566	U	0.0511	U	0.0605	U	0.056	U	0.0535	U	0.0502	U	0.0495	U	0.0516	U
Aroclor 1248	12672-29-6	mg/kg	0.1	1	1	3.2	0.051	U	0.0598	U	0.0531	U	0.0512	U	0.0501	U	0.0566	U	0.0511	U	0.0605	U	0.056	U	0.0535	U	0.0502	U	0.0495	U	0.0516	U
Aroclor 1254	11097-69-1	mg/kg	0.1	1	1	3.2	0.051	U	0.0598	U	0.0531	U	0.0125	J	0.0501	U	0.0566	U	0.0511	U	0.0605	U	0.056	U	0.0535	U	0.0502	U	0.0495	U	0.0516	U
Aroclor 1260	11096-82-5	mg/kg	0.1	1	1	3.2	0.051	U	0.0598	U	0.0531	U	0.0512	U	0.0501	U	0.0566	U	0.0511	U	0.0605	U	0.056	U	0.0535	U	0.0502	U	0.0495	U	0.0516	U
Aroclor 1262	37324-23-5	mg/kg	0.1	1	1	3.2	0.051	U	0.0598	U	0.0531	U	0.0512	U	0.0501	U	0.0566	U	0.0511	U	0.0605	U	0.056	U	0.0535	U	0.0502	U	0.0495	U	0.0516	U
Aroclor 1268	11100-14-4	mg/kg	0.1	1	1	3.2	0.051	U	0.0203	J	0.0531	U	0.0512	U	0.0501	U	0.0566	U	0.0511	U	0.0605	U	0.056	U	0.0535	U	0.0502	U	0.0495	U	0.0516	U
PCBs, Total	1336-36-3	mg/kg	0.1	1	1	3.2	0.051	U	0.0203	J	0.0531	U	0.0125	J	0.0501	U	0.0566	U	0.0511	U	0.0605	U	0.056	U	0.0535	U	0.0502	U	0.0495	U	0.0516	U

Notes
1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs
Concentration Exceeds NYSDEC RRUSCOs
Concentration Exceeds NYSDEC UUSCOs
Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

SESI
CONSULTING ENGINEERS

REMEDIAL INVESTIGATION REPORT

TABLE 5.5
SUMMARY OF SOIL SAMPLING RESULTS—PCBs

26-28, 40, 60 East Post Road
223-225 Dr. MLK Jr. Blvd.
and Brookfield Street
White Plains, NY

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-70 (3.5-4.5)		SB-70 (9-10)		SB-71 (1-2)		SB-71 (8-9)		SB-71(2.0-2.5)		SB-71(8.5-9.0)		SB-72(2.0-2.5)		SB-72(5.5-6.0)		SB-73(1.5-2.0)		SB-73(8.0-8.5)		SB-73(12.5-13)		SB-74 (2.5-3.0)		SB-74 (6.5-7.0)	
LAB SAMPLE ID:							L2551038-05		L2551038-06		L2551039-04		L2551039-05		JE18375-1		JE18375-2		JE18375-8		JE18375-9		JE18375-3		JE18375-4		JE18375-5		JE18488-9		JE18488-10	
SAMPLE DATE:							8/13/2025		8/13/2025		8/13/2025		8/13/2025		9/4/2025		9/4/2025		9/4/2025		9/4/2025		9/4/2025		9/4/2025		9/4/2025		9/5/2025		9/5/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PCBs (SW846 8082A)																																
Aroclor 1016	12674-11-2	mg/kg	0.1	1	1	3.2	0.0504	U	0.0559	U	0.0521	U	0.0545	U	0.034	U	0.033	U	0.035	U	0.032	U	0.038	U	0.036	U	0.032	U	0.032	U	0.034	U
Aroclor 1221	11104-28-2	mg/kg	0.1	1	1	3.2	0.0504	U	0.0559	U	0.0521	U	0.0545	U	0.034	U	0.033	U	0.035	U	0.032	U	0.038	U	0.036	U	0.032	U	0.032	U	0.034	U
Aroclor 1232	11141-16-5	mg/kg	0.1	1	1	3.2	0.0504	U	0.0559	U	0.0521	U	0.0545	U	0.034	U	0.033	U	0.035	U	0.032	U	0.038	U	0.036	U	0.032	U	0.032	U	0.034	U
Aroclor 1242	53469-21-9	mg/kg	0.1	1	1	3.2	0.0504	U	0.0559	U	0.0521	U	0.0545	U	0.034	U	0.033	U	0.035	U	0.032	U	0.038	U	0.036	U	0.032	U	0.032	U	0.034	U
Aroclor 1248	12672-29-6	mg/kg	0.1	1	1	3.2	0.0504	U	0.0559	U	0.0521	U	0.0545	U	0.034	U	0.033	U	0.035	U	0.032	U	0.038	U	0.036	U	0.032	U	0.032	U	0.034	U
Aroclor 1254	11097-69-1	mg/kg	0.1	1	1	3.2	0.0504	U	0.0559	U	0.0521	U	0.0545	U	0.034	U	0.033	U	0.035	U	0.032	U	0.038	U	0.036	U	0.032	U	0.032	U	0.034	U
Aroclor 1260	11096-82-5	mg/kg	0.1	1	1	3.2	0.0504	U	0.0559	U	0.0289	J	0.0545	U	0.034	U	0.033	U	0.035	U	0.032	U	0.038	U	0.036	U	0.032	U	0.032	U	0.034	U
Aroclor 1262	37324-23-5	mg/kg	0.1	1	1	3.2	0.0504	U	0.0559	U	0.0521	U	0.0545	U	0.034	U	0.033	U	0.035	U	0.032	U	0.038	U	0.036	U	0.032	U	0.032	U	0.034	U
Aroclor 1268	11100-14-4	mg/kg	0.1	1	1	3.2	0.0504	U	0.0559	U	0.0171	J	0.0545	U	0.034	U	0.033	U	0.035	U	0.032	U	0.038	U	0.036	U	0.032	U	0.032	U	0.034	U
PCBs, Total	1336-36-3	mg/kg	0.1	1	1	3.2	0.0504	U	0.0559	U	0.046	J	0.0545	U	-		-		-		-		-		-		-		-		-	

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-74 (13.5-14.0)		SB-74 (16.5-17.0)		SB-75 (3.0-3.5)		SB-75 (6.5-7.0)		SB-75 (12.0-12.5)		SB-75 (18.0-18.5)		SB-76 (2.0-2.5)		SB-76 (5.5-6.0)		SB-76 (12.5-13.0)		SB-76 (17.5-18.0)		SB-77(2.0-2.5)		SB-77(9.0-9.5)		SB-77(12.5-13)	
LAB SAMPLE ID:							JE18488-11		JE18488-12		JE18488-5		JE18488-6		JE18488-7		JE18488-8		JE18488-1		JE18488-2		JE18488-3		JE18488-4		JE18629-1		JE18629-2		JE18629-3	
SAMPLE DATE:							9/5/2025		9/5/2025		9/5/2025		9/5/2025		9/5/2025		9/5/2025		9/5/2025		9/5/2025		9/5/2025		9/5/2025		9/8/2025		9/8/2025		9/8/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PCBs (SW846 8082A)																																
Aroclor 1016	12674-11-2	mg/kg	0.1	1	1	3.2	0.036	U	0.033	U	0.035	U	0.037	U	0.034	U	0.035	U	0.035	U	0.036	U	0.033	U	0.032	U	0.036	U	0.034	U	0.038	U
Aroclor 1221	11104-28-2	mg/kg	0.1	1	1	3.2	0.036	U	0.033	U	0.035	U	0.037	U	0.034	U	0.035	U	0.035	U	0.036	U	0.033	U	0.032	U	0.036	U	0.034	U	0.038	U
Aroclor 1232	11141-16-5	mg/kg	0.1	1	1	3.2	0.036	U	0.033	U	0.035	U	0.037	U	0.034	U	0.035	U	0.035	U	0.036	U	0.033	U	0.032	U	0.036	U	0.034	U	0.038	U
Aroclor 1242	53469-21-9	mg/kg	0.1	1	1	3.2	0.036	U	0.033	U	0.035	U	0.037	U	0.034	U	0.035	U	0.035	U	0.036	U	0.033	U	0.032	U	0.036	U	0.034	U	0.038	U
Aroclor 1248	12672-29-6	mg/kg	0.1	1	1	3.2	0.036	U	0.033	U	0.035	U	0.037	U	0.034	U	0.035	U	0.035	U	0.036	U	0.033	U	0.032	U	0.036	U	0.034	U	0.038	U
Aroclor 1254	11097-69-1	mg/kg	0.1	1	1	3.2	0.036	U	0.033	U	0.035	U	0.037	U	0.034	U	0.035	U	0.035	U	0.036	U	0.033	U	0.032	U	0.036	U	0.034	U	0.038	U
Aroclor 1260	11096-82-5	mg/kg	0.1	1	1	3.2	0.036	U	0.033	U	0.0246	J	0.037	U	0.034	U	0.035	U	0.035	U	0.036	U	0.033	U	0.032	U	0.036	U	0.034	U	0.038	U
Aroclor 1262	37324-23-5	mg/kg	0.1	1	1	3.2	0.036	U	0.033	U	0.035	U	0.037	U	0.034	U	0.035	U	0.035	U	0.036	U	0.033	U	0.032	U	0.036	U	0.034	U	0.038	U
Aroclor 1268	11100-14-4	mg/kg	0.1	1	1	3.2	0.036	U	0.033	U	0.035	U	0.037	U	0.034	U	0.035	U	0.035	U	0.036	U	0.033	U	0.032	U	0.036	U	0.034	U	0.038	U
PCBs, Total	1336-36-3	mg/kg	0.1	1	1	3.2	-		-		-		-		-		-		-		-		-		-		-		-		-	

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-78(2.5-3.0)		SB-78(6.5-7.0)		SB-79(2.5-3)		SB-79(7.5-8.0)		SB-79(13.5-14.0)		SB-80(4.0-4.5)		SB-80(8.5-9.0)		SB-80(12-12.5)		SB-81(2.5-3.0)		SB-81(6.5-7.0)		SB-82(3.5-4.0)		SB-82(7.5-8.0)		SB-83(3-3.5)	
LAB SAMPLE ID:							JE18375-6		JE18375-7		JE18629-7		JE18629-8		JE18629-9		JE18629-4		JE18629-5		JE18629-6		JE18698-1		JE18698-2		JE18698-3		JE18698-4		JE18698-5	
SAMPLE DATE:							9/4/2025		9/4/2025		9/8/2025		9/8/2025		9/8/2025		9/8/2025		9/8/2025		9/8/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PCBs (SW846 8082A)																																
Aroclor 1016	12674-11-2	mg/kg	0.1	1	1	3.2	0.035	U	0.033	U	0.032	U	0.036	U	0.033	U	0.036	U	0.035	U	0.033	U	0.035	U	0.035	U	0.035	U	0.035	U	0.032	U
Aroclor 1221	11104-28-2	mg/kg	0.1	1	1	3.2	0.035	U	0.033	U	0.032	U	0.036	U	0.033	U	0.036	U	0.035	U	0.033	U	0.035	U	0.035	U	0.035	U	0.035	U	0.032	U
Aroclor 1232	11141-16-5	mg/kg	0.1	1	1	3.2	0.035	U	0.033	U	0.032	U	0.036	U	0.033	U	0.036	U	0.035	U	0.033	U	0.035	U	0.035	U	0.035	U	0.035	U	0.032	U
Aroclor 1242	53469-21-9	mg/kg	0.1	1	1	3.2	0.035	U	0.033	U	0.032	U	0.036	U	0.033	U	0.036	U	0.035	U	0.033	U	0.035	U	0.035	U	0.035	U	0.035	U	0.032	U
Aroclor 1248	12672-29-6	mg/kg	0.1	1	1	3.2	0.035	U	0.033	U	0.032	U	0.036	U	0.033	U	0.036	U	0.035	U	0.033	U	0.035	U	0.035	U	0.035	U	0.035	U	0.032	U
Aroclor 1254	11097-69-1	mg/kg	0.1	1	1	3.2	0.035	U	0.033	U	0.032	U	0.036	U	0.0663		0.036	U	0.035	U	0.033	U	0.035	U	0.035	U	0.035	U	0.035	U	0.0314	J
Aroclor 1260	11096-82-5	mg/kg	0.1	1	1	3.2	0.035	U	0.033	U	0.032	U	0.036	U	0.033	U	0.036	U	0.035	U	0.033	U	0.035	U	0.035	U	0.035	U	0.035	U	0.032	U
Aroclor 1262	37324-23-5	mg/kg	0.1	1	1	3.2	0.035	U	0.033	U	0.032	U	0.036	U	0.033	U	0.0319	J	0.035	U	0.033	U	0.035	U	0.035	U	0.035	U	0.035	U	0.032	U
Aroclor 1268	11100-14-4	mg/kg	0.1	1	1	3.2	0.035	U	0.033	U	0.032	U	0.036	U	0.033	U	0.036	U	0.035	U	0.033	U	0.035	U	0.035	U	0.035	U	0.035	U	0.032	U
PCBs, Total	1336-36-3	mg/kg	0.1	1	1	3.2	-		-		-		-		-		-		-		-		-		-		-		-		-	

Notes
1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs
Concentration Exceeds NYSDEC RRUSCOs
Concentration Exceeds NYSDEC UUSCOs
Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

TABLE 5.5
SUMMARY OF SOIL SAMPLING RESULTS—PCBs

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-83(6-6.5)		SB-83(13.5-14)		SB-84(2.5-3.0)		SB-84(8-8.5)		SB-84(12.5-13.0)		SB-85(4.5-5.0)		SB-85(7-7.5)		SB-85(11-11.5)		SB-85(16.5-17.0)		SB-86(4-4.5)		SB-86(6.5-7.0)		SB-87(3-3.5)		SB-87(6-6.5)	
LAB SAMPLE ID:							JE18698-6		JE18698-7		JE18698-8		JE18698-9		JE18698-10		JE18698-11		JE18698-12		JE18698-13		JE18698-14		JE18698-15		JE18698-16		JE18698-17		JE18698-18	
SAMPLE DATE:							9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PCBs (SW846 8082A)																																
Aroclor 1016	12674-11-2	mg/kg	0.1	1	1	3.2	0.033	U	0.036	U	0.036	U	0.033	U	0.033	U	0.036	U	0.036	U	0.033	U	0.033	U	0.033	U	0.035	U	0.035	U	0.033	U
Aroclor 1221	11104-28-2	mg/kg	0.1	1	1	3.2	0.033	U	0.036	U	0.036	U	0.033	U	0.033	U	0.036	U	0.036	U	0.033	U	0.033	U	0.033	U	0.035	U	0.035	U	0.033	U
Aroclor 1232	11141-16-5	mg/kg	0.1	1	1	3.2	0.033	U	0.036	U	0.036	U	0.033	U	0.033	U	0.036	U	0.036	U	0.033	U	0.033	U	0.033	U	0.035	U	0.035	U	0.033	U
Aroclor 1242	53469-21-9	mg/kg	0.1	1	1	3.2	0.033	U	0.036	U	0.036	U	0.033	U	0.033	U	0.036	U	0.036	U	0.033	U	0.033	U	0.033	U	0.035	U	0.035	U	0.033	U
Aroclor 1248	12672-29-6	mg/kg	0.1	1	1	3.2	0.033	U	0.036	U	0.036	U	0.033	U	0.033	U	0.036	U	0.036	U	0.033	U	0.033	U	0.033	U	0.035	U	0.035	U	0.033	U
Aroclor 1254	11097-69-1	mg/kg	0.1	1	1	3.2	0.033	U	0.036	U	0.027	J	0.033	U	0.033	U	0.036	U	0.036	U	0.033	U	0.033	U	0.033	U	0.035	U	0.035	U	0.033	U
Aroclor 1260	11096-82-5	mg/kg	0.1	1	1	3.2	0.033	U	0.036	U	0.036	U	0.033	U	0.033	U	0.036	U	0.036	U	0.033	U	0.033	U	0.033	U	0.035	U	0.035	U	0.033	U
Aroclor 1262	37324-23-5	mg/kg	0.1	1	1	3.2	0.033	U	0.036	U	0.036	U	0.033	U	0.033	U	0.036	U	0.036	U	0.033	U	0.033	U	0.033	U	0.035	U	0.035	U	0.033	U
Aroclor 1268	11100-14-4	mg/kg	0.1	1	1	3.2	0.033	U	0.036	U	0.036	U	0.033	U	0.033	U	0.036	U	0.036	U	0.033	U	0.033	U	0.033	U	0.035	U	0.035	U	0.033	U
PCBs, Total	1336-36-3	mg/kg	0.1	1	1	3.2	-		-		-		-		-		-		-		-		-		-		-		-		-	

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-87(14-14.5)		SB-88(4.5-5.0)		SB-88(6.5-7.0)		SB-88(13.5-14.0)		SB-89(2.5-3.0)		SB-89(6.5-7.0)		SB-89(12.5-13.0)		SB-90(3.5-4.0)		SB-90(6.5-7.0)		SB-90(13-13.5)		SB-91(3.5-4.0)		SB-91(7.0-7.5)		SB-92(2.0-2.5)	
LAB SAMPLE ID:							JE18698-19		JE18798-2		JE18798-3		JE18798-4		JE18798-5		JE18798-6		JE18798-7		JE18796-1		JE18796-2		JE18796-3		JE18796-4		JE18796-5		JE18796-6	
SAMPLE DATE:							9/9/2025		9/10/2025		9/10/2025		9/10/2025		9/10/2025		9/10/2025		9/10/2025		9/10/2025		9/10/2025		9/10/2025		9/10/2025		9/10/2025		9/10/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PCBs (SW846 8082A)																																
Aroclor 1016	12674-11-2	mg/kg	0.1	1	1	3.2	0.036	U	0.04	U	0.037	U	0.035	U	0.041	U	0.038	U	0.036	U	0.035	U	0.038	U	0.036	U	0.035	U	0.038	U	0.035	U
Aroclor 1221	11104-28-2	mg/kg	0.1	1	1	3.2	0.036	U	0.04	U	0.037	U	0.035	U	0.041	U	0.038	U	0.036	U	0.035	U	0.038	U	0.036	U	0.035	U	0.038	U	0.035	U
Aroclor 1232	11141-16-5	mg/kg	0.1	1	1	3.2	0.036	U	0.04	U	0.037	U	0.035	U	0.041	U	0.038	U	0.036	U	0.035	U	0.038	U	0.036	U	0.035	U	0.038	U	0.035	U
Aroclor 1242	53469-21-9	mg/kg	0.1	1	1	3.2	0.036	U	0.04	U	0.037	U	0.035	U	0.041	U	0.038	U	0.036	U	0.035	U	0.038	U	0.036	U	0.035	U	0.038	U	0.035	U
Aroclor 1248	12672-29-6	mg/kg	0.1	1	1	3.2	0.036	U	0.04	U	0.037	U	0.035	U	0.041	U	0.038	U	0.036	U	0.035	U	0.038	U	0.036	U	0.035	U	0.038	U	0.035	U
Aroclor 1254	11097-69-1	mg/kg	0.1	1	1	3.2	0.036	U	0.04	U	0.037	U	0.035	U	0.041	U	0.038	U	0.036	U	0.035	U	0.038	U	0.036	U	0.035	U	0.038	U	0.035	U
Aroclor 1260	11096-82-5	mg/kg	0.1	1	1	3.2	0.036	U	0.04	U	0.037	U	0.035	U	0.041	U	0.038	U	0.036	U	0.035	U	0.038	U	0.036	U	0.035	U	0.038	U	0.035	U
Aroclor 1262	37324-23-5	mg/kg	0.1	1	1	3.2	0.036	U	0.04	U	0.037	U	0.035	U	0.041	U	0.038	U	0.036	U	0.035	U	0.038	U	0.036	U	0.035	U	0.038	U	0.035	U
Aroclor 1268	11100-14-4	mg/kg	0.1	1	1	3.2	0.036	U	0.04	U	0.037	U	0.035	U	0.041	U	0.038	U	0.036	U	0.035	U	0.038	U	0.036	U	0.035	U	0.038	U	0.035	U
PCBs, Total	1336-36-3	mg/kg	0.1	1	1	3.2	-		-		-		-		-		-		-		-		-		-		-		-		-	

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-92(5.5-6.0)	
LAB SAMPLE ID:							JE18796-7	
SAMPLE DATE:							9/10/2025	
MATRIX:							SOIL	
							Results	Q
PCBs (SW846 8082A)								
Aroclor 1016	12674-11-2	mg/kg	0.1	1	1	3.2	0.036	U
Aroclor 1221	11104-28-2	mg/kg	0.1	1	1	3.2	0.036	U
Aroclor 1232	11141-16-5	mg/kg	0.1	1	1	3.2	0.036	U
Aroclor 1242	53469-21-9	mg/kg	0.1	1	1	3.2	0.036	U
Aroclor 1248	12672-29-6	mg/kg	0.1	1	1	3.2	0.036	U
Aroclor 1254	11097-69-1	mg/kg	0.1	1	1	3.2	0.036	U
Aroclor 1260	11096-82-5	mg/kg	0.1	1	1	3.2	0.036	U
Aroclor 1262	37324-23-5	mg/kg	0.1	1	1	3.2	0.036	U
Aroclor 1268	11100-14-4	mg/kg	0.1	1	1	3.2	0.036	U
PCBs, Total	1336-36-3	mg/kg	0.1	1	1	3.2	-	

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs

Concentration Exceeds NYSDEC RRUSCOs

Concentration Exceeds NYSDEC UUSCOs

Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

SESI CONSULTING ENGINEERS

REMEDIAL INVESTIGATION REPORT

TABLE 5.6
SUMMARY OF SOIL SAMPLING RESULTS—PFAS

26-28, 40, 60 East Post Road
223-225 Dr. MLK Jr. Blvd.
and Brookfield Street
White Plains, NY

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-1 (2.0-2.5)		SB-1 (5.5-6.0)		SB-1 (10.5-11.0)		SB-2 (3.0-3.5)		SB-2 (7.5-8.0)		SB-2 (12.0-12.5)		SB-3 (3.5-4.0)		SB-3 (7.5-8.0)		SB-3 (10.0-10.5)		SB-4 (2.5-3.0)		SB-4 (9.0-9.5)	
LAB SAMPLE ID:							L2543726-10		L2542207-01		L2543726-11		L2543726-08		L2543726-09		L2542207-02		L2543856-01		L2543856-02		L2542207-03		L2543856-03		L2542207-04	
SAMPLE DATE:							7/11/2025		7/7/2025		7/11/2025		7/11/2025		7/11/2025		7/7/2025		7/14/2025		7/14/2025		7/7/2025		7/14/2025		7/7/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PFAS (EPA METHOD 1633)																												
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	763051-92-9	mg/kg	NS	NS	NS	NS	0.796	U	0.799	U	0.796	U	0.796	U	0.794	U	0.799	U	0.798	U	0.799	U	0.8	U	0.799	U	0.799	U
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	mg/kg	NS	NS	NS	NS	0.796	U	0.799	U	0.796	U	0.796	U	0.794	U	0.799	U	0.798	U	0.799	U	0.8	U	0.799	U	0.799	U
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	757124-72-4	mg/kg	NS	NS	NS	NS	0.796	U	0.799	U	0.796	U	0.796	U	0.794	U	0.799	U	0.798	U	0.799	U	0.8	U	0.799	U	0.799	U
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	mg/kg	NS	NS	NS	NS	0.796	U	0.799	U	0.796	U	0.796	U	0.794	U	0.799	U	0.798	U	0.799	U	0.8	U	0.799	U	0.799	U
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	914637-49-3	mg/kg	NS	NS	NS	NS	4.98	U	5	U	4.98	U	4.98	U	4.96	U	4.99	U	4.99	U	5	U	5	U	4.99	U	4.99	U
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	812-70-4	mg/kg	NS	NS	NS	NS	4.98	U	5	U	4.98	U	4.98	U	4.96	U	4.99	U	4.99	U	5	U	5	U	4.99	U	4.99	U
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	356-02-5	mg/kg	NS	NS	NS	NS	0.995	U	0.999	U	0.996	U	0.995	U	0.992	U	0.999	U	0.998	U	0.999	U	1	U	0.999	U	0.998	U
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	919005-14-4	mg/kg	NS	NS	NS	NS	0.796	U	0.799	U	0.796	U	0.796	U	0.794	U	0.799	U	0.798	U	0.799	U	0.8	U	0.799	U	0.799	U
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	756426-58-1	mg/kg	NS	NS	NS	NS	0.796	U	0.799	U	0.796	U	0.796	U	0.794	U	0.799	U	0.798	U	0.799	U	0.8	U	0.799	U	0.799	U
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	13252-13-6	mg/kg	NS	NS	NS	NS	0.796	U	0.799	U	0.796	U	0.796	U	0.794	U	0.799	U	0.798	U	0.799	U	0.8	U	0.799	U	0.799	U
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	4151-50-2	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.199	U	0.198	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	1691-99-2	mg/kg	NS	NS	NS	NS	1.99	U	2	U	1.99	U	1.99	U	1.98	U	2	U	2	U	2	U	2	U	2	U	2	U
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.199	U	0.198	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	31506-32-8	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.199	U	0.198	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	24448-09-7	mg/kg	NS	NS	NS	NS	1.99	U	2	U	1.99	U	1.99	U	1.98	U	2	U	2	U	2	U	2	U	2	U	2	U
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.199	U	0.198	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	151772-58-6	mg/kg	NS	NS	NS	NS	0.398	U	0.4	U	0.398	U	0.398	U	0.397	U	0.399	U	0.399	U	0.4	U	0.4	U	0.399	U	0.399	U
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	113507-82-7	mg/kg	NS	NS	NS	NS	0.398	U	0.4	U	0.398	U	0.398	U	0.397	U	0.399	U	0.399	U	0.4	U	0.4	U	0.399	U	0.399	U
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	377-73-1	mg/kg	NS	NS	NS	NS	0.398	U	0.4	U	0.398	U	0.398	U	0.397	U	0.399	U	0.399	U	0.4	U	0.4	U	0.399	U	0.399	U
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	863090-89-5	mg/kg	NS	NS	NS	NS	0.398	U	0.4	U	0.398	U	0.398	U	0.397	U	0.399	U	0.399	U	0.4	U	0.4	U	0.399	U	0.399	U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.199	U	0.198	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorobutanoic Acid (PFBA)	375-22-4	mg/kg	NS	NS	NS	NS	0.796	U	0.799	U	0.796	U	0.054	J	0.794	U	0.799	U	0.798	U	0.799	U	0.8	U	0.799	U	0.799	U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.199	U	0.198	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorodecanoic Acid (PFDA)	335-76-2	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.17	J	0.198	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorododecanesulfonic Acid (PFDoS)	79780-39-5	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.199	U	0.198	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorododecanoic Acid (PFDoA)	307-55-1	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.199	U	0.198	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.199	U	0.198	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluoroheptanoic Acid (PFHpA)	375-85-9	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.057	J	0.198	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.199	U	0.198	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorohexanoic Acid (PFHxA)	307-24-4	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.126	J	0.198	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.199	U	0.198	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorononanoic Acid (PFNA)	375-95-1	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.053	J	0.198	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorooctanesulfonamide (PFOSA)	754-91-6	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.014	J	0.199	U	0.198	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	mg/kg	0.88	44	440	1.0	0.265		0.234		0.199	U	0.556		0.052	J	0.12	J	0.624		0.2	U	0.2	U	0.297		1.3	
Perfluorooctanoic Acid (PFOA)	335-67-1	mg/kg	0.66	33	500	0.8	0.199	U	0.2	U	0.199	U	0.117	J	0.198	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.101	J
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.199	U	0.198	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	mg/kg	NS	NS	NS	NS	0.398	U	0.4	U	0.398	U	0.115	J	0.397	U	0.399	U	0.399	U	0.4	U	0.4	U	0.399	U	0.399	U
Perfluorotetradecanoic Acid (PFTeDA)	376-06-7	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.199	U	0.198	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.199	U	0.198	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.022	JF	0.198	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs
Concentration Exceeds NYSDEC RRUSCOs
Concentration Exceeds NYSDEC UUSCOs
Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-4 (11.0-11.5)		SB-5 (3.0-3.5)		SB-5 (8.5-9.0)		SB-5 (12.5-13.0)		SB-6 (1.0-1.5)		SB-6 (8.0-8.5)		SB-6 (10.5-11.0)		SB-7 (2.5-3.0)		SB-7 (6.0-6.5)		SB-8 (3.5-4.0)		SB-8 (8.0-8.5)	
LAB SAMPLE ID:							L2543856-04		L2543856-06		L2543856-07		L2542207-05		L2543726-12		L2543726-13		L2542207-06		L2542560-01		L2543856-05		L2544282-04		L2542560-02	
SAMPLE DATE:							7/14/2025		7/14/2025		7/14/2025		7/7/2025		7/11/2025		7/11/2025		7/7/2025		7/8/2025		7/14/2025		7/15/2025		7/8/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PFAS (EPA METHOD 1633)																												
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	763051-92-9	mg/kg	NS	NS	NS	NS	0.798	U	0.799	U	0.8	U	0.794	U	0.798	U	0.789	U	0.794	U	0.796	U	0.798	U	0.791	U	0.799	U
1H,1H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	mg/kg	NS	NS	NS	NS	0.798	U	0.799	U	0.8	U	0.794	U	0.798	U	0.789	U	0.794	U	0.796	U	0.798	U	0.791	U	0.799	U
1H,1H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	757124-72-4	mg/kg	NS	NS	NS	NS	0.798	U	0.799	U	0.8	U	0.794	U	0.798	U	0.789	U	0.794	U	0.796	U	0.798	U	0.791	U	0.799	U
1H,1H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	mg/kg	NS	NS	NS	NS	0.798	U	0.799	U	0.8	U	0.794	U	0.798	U	0.789	U	0.794	U	0.796	U	0.798	U	0.791	U	0.799	U
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	914637-49-3	mg/kg	NS	NS	NS	NS	4.99	U	5	U	5	U	4.96	U	4.98	U	4.93	U	4.96	U	4.97	U	4.99	U	4.94	U	4.99	U
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	812-70-4	mg/kg	NS	NS	NS	NS	4.99	U	5	U	5	U	4.96	U	4.98	U	4.93	U	4.96	U	4.97	U	4.99	U	4.94	U	4.99	U
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	356-02-5	mg/kg	NS	NS	NS	NS	0.998	U	0.999	U	1	U	0.992	U	0.997	U	0.986	U	0.992	U	0.995	U	0.997	U	0.989	U	0.998	U
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	919005-14-4	mg/kg	NS	NS	NS	NS	0.798	U	0.799	U	0.8	U	0.794	U	0.798	U	0.789	U	0.794	U	0.796	U	0.798	U	0.791	U	0.799	U
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	756426-58-1	mg/kg	NS	NS	NS	NS	0.798	U	0.799	U	0.8	U	0.794	U	0.798	U	0.789	U	0.794	U	0.796	U	0.798	U	0.791	U	0.799	U
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	13252-13-6	mg/kg	NS	NS	NS	NS	0.798	U	0.799	U	0.8	U	0.794	U	0.798	U	0.789	U	0.794	U	0.796	U	0.798	U	0.791	U	0.799	U
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	4151-50-2	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.2	U	0.198	U	0.199	U	0.197	U	0.198	U	0.199	U	0.199	U	0.198	U	0.2	U
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	1691-99-2	mg/kg	NS	NS	NS	NS	2	U	2	U	2	U	1.98	U	1.99	U	1.97	U	1.98	U	1.99	U	1.99	U	1.98	U	2	U
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.2	U	0.198	U	0.199	U	0.197	U	0.198	U	0.199	U	0.199	U	0.198	U	0.2	U
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	31506-32-8	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.2	U	0.198	U	0.199	U	0.197	U	0.198	U	0.199	U	0.199	U	0.198	U	0.2	U
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	24448-09-7	mg/kg	NS	NS	NS	NS	2	U	2	U	2	U	1.98	U	1.99	U	1.97	U	1.98	U	1.99	U	1.99	U	1.98	U	2	U
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.2	U	0.198	U	0.199	U	0.197	U	0.198	U	0.199	U	0.199	U	0.198	U	0.2	U
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	151772-58-6	mg/kg	NS	NS	NS	NS	0.399	U	0.4	U	0.4	U	0.397	U	0.399	U	0.394	U	0.397	U	0.398	U	0.399	U	0.396	U	0.399	U
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	113507-82-7	mg/kg	NS	NS	NS	NS	0.399	U	0.4	U	0.4	U	0.397	U	0.399	U	0.394	U	0.397	U	0.398	U	0.399	U	0.396	U	0.399	U
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	377-73-1	mg/kg	NS	NS	NS	NS	0.399	U	0.4	U	0.4	U	0.397	U	0.399	U	0.394	U	0.397	U	0.398	U	0.399	U	0.396	U	0.399	U
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	863090-89-5	mg/kg	NS	NS	NS	NS	0.399	U	0.4	U	0.4	U	0.397	U	0.399	U	0.394	U	0.397	U	0.398	U	0.399	U	0.396	U	0.399	U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.2	U	0.198	U	0.199	U	0.197	U	0.198	U	0.199	U	0.199	U	0.198	U	0.2	U
Perfluorobutanoic Acid (PFBA)	375-22-4	mg/kg	NS	NS	NS	NS	0.798	U	0.799	U	0.8	U	0.794	U	0.798	U	0.789	U	0.794	U	0.796	U	0.798	U	0.791	U	0.799	U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.2	U	0.198	U	0.199	U	0.197	U	0.198	U	0.199	U	0.199	U	0.198	U	0.2	U
Perfluorodecanoic Acid (PFDA)	335-76-2	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.2	U	0.198	U	0.199	U	0.197	U	0.198	U	0.199	U	0.199	U	0.198	U	0.2	U
Perfluorododecanesulfonic Acid (PFDoS)	79780-39-5	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.2	U	0.198	U	0.199	U	0.197	U	0.198	U	0.199	U	0.199	U	0.198	U	0.2	U
Perfluorododecanoic Acid (PFDoA)	307-55-1	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.2	U	0.198	U	0.199	U	0.197	U	0.198	U	0.199	U	0.199	U	0.198	U	0.2	U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.2	U	0.198	U	0.199	U	0.197	U	0.198	U	0.199	U	0.199	U	0.198	U	0.2	U
Perfluoroheptanoic Acid (PFHpA)	375-85-9	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.2	U	0.198	U	0.199	U	0.197	U	0.198	U	0.199	U	0.199	U	0.198	U	0.2	U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.2	U	0.198	U	0.199	U	0.197	U	0.198	U	0.199	U	0.199	U	0.198	U	0.2	U
Perfluorohexanoic Acid (PFHxA)	307-24-4	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.2	U	0.198	U	0.199	U	0.197	U	0.198	U	0.199	U	0.199	U	0.198	U	0.2	U
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.2	U	0.198	U	0.199	U	0.197	U	0.198	U	0.199	U	0.199	U	0.198	U	0.2	U
Perfluorononanoic Acid (PFNA)	375-95-1	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.2	U	0.198	U	0.199	U	0.197	U	0.198	U	0.199	U	0.199	U	0.043	J	0.2	U
Perfluorooctanesulfonamide (PFOSA)	754-91-6	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.2	U	0.198	U	0.199	U	0.197	U	0.198	U	0.199	U	0.199	U	0.198	U	0.2	U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	mg/kg	0.88	44	440	1.0	0.285		0.11	J	0.044	J	0.105	J	0.044	J	0.099	J	0.068	J	0.067	J	0.047	J	0.301		0.2	U
Perfluorooctanoic Acid (PFOA)	335-67-1	mg/kg	0.66	33	500	0.8	0.2	U	0.039	J	0.2	U	0.198	U	0.199	U	0.197	U	0.198	U	0.199	U	0.199	U	0.063	J	0.05	J
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.2	U	0.198	U	0.199	U	0.197	U	0.198	U	0.199	U	0.199	U	0.198	U	0.2	U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	mg/kg	NS	NS	NS	NS	0.399	U	0.4	U	0.4	U	0.397	U	0.399	U	0.394	U	0.397	U	0.398	U	0.399	U	0.396	U	0.399	U
Perfluorotetradecanoic Acid (PFTeDA)	376-06-7	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.2	U	0.198	U	0.199	U	0.197	U	0.198	U	0.199	U	0.199	U	0.198	U	0.2	U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.2	U	0.198	U	0.199	U	0.197	U	0.198	U	0.199	U	0.199	U	0.198	U	0.2	U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.2	U	0.198	U	0.199	U	0.197	U	0.198	U	0.199	U	0.199	U	0.198	U	0.2	U

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs
Concentration Exceeds NYSDEC RRUSCOs
Concentration Exceeds NYSDEC UUSCOs
Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-8 (11.0-11.5)		SB-8 (17.5-18.0)		SB-9 (1.5-2.0)		SB-9 (6.0-6.5)		SB-9 (13.0-13.5)		SB-9 (16.0-16.5)		SB-10 (4.0-4.5)		SB-10 (7.0-7.5)		SB-10 (13.5-14.0)		SB-10 (15.5-16.0)		SB-11 (16.0-16.5)	
LAB SAMPLE ID:							L2544282-05		L2544282-06		L2544282-01		L2544282-02		L2542560-03		L2544282-03		L2542560-04		L2544282-07		L2544282-08		L2544282-09		L2542560-05	
SAMPLE DATE:							7/15/2025		7/15/2025		7/15/2025		7/15/2025		7/8/2025		7/15/2025		7/8/2025		7/15/2025		7/15/2025		7/15/2025		7/8/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PFAS (EPA METHOD 1633)																												
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	763051-92-9	mg/kg	NS	NS	NS	NS	0.798	U	0.796	U	0.792	U	0.796	U	0.799	U	0.796	U	0.799	U	0.794	U	0.796	U	0.796	U	0.796	U
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	mg/kg	NS	NS	NS	NS	0.798	U	0.796	U	0.792	U	0.796	U	0.799	U	0.796	U	0.799	U	0.794	U	0.796	U	0.796	U	0.796	U
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	757124-72-4	mg/kg	NS	NS	NS	NS	0.798	U	0.796	U	0.792	U	0.796	U	0.799	U	0.796	U	0.799	U	0.794	U	0.796	U	0.796	U	0.796	U
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	mg/kg	NS	NS	NS	NS	0.798	U	0.796	U	0.792	U	0.796	U	0.799	U	0.796	U	0.799	U	0.794	U	0.796	U	0.796	U	0.796	U
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	914637-49-3	mg/kg	NS	NS	NS	NS	4.99	U	4.98	U	4.95	U	4.98	U	4.99	U	4.97	U	4.99	U	4.96	U	4.98	U	4.98	U	4.98	U
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	812-70-4	mg/kg	NS	NS	NS	NS	4.99	U	4.98	U	4.95	U	4.98	U	4.99	U	4.97	U	4.99	U	4.96	U	4.98	U	4.98	U	4.98	U
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	356-02-5	mg/kg	NS	NS	NS	NS	0.998	U	0.996	U	0.99	U	0.995	U	0.999	U	0.995	U	0.999	U	0.992	U	0.996	U	0.995	U	0.995	U
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	919005-14-4	mg/kg	NS	NS	NS	NS	0.798	U	0.796	U	0.792	U	0.796	U	0.799	U	0.796	U	0.799	U	0.794	U	0.796	U	0.796	U	0.796	U
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	756426-58-1	mg/kg	NS	NS	NS	NS	0.798	U	0.796	U	0.792	U	0.796	U	0.799	U	0.796	U	0.799	U	0.794	U	0.796	U	0.796	U	0.796	U
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	13252-13-6	mg/kg	NS	NS	NS	NS	0.798	U	0.796	U	0.792	U	0.796	U	0.799	U	0.796	U	0.799	U	0.794	U	0.796	U	0.796	U	0.796	U
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	4151-50-2	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.198	U	0.199	U	0.2	U	0.199	U	0.2	U	0.198	U	0.199	U	0.199	U	0.199	U
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	1691-99-2	mg/kg	NS	NS	NS	NS	2	U	1.99	U	1.98	U	1.99	U	2	U	1.99	U	2	U	1.98	U	1.99	U	1.99	U	1.99	U
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.198	U	0.199	U	0.2	U	0.199	U	0.2	U	0.198	U	0.199	U	0.199	U	0.199	U
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	31506-32-8	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.198	U	0.199	U	0.2	U	0.199	U	0.2	U	0.198	U	0.199	U	0.199	U	0.199	U
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	24448-09-7	mg/kg	NS	NS	NS	NS	2	U	1.99	U	1.98	U	1.99	U	2	U	1.99	U	2	U	1.98	U	1.99	U	1.99	U	1.99	U
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.198	U	0.199	U	0.2	U	0.199	U	0.2	U	0.198	U	0.199	U	0.199	U	0.199	U
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	151772-58-6	mg/kg	NS	NS	NS	NS	0.399	U	0.398	U	0.396	U	0.398	U	0.4	U	0.398	U	0.399	U	0.397	U	0.398	U	0.398	U	0.398	U
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	113507-82-7	mg/kg	NS	NS	NS	NS	0.399	U	0.398	U	0.396	U	0.398	U	0.4	U	0.398	U	0.399	U	0.397	U	0.398	U	0.398	U	0.398	U
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	377-73-1	mg/kg	NS	NS	NS	NS	0.399	U	0.398	U	0.396	U	0.398	U	0.4	U	0.398	U	0.399	U	0.397	U	0.398	U	0.398	U	0.398	U
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	863090-89-5	mg/kg	NS	NS	NS	NS	0.399	U	0.398	U	0.396	U	0.398	U	0.4	U	0.398	U	0.399	U	0.397	U	0.398	U	0.398	U	0.398	U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.198	U	0.199	U	0.2	U	0.199	U	0.2	U	0.198	U	0.199	U	0.199	U	0.199	U
Perfluorobutanoic Acid (PFBA)	375-22-4	mg/kg	NS	NS	NS	NS	0.798	U	0.796	U	0.069	J	0.796	U	0.799	U	0.796	U	0.799	U	0.794	U	0.796	U	0.796	U	0.796	U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.198	U	0.199	U	0.2	U	0.199	U	0.2	U	0.198	U	0.199	U	0.199	U	0.199	U
Perfluorodecanoic Acid (PFDA)	335-76-2	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.198	U	0.199	U	0.2	U	0.199	U	0.134	J	0.087	J	0.199	U	0.199	U	0.199	U
Perfluorododecanesulfonic Acid (PFDoS)	79780-39-5	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.198	U	0.199	U	0.2	U	0.199	U	0.2	U	0.198	U	0.199	U	0.199	U	0.199	U
Perfluorododecanoic Acid (PFDoA)	307-55-1	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.198	U	0.199	U	0.2	U	0.199	U	0.2	U	0.198	U	0.199	U	0.199	U	0.199	U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.198	U	0.199	U	0.2	U	0.199	U	0.2	U	0.198	U	0.199	U	0.199	U	0.199	U
Perfluoroheptanoic Acid (PFHpA)	375-85-9	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.028	J	0.199	U	0.2	U	0.199	U	0.2	U	0.198	U	0.199	U	0.199	U	0.199	U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.198	U	0.199	U	0.2	U	0.199	U	0.2	U	0.198	U	0.199	U	0.199	U	0.199	U
Perfluorohexanoic Acid (PFHxA)	307-24-4	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.054	J	0.199	U	0.2	U	0.199	U	0.2	U	0.198	U	0.199	U	0.199	U	0.199	U
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.198	U	0.199	U	0.2	U	0.199	U	0.2	U	0.198	U	0.199	U	0.199	U	0.199	U
Perfluorononanoic Acid (PFNA)	375-95-1	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.03	J	0.199	U	0.2	U	0.199	U	0.2	U	0.198	U	0.199	U	0.199	U	0.199	U
Perfluorooctanesulfonamide (PFOSA)	754-91-6	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.198	U	0.199	U	0.2	U	0.199	U	0.2	U	0.198	U	0.199	U	0.199	U	0.199	U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	mg/kg	0.88	44	440	1.0	0.2	U	0.039	J	0.088	J	0.199	U	0.049	J	0.048	J	0.19	J	0.142	J	0.199	U	0.057	J	0.199	U
Perfluorooctanoic Acid (PFOA)	335-67-1	mg/kg	0.66	33	500	0.8	0.2	U	0.199	U	0.112	J	0.199	U	0.2	U	0.199	U	0.2	U	0.198	U	0.199	U	0.199	U	0.199	U
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.198	U	0.199	U	0.2	U	0.199	U	0.2	U	0.198	U	0.199	U	0.199	U	0.199	U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	mg/kg	NS	NS	NS	NS	0.399	U	0.398	U	0.396	U	0.398	U	0.4	U	0.398	U	0.399	U	0.397	U	0.398	U	0.398	U	0.398	U
Perfluorotetradecanoic Acid (PFTeDA)	376-06-7	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.198	U	0.199	U	0.2	U	0.199	U	0.2	U	0.198	U	0.199	U	0.199	U	0.199	U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.198	U	0.199	U	0.2	U	0.199	U	0.2	U	0.198	U	0.199	U	0.199	U	0.199	U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.198	U	0.199	U	0.2	U	0.199	U	0.046	J	0.057	J	0.199	U	0.199	U	0.199	U

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs
Concentration Exceeds NYSDEC RRUSCOs
Concentration Exceeds NYSDEC UUSCOs
Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-12 (1.5-2.0)		SB-12 (5.5-6.0)		SB-12 (13.0-13.5)		SB-12 (18.0-18.5)		SB-13 (5.0-5.5)		SB-14 (3.5-4.0)		SB-15 (2.5-3.0)		SB-15 (6.0-6.5)		SB-15 (12.0-12.5)		SB-15 (16.5-17.0)		SB-16 (2.0-2.5)	
LAB SAMPLE ID:							L2542560-06		L2544282-13		L2544282-14		L2544282-15		L2542974-01		L2542974-02		L2544282-10		L2542974-03		L2544282-11		L2544282-12		L2542974-04	
SAMPLE DATE:							7/8/2025		7/15/2025		7/15/2025		7/15/2025		7/9/2025		7/9/2025		7/15/2025		7/9/2025		7/15/2025		7/15/2025		7/9/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PFAS (EPA METHOD 1633)																												
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	763051-92-9	mg/kg	NS	NS	NS	NS	0.8	U	0.788	U	0.79	U	0.788	U	0.791	U	0.798	U	0.792	U	0.793	U	0.793	U	0.794	U	0.795	U
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	mg/kg	NS	NS	NS	NS	0.8	U	0.788	U	0.79	U	0.788	U	0.791	U	0.798	U	0.792	U	0.793	U	0.793	U	0.794	U	0.795	U
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	757124-72-4	mg/kg	NS	NS	NS	NS	0.8	U	0.788	U	0.79	U	0.788	U	0.791	U	0.798	U	0.792	U	0.793	U	0.793	U	0.794	U	0.795	U
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	mg/kg	NS	NS	NS	NS	0.8	U	0.788	U	0.79	U	0.788	U	0.791	U	0.798	U	0.792	U	0.793	U	0.793	U	0.794	U	0.795	U
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	914637-49-3	mg/kg	NS	NS	NS	NS	5	U	4.93	U	4.94	U	4.92	U	4.94	U	4.99	U	4.95	U	4.96	U	4.96	U	4.96	U	4.97	U
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	812-70-4	mg/kg	NS	NS	NS	NS	5	U	4.93	U	4.94	U	4.92	U	4.94	U	4.99	U	4.95	U	4.96	U	4.96	U	4.96	U	4.97	U
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	356-02-5	mg/kg	NS	NS	NS	NS	0.999	U	0.985	U	0.987	U	0.984	U	0.989	U	0.998	U	0.99	U	0.991	U	0.992	U	0.993	U	0.994	U
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	919005-14-4	mg/kg	NS	NS	NS	NS	0.8	U	0.788	U	0.987	U	0.788	U	0.791	U	0.798	U	0.792	U	0.793	U	0.793	U	0.794	U	0.795	U
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	756426-58-1	mg/kg	NS	NS	NS	NS	0.8	U	0.788	U	0.79	U	0.788	U	0.791	U	0.798	U	0.792	U	0.793	U	0.793	U	0.794	U	0.795	U
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	13252-13-6	mg/kg	NS	NS	NS	NS	0.8	U	0.788	U	0.79	U	0.788	U	0.791	U	0.798	U	0.792	U	0.793	U	0.793	U	0.794	U	0.795	U
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	4151-50-2	mg/kg	NS	NS	NS	NS	0.2	U	0.197	U	0.197	U	0.197	U	0.198	U	0.2	U	0.198	U	0.198	U	0.198	U	0.198	U	0.199	U
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	1691-99-2	mg/kg	NS	NS	NS	NS	2	U	1.97	U	1.97	U	1.97	U	1.98	U	2	U	1.98	U	1.98	U	1.98	U	1.98	U	1.99	U
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	mg/kg	NS	NS	NS	NS	0.2	U	0.197	U	0.197	U	0.197	U	0.198	U	0.2	U	0.198	U	0.198	U	0.198	U	0.198	U	0.199	U
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	31506-32-8	mg/kg	NS	NS	NS	NS	0.2	U	0.197	U	0.197	U	0.197	U	0.198	U	0.2	U	0.198	U	0.198	U	0.198	U	0.198	U	0.199	U
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	24448-09-7	mg/kg	NS	NS	NS	NS	2	U	1.97	U	1.97	U	1.97	U	1.98	U	2	U	1.98	U	1.98	U	1.98	U	1.98	U	1.99	U
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	mg/kg	NS	NS	NS	NS	0.2	U	0.197	U	0.197	U	0.197	U	0.198	U	0.2	U	0.198	U	0.198	U	0.198	U	0.198	U	0.199	U
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	151772-58-6	mg/kg	NS	NS	NS	NS	0.4	U	0.394	U	0.395	U	0.394	U	0.395	U	0.399	U	0.396	U	0.396	U	0.397	U	0.397	U	0.398	U
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	113507-82-7	mg/kg	NS	NS	NS	NS	0.4	U	0.394	U	0.395	U	0.394	U	0.395	U	0.399	U	0.396	U	0.396	U	0.397	U	0.397	U	0.398	U
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	377-73-1	mg/kg	NS	NS	NS	NS	0.4	U	0.394	U	0.395	U	0.394	U	0.395	U	0.124	J	0.396	U	0.396	U	0.397	U	0.397	U	0.398	U
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	863090-89-5	mg/kg	NS	NS	NS	NS	0.4	U	0.394	U	0.395	U	0.394	U	0.395	U	0.399	U	0.396	U	0.396	U	0.397	U	0.397	U	0.398	U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	mg/kg	NS	NS	NS	NS	0.2	U	0.197	U	0.197	U	0.197	U	0.198	U	0.2	U	0.198	U	0.198	U	0.198	U	0.198	U	0.199	U
Perfluorobutanoic Acid (PFBA)	375-22-4	mg/kg	NS	NS	NS	NS	0.8	U	0.788	U	0.79	U	0.788	U	0.035	J	0.085	J	0.792	U	0.029	J	0.793	U	0.794	U	0.041	J
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	mg/kg	NS	NS	NS	NS	0.2	U	0.197	U	0.197	U	0.197	U	0.198	U	0.2	U	0.198	U	0.198	U	0.198	U	0.198	U	0.199	U
Perfluorodecanoic Acid (PFDA)	335-76-2	mg/kg	NS	NS	NS	NS	0.2	U	0.197	U	0.197	U	0.197	U	0.198	U	0.073	J	0.198	U	0.198	U	0.198	U	0.198	U	0.199	U
Perfluorododecanesulfonic Acid (PFDoS)	79780-39-5	mg/kg	NS	NS	NS	NS	0.2	U	0.197	U	0.197	U	0.197	U	0.198	U	0.2	U	0.198	U	0.198	U	0.198	U	0.198	U	0.199	U
Perfluorododecanoic Acid (PFDoA)	307-55-1	mg/kg	NS	NS	NS	NS	0.2	U	0.197	U	0.197	U	0.197	U	0.198	U	0.2	U	0.198	U	0.198	U	0.198	U	0.198	U	0.199	U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	mg/kg	NS	NS	NS	NS	0.2	U	0.197	U	0.197	U	0.197	U	0.198	U	0.2	U	0.198	U	0.198	U	0.198	U	0.198	U	0.199	U
Perfluoroheptanoic Acid (PFHpA)	375-85-9	mg/kg	NS	NS	NS	NS	0.075	J	0.197	U	0.197	U	0.197	U	0.198	U	0.144	J	0.198	U	0.198	U	0.198	U	0.198	U	0.199	U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	mg/kg	NS	NS	NS	NS	0.2	U	0.197	U	0.197	U	0.197	U	0.198	U	0.071	J	0.198	U	0.198	U	0.198	U	0.198	U	0.199	U
Perfluorohexanoic Acid (PFHxA)	307-24-4	mg/kg	NS	NS	NS	NS	0.194	J	0.197	U	0.197	U	0.197	U	0.198	U	0.137	J	0.198	U	0.198	U	0.198	U	0.198	U	0.199	U
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	mg/kg	NS	NS	NS	NS	0.2	U	0.197	U	0.197	U	0.197	U	0.198	U	0.2	U	0.198	U	0.198	U	0.198	U	0.198	U	0.199	U
Perfluorononanoic Acid (PFNA)	375-95-1	mg/kg	NS	NS	NS	NS	0.2	U	0.197	U	0.197	U	0.197	U	0.198	U	0.061	J	0.198	U	0.198	U	0.198	U	0.198	U	0.199	U
Perfluorooctanesulfonamide (PFOSA)	754-91-6	mg/kg	NS	NS	NS	NS	0.2	U	0.197	U	0.197	U	0.197	U	0.198	U	0.2	U	0.198	U	0.198	U	0.198	U	0.198	U	0.199	U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	mg/kg	0.88	44	440	1.0	0.098	J	0.197	U	0.049	J	0.197	U	0.198	U	0.475		0.088	J	0.198	U	0.055	J	0.198	U	0.098	J
Perfluorooctanoic Acid (PFOA)	335-67-1	mg/kg	0.66	33	500	0.8	0.135	J	0.197	U	0.197	U	0.197	U	0.198	U	0.409		0.198	U	0.198	U	0.198	U	0.198	U	0.199	U
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	mg/kg	NS	NS	NS	NS	0.2	U	0.197	U	0.197	U	0.197	U	0.198	U	0.2	U	0.198	U	0.198	U	0.198	U	0.198	U	0.199	U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	mg/kg	NS	NS	NS	NS	0.135	J	0.394	U	0.395	U	0.394	U	0.395	U	0.188	J	0.396	U	0.396	U	0.397	U	0.397	U	0.398	U
Perfluorotetradecanoic Acid (PFTeDA)	376-06-7	mg/kg	NS	NS	NS	NS	0.2	U	0.197	U	0.197	U	0.197	U	0.198	U	0.2	U	0.198	U	0.198	U	0.198	U	0.198	U	0.199	U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	mg/kg	NS	NS	NS	NS	0.2	U	0.197	U	0.197	U	0.197	U	0.198	U	0.2	U	0.198	U	0.198	U	0.198	U	0.198	U	0.199	U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	mg/kg	NS	NS	NS	NS	0.2	U	0.197	U	0.197	U	0.197	U	0.198	U	0.2	U	0.198	U	0.198	U	0.198	U	0.198	U	0.199	U

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs
Concentration Exceeds NYSDEC RRUSCOs
Concentration Exceeds NYSDEC UUSCOs
Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-16 (5.0-5.5)		SB-17 (3.0-3.5)		SB-18 (2.0-2.5)		SB-18 (6.5-7.0)		SB-19 (2.5-3.0)		SB-20 (3.0-3.5)		SB-21 (4.0-4.5)		SB-21 (7.0-7.5)		SB-21 (13.0-13.5)		SB-22 (1.0-1.5)		SB-22 (5.5-6.0)	
LAB SAMPLE ID:							L2543726-04		L2542974-05		L2543250-01		L2543726-05		L2543250-02		L2543250-03		L2543250-04		L2543726-06		L2543726-07		L2543726-01		L2543726-02	
SAMPLE DATE:							7/11/2025		7/9/2025		7/10/2025		7/11/2025		7/10/2025		7/10/2025		7/10/2025		7/11/2025		7/11/2025		7/11/2025		7/11/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PFAS (EPA METHOD 1633)																												
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	763051-92-9	mg/kg	NS	NS	NS	NS	0.796	U	0.798	U	0.796	U	0.798	U	0.797	U	0.796	U	0.795	U	0.798	U	0.798	U	0.8	U	0.799	U
1H,1H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	mg/kg	NS	NS	NS	NS	0.796	U	0.798	U	0.796	U	0.798	U	0.797	U	0.796	U	0.795	U	0.798	U	0.798	U	0.8	U	0.799	U
1H,1H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	757124-72-4	mg/kg	NS	NS	NS	NS	0.796	U	0.798	U	0.796	U	0.798	U	0.797	U	0.796	U	0.795	U	0.798	U	0.798	U	0.8	U	0.799	U
1H,1H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	mg/kg	NS	NS	NS	NS	0.796	U	0.798	U	0.796	U	0.798	U	0.797	U	0.796	U	0.795	U	0.798	U	0.798	U	0.8	U	0.799	U
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	914637-49-3	mg/kg	NS	NS	NS	NS	4.98	U	4.99	U	4.98	U	4.99	U	4.98	U	4.98	U	4.97	U	4.98	U	4.99	U	5	U	4.99	U
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	812-70-4	mg/kg	NS	NS	NS	NS	4.98	U	4.99	U	4.98	U	4.99	U	4.98	U	4.98	U	4.97	U	4.98	U	4.99	U	5	U	4.99	U
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	356-02-5	mg/kg	NS	NS	NS	NS	0.995	U	0.998	U	0.995	U	0.997	U	0.996	U	0.995	U	0.994	U	0.997	U	0.998	U	1	U	0.999	U
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	919005-14-4	mg/kg	NS	NS	NS	NS	0.796	U	0.798	U	0.796	U	0.798	U	0.797	U	0.796	U	0.795	U	0.798	U	0.798	U	0.8	U	0.799	U
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	756426-58-1	mg/kg	NS	NS	NS	NS	0.796	U	0.798	U	0.796	U	0.798	U	0.797	U	0.796	U	0.795	U	0.798	U	0.798	U	0.8	U	0.799	U
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	13252-13-6	mg/kg	NS	NS	NS	NS	0.796	U	0.798	U	0.796	U	0.798	U	0.797	U	0.796	U	0.795	U	0.798	U	0.798	U	0.8	U	0.799	U
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	4151-50-2	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U	0.2	U	0.2	U	0.2	U
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	1691-99-2	mg/kg	NS	NS	NS	NS	1.99	U	2	U	1.99	U	1.99	U	1.99	U	1.99	U	1.99	U	1.99	U	2	U	2	U	2	U
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U	0.2	U	0.2	U	0.2	U
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	31506-32-8	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U	0.2	U	0.2	U	0.2	U
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	24448-09-7	mg/kg	NS	NS	NS	NS	1.99	U	2	U	1.99	U	1.99	U	1.99	U	1.99	U	1.99	U	1.99	U	2	U	2	U	2	U
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U	0.2	U	0.2	U	0.2	U
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	151772-58-6	mg/kg	NS	NS	NS	NS	0.398	U	0.399	U	0.398	U	0.399	U	0.398	U	0.398	U	0.398	U	0.399	U	0.399	U	0.4	U	0.399	U
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	113507-82-7	mg/kg	NS	NS	NS	NS	0.398	U	0.399	U	0.398	U	0.399	U	0.398	U	0.398	U	0.398	U	0.399	U	0.399	U	0.4	U	0.399	U
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	377-73-1	mg/kg	NS	NS	NS	NS	0.398	U	0.399	U	0.398	U	0.399	U	0.398	U	0.398	U	0.398	U	0.399	U	0.399	U	0.4	U	0.399	U
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	863090-89-5	mg/kg	NS	NS	NS	NS	0.398	U	0.399	U	0.398	U	0.399	U	0.398	U	0.398	U	0.398	U	0.399	U	0.399	U	0.4	U	0.399	U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U	0.2	U	0.2	U	0.2	U
Perfluorobutanoic Acid (PFBA)	375-22-4	mg/kg	NS	NS	NS	NS	0.796	U	0.798	U	0.796	U	0.798	U	0.797	U	0.796	U	0.795	U	0.798	U	0.798	U	0.8	U	0.799	U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U	0.2	U	0.2	U	0.2	U
Perfluorodecanoic Acid (PFDA)	335-76-2	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U	0.2	U	0.2	U	0.2	U
Perfluorododecanesulfonic Acid (PFDoS)	79780-39-5	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U	0.2	U	0.2	U	0.2	U
Perfluorododecanoic Acid (PFDoA)	307-55-1	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U	0.2	U	0.2	U	0.2	U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.056	J	0.199	U	0.2	U	0.2	U	0.2	U
Perfluoroheptanoic Acid (PFHpA)	375-85-9	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.079	J	0.029	J	0.2	U	0.2	U	0.2	U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.158	J	0.034	J	0.029	JF	0.2	U	0.2	U
Perfluorohexanoic Acid (PFHxA)	307-24-4	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U	0.2	U	0.2	U	0.2	U
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U	0.2	U	0.2	U	0.2	U
Perfluorononanoic Acid (PFNA)	375-95-1	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U	0.2	U	0.2	U	0.2	U
Perfluorooctanesulfonamide (PFOSA)	754-91-6	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U	0.2	U	0.2	U	0.2	U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	mg/kg	0.88	44	440	1.0	0.032	J	0.2	U	0.199	U	0.199	U	0.036	J	0.199	U	3.34		0.406	0	0.103	J	0.2	U	0.2	U
Perfluorooctanoic Acid (PFOA)	335-67-1	mg/kg	0.66	33	500	0.8	0.199	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.132	J	0.042	J	0.04	J	0.2	U	0.2	U
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U	0.2	U	0.2	U	0.2	U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	mg/kg	NS	NS	NS	NS	0.398	U	0.399	U	0.398	U	0.399	U	0.398	U	0.398	U	0.398	U	0.399	U	0.399	U	0.4	U	0.399	U
Perfluorotetradecanoic Acid (PFTeDA)	376-06-7	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U	0.2	U	0.2	U	0.2	U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U	0.2	U	0.2	U	0.2	U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U	0.2	U	0.2	U	0.2	U

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs
Concentration Exceeds NYSDEC RRUSCOs
Concentration Exceeds NYSDEC UUSCOs
Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

TABLE 5.6
SUMMARY OF SOIL SAMPLING RESULTS—PFAS

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-22 (11.5-12.0)		SB-23 (1-1.5)		SB-23 (5.5-6)		SB-24 (3.5-4)		SB-24 (7-7.5)		SB-25 (4.5-5)		SB-25 (7.5-8)		SB-25 (11-11.5)		SB-26 (4-4.5)		SB-26 (6.5-7)		SB-26 (12-12.5)	
LAB SAMPLE ID:							L2543726-03		L2547611-04		L2547611-03		L2547611-08		L2547611-09		L2547611-07		L2547611-05		L2547611-06		L2547764-15		L2547764-16		L2547764-17	
SAMPLE DATE:							7/11/2025		7/29/2025		7/29/2025		7/29/2025		7/29/2025		7/29/2025		7/29/2025		7/29/2025		7/30/2025		7/30/2025		7/30/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PFAS (EPA METHOD 1633)																												
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	763051-92-9	mg/kg	NS	NS	NS	NS	0.796	U	0.8	U	0.792	U	0.791	U	0.795	U	0.789	U	0.8	U	0.792	U	0.799	U	0.798	U	0.798	U
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	mg/kg	NS	NS	NS	NS	0.796	U	0.8	U	0.792	U	0.791	U	0.795	U	0.789	U	0.8	U	0.792	U	0.799	U	0.798	U	0.798	U
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	757124-72-4	mg/kg	NS	NS	NS	NS	0.796	U	0.8	U	0.792	U	0.791	U	0.795	U	0.789	U	0.8	U	0.792	U	0.799	U	0.798	U	0.798	U
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	mg/kg	NS	NS	NS	NS	0.796	U	0.8	U	0.792	U	0.791	U	0.795	U	0.789	U	0.8	U	0.792	U	0.799	U	0.798	U	0.798	U
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	914637-49-3	mg/kg	NS	NS	NS	NS	4.98	U	5	U	4.95	U	4.94	U	4.97	U	4.93	U	5	U	4.95	U	5	U	4.99	U	4.99	U
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	812-70-4	mg/kg	NS	NS	NS	NS	4.98	U	5	U	4.95	U	4.94	U	4.97	U	4.93	U	5	U	4.95	U	5	U	4.99	U	4.99	U
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	356-02-5	mg/kg	NS	NS	NS	NS	0.995	U	0.999	U	0.989	U	0.988	U	0.994	U	0.986	U	1	U	0.99	U	0.999	U	0.998	U	0.998	U
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	919005-14-4	mg/kg	NS	NS	NS	NS	0.796	U	0.8	U	0.792	U	0.791	U	0.795	U	0.789	U	0.8	U	0.792	U	0.799	U	0.798	U	0.798	U
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	756426-58-1	mg/kg	NS	NS	NS	NS	0.796	U	0.8	U	0.792	U	0.791	U	0.795	U	0.789	U	0.8	U	0.792	U	0.799	U	0.798	U	0.798	U
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	13252-13-6	mg/kg	NS	NS	NS	NS	0.796	U	0.8	U	0.792	U	0.791	U	0.795	U	0.789	U	0.8	U	0.792	U	0.799	U	0.798	U	0.798	U
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	4151-50-2	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.198	U	0.198	U	0.199	U	0.197	U	0.2	U	0.198	U	0.2	U	0.2	U	0.2	U
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	1691-99-2	mg/kg	NS	NS	NS	NS	1.99	U	2	U	1.98	U	1.98	U	1.99	U	1.97	U	2	U	1.98	U	2	U	2	U	2	U
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.198	U	0.198	U	0.199	U	0.197	U	0.2	U	0.198	U	0.2	U	0.2	U	0.2	U
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	31506-32-8	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.198	U	0.198	U	0.199	U	0.197	U	0.2	U	0.198	U	0.2	U	0.2	U	0.2	U
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	24448-09-7	mg/kg	NS	NS	NS	NS	1.99	U	2	U	1.98	U	1.98	U	1.99	U	1.97	U	2	U	1.98	U	2	U	2	U	2	U
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.198	U	0.198	U	0.199	U	0.197	U	0.2	U	0.198	U	0.2	U	0.2	U	0.2	U
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	151772-58-6	mg/kg	NS	NS	NS	NS	0.398	U	0.4	U	0.396	U	0.395	U	0.397	U	0.395	U	0.4	U	0.396	U	0.4	U	0.399	U	0.399	U
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	113507-82-7	mg/kg	NS	NS	NS	NS	0.398	U	0.4	U	0.396	U	0.395	U	0.397	U	0.395	U	0.4	U	0.396	U	0.4	U	0.399	U	0.399	U
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	377-73-1	mg/kg	NS	NS	NS	NS	0.398	U	0.4	U	0.396	U	0.395	U	0.397	U	0.395	U	0.4	U	0.396	U	0.4	U	0.399	U	0.399	U
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	863090-89-5	mg/kg	NS	NS	NS	NS	0.398	U	0.4	U	0.396	U	0.395	U	0.397	U	0.395	U	0.4	U	0.396	U	0.4	U	0.399	U	0.399	U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.198	U	0.198	U	0.199	U	0.197	U	0.2	U	0.198	U	0.033	J	0.2	U	0.2	U
Perfluorobutanoic Acid (PFBA)	375-22-4	mg/kg	NS	NS	NS	NS	0.796	U	0.8	U	0.792	U	0.791	U	0.795	U	0.789	U	0.8	U	0.792	U	0.799	U	0.798	U	0.798	U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.198	U	0.198	U	0.199	U	0.197	U	0.2	U	0.198	U	0.2	U	0.2	U	0.2	U
Perfluorodecanoic Acid (PFDA)	335-76-2	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.051	J	0.198	U	0.199	U	0.197	U	0.2	U	0.198	U	0.2	U	0.2	U	0.2	U
Perfluorododecanesulfonic Acid (PFDoS)	79780-39-5	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.198	U	0.198	U	0.199	U	0.197	U	0.2	U	0.198	U	0.2	U	0.2	U	0.2	U
Perfluorododecanoic Acid (PFDoA)	307-55-1	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.198	U	0.198	U	0.199	U	0.197	U	0.2	U	0.198	U	0.2	U	0.2	U	0.2	U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.198	U	0.198	U	0.199	U	0.197	U	0.2	U	0.198	U	0.2	U	0.2	U	0.2	U
Perfluoroheptanoic Acid (PFHpA)	375-85-9	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.198	U	0.198	U	0.199	U	0.197	U	0.038	J	0.198	U	0.058	J	0.2	U	0.2	U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.198	U	0.198	U	0.199	U	0.197	U	0.2	U	0.198	U	0.2	U	0.2	U	0.2	U
Perfluorohexanoic Acid (PFHxA)	307-24-4	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.198	U	0.198	U	0.199	U	0.197	U	0.141	J	0.198	U	0.058	J	0.2	U	0.2	U
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.198	U	0.198	U	0.199	U	0.197	U	0.2	U	0.198	U	0.2	U	0.2	U	0.2	U
Perfluorononanoic Acid (PFNA)	375-95-1	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.198	U	0.198	U	0.199	U	0.197	U	0.036	J	0.198	U	0.022	JF	0.2	U	0.2	U
Perfluorooctanesulfonamide (PFOSA)	754-91-6	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.198	U	0.198	U	0.199	U	0.197	U	0.2	U	0.198	U	0.2	U	0.2	U	0.2	U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	mg/kg	0.88	44	440	1.0	0.059	J	0.108	J	0.457		0.14	J	0.199	U	0.043	J	0.078	J	0.198	U	0.111	J	0.035	J	0.034	J
Perfluorooctanoic Acid (PFOA)	335-67-1	mg/kg	0.66	33	500	0.8	0.199	U	0.2	U	0.198	U	0.038	J	0.199	U	0.197	U	0.211	0	0.198	U	0.207		0.2	U	0.2	U
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.198	U	0.198	U	0.199	U	0.197	U	0.2	U	0.198	U	0.2	U	0.2	U	0.2	U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	mg/kg	NS	NS	NS	NS	0.398	U	0.4	U	0.396	U	0.395	U	0.397	U	0.395	U	0.045	J	0.396	U	0.066	J	0.399	U	0.399	U
Perfluorotetradecanoic Acid (PFTeDA)	376-06-7	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.198	U	0.198	U	0.199	U	0.197	U	0.2	U	0.198	U	0.2	U	0.2	U	0.2	U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.198	U	0.198	U	0.199	U	0.197	U	0.2	U	0.198	U	0.2	U	0.2	U	0.2	U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	mg/kg	NS	NS	NS	NS	0.199	U	0.034	J	0.198	U	0.198	U	0.199	U	0.197	U	0.2	U	0.198	U	0.2	U	0.2	U	0.2	U

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs
Concentration Exceeds NYSDEC RRUSCOs
Concentration Exceeds NYSDEC UUSCOs
Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

SESI CONSULTING ENGINEERS

REMEDIAL INVESTIGATION REPORT

TABLE 5.6
SUMMARY OF SOIL SAMPLING RESULTS—PFAS

26-28, 40, 60 East Post Road
223-225 Dr. MLK Jr. Blvd.
and Brookfield Street
White Plains, NY

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-27 (3-3.5)		SB-27 (7-7.5)		SB-27 (10-10.5)		SB-28 (1-1.5)		SB-28 (8-8.5)		SB-28 (10-10.5)		SB-29 (2.5-3)		SB-29 (8-8.5)		SB-29 (10.5-11)		SB-30 (2.5-3)		SB-30 (7.5-8)	
LAB SAMPLE ID:							L2547764-12		L2547764-14		L2547764-13		L2547764-09		L2547764-10		L2547764-11		L2547764-06		L2547764-07		L2547764-08		L2548308-07		L2548308-08	
SAMPLE DATE:							7/30/2025		7/30/2025		7/30/2025		7/30/2025		7/30/2025		7/30/2025		7/30/2025		7/30/2025		7/30/2025		7/31/2025		7/31/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PFAS (EPA METHOD 1633)																												
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	763051-92-9	mg/kg	NS	NS	NS	NS	0.798	U	0.8	U	0.799	U	0.799	U	0.8	U	0.8	U	0.798	U	0.8	U	0.797	U	0.8	U	0.796	U
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	mg/kg	NS	NS	NS	NS	0.798	U	0.8	U	0.799	U	0.799	U	0.8	U	0.8	U	0.798	U	0.8	U	0.797	U	0.8	U	0.796	U
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	757124-72-4	mg/kg	NS	NS	NS	NS	0.798	U	0.8	U	0.799	U	0.799	U	0.8	U	0.8	U	0.798	U	0.8	U	0.797	U	0.8	U	0.796	U
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	mg/kg	NS	NS	NS	NS	0.798	U	0.8	U	0.799	U	0.799	U	0.8	U	0.8	U	0.798	U	0.8	U	0.797	U	0.8	U	0.796	U
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	914637-49-3	mg/kg	NS	NS	NS	NS	4.99	U	5	U	4.99	U	4.99	U	5	U	5	U	4.99	U	5	U	4.98	U	5	U	4.98	U
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	812-70-4	mg/kg	NS	NS	NS	NS	4.99	U	5	U	4.99	U	4.99	U	5	U	5	U	4.99	U	5	U	4.98	U	5	U	4.98	U
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	356-02-5	mg/kg	NS	NS	NS	NS	0.998	U	1	U	0.999	U	0.998	U	1	U	1	U	0.997	U	1	U	0.996	U	1	U	0.995	U
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	919005-14-4	mg/kg	NS	NS	NS	NS	0.798	U	0.8	U	0.799	U	0.799	U	0.8	U	0.8	U	0.798	U	0.8	U	0.797	U	0.8	U	0.796	U
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	756426-58-1	mg/kg	NS	NS	NS	NS	0.798	U	0.8	U	0.799	U	0.799	U	0.8	U	0.8	U	0.798	U	0.8	U	0.797	U	0.8	U	0.796	U
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	13252-13-6	mg/kg	NS	NS	NS	NS	0.798	U	0.8	U	0.799	U	0.799	U	0.8	U	0.8	U	0.798	U	0.8	U	0.797	U	0.8	U	0.796	U
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	4151-50-2	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.199	U
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	1691-99-2	mg/kg	NS	NS	NS	NS	2	U	2	U	2	U	2	U	2	U	2	U	1.99	U	2	U	1.99	U	2	U	1.99	U
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.199	U
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	31506-32-8	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.199	U
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	24448-09-7	mg/kg	NS	NS	NS	NS	2	U	2	U	2	U	2	U	2	U	2	U	1.99	U	2	U	1.99	U	2	U	1.99	U
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.199	U
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	151772-58-6	mg/kg	NS	NS	NS	NS	0.399	U	0.4	U	0.399	U	0.399	U	0.4	U	0.4	U	0.399	U	0.4	U	0.398	U	0.4	U	0.398	U
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	113507-82-7	mg/kg	NS	NS	NS	NS	0.399	U	0.4	U	0.399	U	0.399	U	0.4	U	0.4	U	0.399	U	0.4	U	0.398	U	0.4	U	0.398	U
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	377-73-1	mg/kg	NS	NS	NS	NS	0.399	U	0.4	U	0.399	U	0.399	U	0.4	U	0.4	U	0.399	U	0.4	U	0.398	U	0.4	U	0.398	U
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	863090-89-5	mg/kg	NS	NS	NS	NS	0.399	U	0.4	U	0.399	U	0.399	U	0.4	U	0.4	U	0.399	U	0.4	U	0.398	U	0.4	U	0.398	U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	mg/kg	NS	NS	NS	NS	0.024	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.199	U
Perfluorobutanoic Acid (PFBA)	375-22-4	mg/kg	NS	NS	NS	NS	0.798	U	0.8	U	0.799	U	0.799	U	0.8	U	0.8	U	0.031	J	0.8	U	0.797	U	0.049	J	0.796	U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.199	U
Perfluorodecanoic Acid (PFDA)	335-76-2	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.199	U	0.04	J	0.199	U
Perfluorododecanesulfonic Acid (PFDoS)	79780-39-5	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.199	U
Perfluorododecanoic Acid (PFDoA)	307-55-1	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.199	U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.199	U
Perfluoroheptanoic Acid (PFHpA)	375-85-9	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.199	U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.199	U
Perfluorohexanoic Acid (PFHxA)	307-24-4	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.2	U	0.023	J	0.2	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.199	U
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.199	U
Perfluorononanoic Acid (PFNA)	375-95-1	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.199	U
Perfluorooctanesulfonamide (PFOSA)	754-91-6	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.199	U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	mg/kg	0.88	44	440	1.0	0.057	J	0.2	U	0.2	U	0.092	J	0.2	U	0.2	U	0.101	J	0.096	J	0.075	J	0.105	J	0.199	U
Perfluorooctanoic Acid (PFOA)	335-67-1	mg/kg	0.66	33	500	0.8	0.2	U	0.2	U	0.2	U	0.04	J	0.2	U	0.2	U	0.199	U	0.2	U	0.199	U	0.032	J	0.199	U
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.199	U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	mg/kg	NS	NS	NS	NS	0.399	U	0.4	U	0.399	U	0.399	U	0.4	U	0.4	U	0.399	U	0.4	U	0.398	U	0.4	U	0.398	U
Perfluorotetradecanoic Acid (PFTeDA)	376-06-7	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.199	U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.199	U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.199	U

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs
Concentration Exceeds NYSDEC RRUSCOs
Concentration Exceeds NYSDEC UUSCOs
Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-30 (10.5-11)		SB-31 (4.5-5.0)		SB-31 (9.5-10)		SB-31 (10.5-11)		SB-32 (1-1.5)		SB-32 (4-4.5)		SB-32 (13.5-14)		SB-33 (4-4.5)		SB-33 (6-6.5)		SB-33 (11.5-12)		SB-34 (2.5-3)	
LAB SAMPLE ID:							L2548308-09		L2548308-10		L2548308-12		L2548308-11		L2548308-14		L2548308-13		L2548308-15		L2548308-16		L2548308-17		L2548308-18		L2548308-04	
SAMPLE DATE:							7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PFAS (EPA METHOD 1633)																												
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	763051-92-9	mg/kg	NS	NS	NS	NS	0.8	U	0.796	U	0.798	U	0.799	U	0.795	U	0.797	U	0.8	U	0.795	U	0.8	U	0.795	U	0.799	U
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	mg/kg	NS	NS	NS	NS	0.8	U	0.796	U	0.798	U	0.799	U	0.795	U	0.797	U	0.8	U	0.795	U	0.8	U	0.795	U	0.799	U
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	757124-72-4	mg/kg	NS	NS	NS	NS	0.8	U	0.796	U	0.798	U	0.799	U	0.795	U	0.797	U	0.8	U	0.795	U	0.8	U	0.795	U	0.799	U
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	mg/kg	NS	NS	NS	NS	0.8	U	0.796	U	0.798	U	0.799	U	0.795	U	0.797	U	0.8	U	0.795	U	0.8	U	0.795	U	0.799	U
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	914637-49-3	mg/kg	NS	NS	NS	NS	5	U	4.97	U	4.99	U	4.99	U	4.97	U	4.98	U	5	U	4.97	U	5	U	4.97	U	4.99	U
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	812-70-4	mg/kg	NS	NS	NS	NS	5	U	4.97	U	4.99	U	4.99	U	4.97	U	4.98	U	5	U	4.97	U	5	U	4.97	U	4.99	U
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	356-02-5	mg/kg	NS	NS	NS	NS	1	U	0.994	U	0.998	U	0.999	U	0.994	U	0.997	U	1	U	0.994	U	0.999	U	0.994	U	0.999	U
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	919005-14-4	mg/kg	NS	NS	NS	NS	0.8	U	0.796	U	0.798	U	0.799	U	0.795	U	0.797	U	0.8	U	0.795	U	0.8	U	0.795	U	0.799	U
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	756426-58-1	mg/kg	NS	NS	NS	NS	0.8	U	0.796	U	0.798	U	0.799	U	0.795	U	0.797	U	0.8	U	0.795	U	0.8	U	0.795	U	0.799	U
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	13252-13-6	mg/kg	NS	NS	NS	NS	0.8	U	0.796	U	0.798	U	0.799	U	0.795	U	0.797	U	0.8	U	0.795	U	0.8	U	0.795	U	0.799	U
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	4151-50-2	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.2	U	0.2	U	0.199	U	0.199	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	1691-99-2	mg/kg	NS	NS	NS	NS	2	U	1.99	U	2	U	2	U	1.99	U	1.99	U	2	U	1.99	U	2	U	1.99	U	2	U
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.2	U	0.2	U	0.199	U	0.199	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	31506-32-8	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.2	U	0.2	U	0.199	U	0.199	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	24448-09-7	mg/kg	NS	NS	NS	NS	2	U	1.99	U	2	U	2	U	1.99	U	1.99	U	2	U	1.99	U	2	U	1.99	U	2	U
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.2	U	0.2	U	0.199	U	0.199	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	151772-58-6	mg/kg	NS	NS	NS	NS	0.4	U	0.398	U	0.399	U	0.4	U	0.398	U	0.399	U	0.4	U	0.398	U	0.4	U	0.398	U	0.4	U
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	113507-82-7	mg/kg	NS	NS	NS	NS	0.4	U	0.398	U	0.399	U	0.4	U	0.398	U	0.399	U	0.4	U	0.398	U	0.4	U	0.398	U	0.4	U
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	377-73-1	mg/kg	NS	NS	NS	NS	0.4	U	0.398	U	0.399	U	0.4	U	0.398	U	0.399	U	0.4	U	0.398	U	0.4	U	0.398	U	0.4	U
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	863090-89-5	mg/kg	NS	NS	NS	NS	0.4	U	0.398	U	0.399	U	0.4	U	0.398	U	0.399	U	0.4	U	0.398	U	0.4	U	0.398	U	0.4	U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.2	U	0.2	U	0.199	U	0.199	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U
Perfluorobutanoic Acid (PFBA)	375-22-4	mg/kg	NS	NS	NS	NS	0.8	U	0.796	U	0.798	U	0.799	U	0.795	U	0.797	U	0.8	U	0.795	U	0.8	U	0.795	U	0.799	U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.2	U	0.2	U	0.199	U	0.199	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U
Perfluorodecanoic Acid (PFDA)	335-76-2	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.2	U	0.2	U	0.199	U	0.199	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U
Perfluorododecanesulfonic Acid (PFDoS)	79780-39-5	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.2	U	0.2	U	0.199	U	0.199	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U
Perfluorododecanoic Acid (PFDoA)	307-55-1	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.2	U	0.2	U	0.199	U	0.199	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.2	U	0.2	U	0.199	U	0.199	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U
Perfluoroheptanoic Acid (PFHpA)	375-85-9	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.2	U	0.2	U	0.199	U	0.199	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.2	U	0.2	U	0.199	U	0.199	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U
Perfluorohexanoic Acid (PFHxA)	307-24-4	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.2	U	0.2	U	0.199	U	0.018	J	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.2	U	0.2	U	0.199	U	0.199	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U
Perfluorononanoic Acid (PFNA)	375-95-1	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.2	U	0.2	U	0.06	J	0.199	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U
Perfluorooctanesulfonamide (PFOSA)	754-91-6	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.2	U	0.2	U	0.199	U	0.199	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	mg/kg	0.88	44	440	1.0	0.033	J	0.199	U	0.2	U	0.2	U	0.2		0.055	J	0.2	U	0.047	J	0.049	J	0.199	U	0.038	J
Perfluorooctanoic Acid (PFOA)	335-67-1	mg/kg	0.66	33	500	0.8	0.2	U	0.199	U	0.2	U	0.2	U	0.056	J	0.199	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.2	U	0.2	U	0.199	U	0.199	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	mg/kg	NS	NS	NS	NS	0.4	U	0.398	U	0.399	U	0.4	U	0.398	U	0.399	U	0.4	U	0.398	U	0.4	U	0.398	U	0.4	U
Perfluorotetradecanoic Acid (PFTeDA)	376-06-7	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.2	U	0.2	U	0.199	U	0.199	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.2	U	0.2	U	0.199	U	0.199	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.2	U	0.2	U	0.199	U	0.199	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs
Concentration Exceeds NYSDEC RRUSCOs
Concentration Exceeds NYSDEC UUSCOs
Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-34 (7-7.5)		SB-34 (10.5-11)		SB-35 (0.5-1)		SB-35 (9-9.5)		SB-35 (11.5-12)		SB-36 (4-5)		SB-36 (8-9)		SB-37 (4-4.5)		SB-37 (8.5-9)		SB-37 (11.5-12)		SB-37 (17-17.5)	
LAB SAMPLE ID:							L2548308-05		L2548308-06		L2548308-01		L2548308-02		L2548308-03		L2548397-02		L2548397-01		L2548309-03		L2548309-02		L2548309-04		L2548309-01	
SAMPLE DATE:							7/31/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		8/1/2025		8/1/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PFAS (EPA METHOD 1633)																												
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	763051-92-9	mg/kg	NS	NS	NS	NS	0.797	U	0.797	U	0.799	U	0.8	U	0.795	U	0.796	U	0.798	U	0.794	U	0.796	U	0.797	U	0.794	U
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	mg/kg	NS	NS	NS	NS	0.797	U	0.797	U	0.799	U	0.8	U	0.795	U	0.796	U	0.798	U	0.794	U	0.796	U	0.797	U	0.794	U
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	757124-72-4	mg/kg	NS	NS	NS	NS	0.797	U	0.797	U	0.799	U	0.8	U	0.795	U	0.796	U	0.798	U	0.794	U	0.796	U	0.797	U	0.794	U
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	mg/kg	NS	NS	NS	NS	0.797	U	0.797	U	0.799	U	0.8	U	0.795	U	0.796	U	0.798	U	0.794	U	0.796	U	0.797	U	0.794	U
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	914637-49-3	mg/kg	NS	NS	NS	NS	4.98	U	4.98	U	4.99	U	5	U	4.97	U	4.97	U	4.99	U	4.96	U	4.97	U	4.98	U	4.96	U
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	812-70-4	mg/kg	NS	NS	NS	NS	4.98	U	4.98	U	4.99	U	5	U	4.97	U	4.97	U	4.99	U	4.96	U	4.97	U	4.98	U	4.96	U
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	356-02-5	mg/kg	NS	NS	NS	NS	0.996	U	0.996	U	0.999	U	1	U	0.994	U	0.995	U	0.998	U	0.993	U	0.995	U	0.996	U	0.993	U
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	919005-14-4	mg/kg	NS	NS	NS	NS	0.797	U	0.797	U	0.799	U	0.8	U	0.795	U	0.796	U	0.798	U	0.794	U	0.796	U	0.797	U	0.794	U
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	756426-58-1	mg/kg	NS	NS	NS	NS	0.797	U	0.797	U	0.799	U	0.8	U	0.795	U	0.796	U	0.798	U	0.794	U	0.796	U	0.797	U	0.794	U
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	13252-13-6	mg/kg	NS	NS	NS	NS	0.797	U	0.797	U	0.799	U	0.8	U	0.795	U	0.796	U	0.798	U	0.794	U	0.796	U	0.797	U	0.794	U
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	4151-50-2	mg/kg	NS	NS	NS	NS	0.199	U	0.199	U	0.2	U	0.2	U	0.199	U	0.199	U	0.2	U	0.198	U	0.199	U	0.199	U	0.199	U
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	1691-99-2	mg/kg	NS	NS	NS	NS	1.99	U	1.99	U	2	U	2	U	1.99	U	1.99	U	2	U	1.98	U	1.99	U	1.99	U	1.99	U
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	mg/kg	NS	NS	NS	NS	0.199	U	0.199	U	0.2	U	0.2	U	0.199	U	0.199	U	0.2	U	0.198	U	0.199	U	0.199	U	0.199	U
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	31506-32-8	mg/kg	NS	NS	NS	NS	0.199	U	0.199	U	0.2	U	0.2	U	0.199	U	0.199	U	0.2	U	0.198	U	0.199	U	0.199	U	0.199	U
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	24448-09-7	mg/kg	NS	NS	NS	NS	1.99	U	1.99	U	2	U	2	U	1.99	U	1.99	U	2	U	1.98	U	1.99	U	1.99	U	1.99	U
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	mg/kg	NS	NS	NS	NS	0.199	U	0.199	U	0.2	U	0.2	U	0.199	U	0.199	U	0.2	U	0.198	U	0.199	U	0.199	U	0.199	U
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	151772-58-6	mg/kg	NS	NS	NS	NS	0.398	U	0.398	U	0.399	U	0.4	U	0.398	U	0.398	U	0.399	U	0.397	U	0.398	U	0.398	U	0.397	U
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	113507-82-7	mg/kg	NS	NS	NS	NS	0.398	U	0.398	U	0.399	U	0.4	U	0.398	U	0.398	U	0.399	U	0.397	U	0.398	U	0.398	U	0.397	U
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	377-73-1	mg/kg	NS	NS	NS	NS	0.398	U	0.398	U	0.399	U	0.4	U	0.398	U	0.398	U	0.399	U	0.397	U	0.398	U	0.398	U	0.397	U
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	863090-89-5	mg/kg	NS	NS	NS	NS	0.398	U	0.398	U	0.399	U	0.4	U	0.398	U	0.398	U	0.399	U	0.397	U	0.398	U	0.398	U	0.397	U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	mg/kg	NS	NS	NS	NS	0.199	U	0.199	U	0.2	U	0.2	U	0.199	U	0.199	U	0.2	U	0.045	J	0.049	J	0.044	J	0.043	J
Perfluorobutanoic Acid (PFBA)	375-22-4	mg/kg	NS	NS	NS	NS	0.797	U	0.797	U	0.799	U	0.8	U	0.795	U	0.796	U	0.798	U	0.069	J	0.095	J	0.112	J	0.074	J
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	mg/kg	NS	NS	NS	NS	0.199	U	0.199	U	0.2	U	0.2	U	0.199	U	0.199	U	0.2	U	0.198	U	0.199	U	0.199	U	0.199	U
Perfluorodecanoic Acid (PFDA)	335-76-2	mg/kg	NS	NS	NS	NS	0.199	U	0.199	U	0.04	J	0.2	U	0.199	U	0.199	U	0.2	U	0.198	U	0.199	U	0.199	U	0.199	U
Perfluorododecanesulfonic Acid (PFDoS)	79780-39-5	mg/kg	NS	NS	NS	NS	0.199	U	0.199	U	0.2	U	0.2	U	0.199	U	0.199	U	0.2	U	0.198	U	0.199	U	0.199	U	0.199	U
Perfluorododecanoic Acid (PFDoA)	307-55-1	mg/kg	NS	NS	NS	NS	0.199	U	0.199	U	0.2	U	0.2	U	0.199	U	0.199	U	0.2	U	0.198	U	0.199	U	0.199	U	0.199	U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	mg/kg	NS	NS	NS	NS	0.199	U	0.199	U	0.2	U	0.2	U	0.199	U	0.199	U	0.2	U	0.198	U	0.199	U	0.199	U	0.199	U
Perfluoroheptanoic Acid (PFHpA)	375-85-9	mg/kg	NS	NS	NS	NS	0.199	U	0.199	U	0.2	U	0.2	U	0.199	U	0.199	U	0.2	U	0.198	U	0.056	J	0.03	J	0.199	U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	mg/kg	NS	NS	NS	NS	0.199	U	0.199	U	0.2	U	0.2	U	0.199	U	0.199	U	0.2	U	0.198	U	0.061	J	0.199	U	0.199	U
Perfluorohexanoic Acid (PFHxA)	307-24-4	mg/kg	NS	NS	NS	NS	0.199	U	0.199	U	0.2	U	0.2	U	0.199	U	0.199	U	0.2	U	0.028	JF	0.055	JF	0.038	J	0.024	JF
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	mg/kg	NS	NS	NS	NS	0.199	U	0.199	U	0.2	U	0.2	U	0.199	U	0.199	U	0.2	U	0.198	U	0.199	U	0.199	U	0.199	U
Perfluorononanoic Acid (PFNA)	375-95-1	mg/kg	NS	NS	NS	NS	0.199	U	0.199	U	0.053	J	0.2	U	0.199	U	0.199	U	0.2	U	0.198	U	0.199	U	0.199	U	0.199	U
Perfluorooctanesulfonamide (PFOSA)	754-91-6	mg/kg	NS	NS	NS	NS	0.199	U	0.199	U	0.012	JF	0.2	U	0.199	U	0.199	U	0.2	U	0.198	U	0.199	U	0.199	U	0.199	U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	mg/kg	0.88	44	440	1.0	0.199	U	0.199	U	1.39		0.034	J	0.256		0.053	J	0.2	U	0.198	U	0.108	J	0.199	U	0.199	U
Perfluorooctanoic Acid (PFOA)	335-67-1	mg/kg	0.66	33	500	0.8	0.199	U	0.199	U	0.087	J	0.2	U	0.199	U	0.199	U	0.2	U	0.198	U	0.217		0.065	J	0.04	J
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	mg/kg	NS	NS	NS	NS	0.199	U	0.199	U	0.2	U	0.2	U	0.199	U	0.199	U	0.2	U	0.198	U	0.199	U	0.199	U	0.199	U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	mg/kg	NS	NS	NS	NS	0.398	U	0.398	U	0.399	U	0.4	U	0.398	U	0.398	U	0.399	U	0.397	U	0.059	J	0.047	J	0.397	U
Perfluorotetradecanoic Acid (PFTeDA)	376-06-7	mg/kg	NS	NS	NS	NS	0.199	U	0.199	U	0.2	U	0.2	U	0.199	U	0.199	U	0.2	U	0.198	U	0.199	U	0.199	U	0.199	U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	mg/kg	NS	NS	NS	NS	0.199	U	0.199	U	0.2	U	0.2	U	0.199	U	0.199	U	0.2	U	0.198	U	0.199	U	0.199	U	0.199	U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	mg/kg	NS	NS	NS	NS	0.199	U	0.199	U	0.2	U	0.2	U	0.199	U	0.199	U	0.2	U	0.198	U	0.199	U	0.199	U	0.199	U

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs
Concentration Exceeds NYSDEC RRUSCOs
Concentration Exceeds NYSDEC UUSCOs
Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-38 (2-2.5)		SB-38 (5.5-6)		SB-38 (12.5-13)		SB-38 (16.5-17)		SB-39 (2.5-3)		SB-39 (9.5-10)		SB-39 (14-14.5)		SB-39 (15.5-16)		SB-40 (1-1.5)		SB-40 (8-9)		SB-40 (13.5-14)	
LAB SAMPLE ID:							L2547764-02		L2547764-03		L2547764-04		L2547764-05		L2548309-05		L2548309-06		L2548309-07		L2548309-09		L2550303-01		L2550303-02		L2550303-03	
SAMPLE DATE:							7/30/2025		7/30/2025		7/30/2025		7/30/2025		7/31/2025		7/31/2025		7/31/2025		7/31/2025		8/11/2025		8/11/2025		8/11/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PFAS (EPA METHOD 1633)																												
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	763051-92-9	mg/kg	NS	NS	NS	NS	0.797	U	0.799	U	0.8	U	0.8	U	0.798	U	0.798	U	0.797	U	0.795	U	0.83	U	0.978	U	0.794	U
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	mg/kg	NS	NS	NS	NS	0.797	U	0.799	U	0.8	U	0.8	U	0.798	U	0.798	U	0.797	U	0.795	U	0.83	U	0.978	U	0.794	U
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	757124-72-4	mg/kg	NS	NS	NS	NS	0.797	U	0.799	U	0.8	U	0.8	U	0.08	J	0.104	J	0.116	J	0.795	U	0.83	U	0.978	U	0.794	U
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	mg/kg	NS	NS	NS	NS	0.797	U	0.799	U	0.8	U	0.8	U	0.798	U	0.798	U	0.797	U	0.795	U	0.83	U	0.978	U	0.794	U
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	914637-49-3	mg/kg	NS	NS	NS	NS	4.98	U	4.99	U	5	U	5	U	4.99	U	4.98	U	4.98	U	4.97	U	5.19	U	6.11	U	4.96	U
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	812-70-4	mg/kg	NS	NS	NS	NS	4.98	U	4.99	U	5	U	5	U	4.99	U	4.98	U	4.98	U	4.97	U	5.19	U	6.11	U	4.96	U
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	356-02-5	mg/kg	NS	NS	NS	NS	0.996	U	0.999	U	0.999	U	0.999	U	0.997	U	0.997	U	0.996	U	0.994	U	1.04	U	1.22	U	0.993	U
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	919005-14-4	mg/kg	NS	NS	NS	NS	0.797	U	0.799	U	0.8	U	0.8	U	0.798	U	0.798	U	0.797	U	0.795	U	0.83	U	0.978	U	0.794	U
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	756426-58-1	mg/kg	NS	NS	NS	NS	0.797	U	0.799	U	0.8	U	0.8	U	0.798	U	0.798	U	0.797	U	0.795	U	0.83	U	0.978	U	0.794	U
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	13252-13-6	mg/kg	NS	NS	NS	NS	0.797	U	0.799	U	0.8	U	0.8	U	0.798	U	0.04	J	0.797	U	0.795	U	0.83	U	0.978	U	0.794	U
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	4151-50-2	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.2	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.207	U	0.244	U	0.198	U
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	1691-99-2	mg/kg	NS	NS	NS	NS	1.99	U	2	U	2	U	2	U	1.99	U	1.99	U	1.99	U	1.99	U	2.07	U	2.44	U	1.98	U
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.2	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.207	U	0.244	U	0.198	U
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	31506-32-8	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.2	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.207	U	0.244	U	0.198	U
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	24448-09-7	mg/kg	NS	NS	NS	NS	1.99	U	2	U	2	U	2	U	1.99	U	1.99	U	1.99	U	1.99	U	2.07	U	2.44	U	1.98	U
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.2	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.207	U	0.244	U	0.198	U
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	151772-58-6	mg/kg	NS	NS	NS	NS	0.398	U	0.4	U	0.4	U	0.4	U	0.399	U	0.399	U	0.398	U	0.398	U	0.415	U	0.489	U	0.397	U
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	113507-82-7	mg/kg	NS	NS	NS	NS	0.398	U	0.4	U	0.4	U	0.4	U	0.399	U	0.399	U	0.047	J	0.398	U	0.415	U	0.489	U	0.397	U
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	377-73-1	mg/kg	NS	NS	NS	NS	0.398	U	0.4	U	0.4	U	0.4	U	0.018	J	0.024	J	0.027	J	0.398	U	0.415	U	0.489	U	0.397	U
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	863090-89-5	mg/kg	NS	NS	NS	NS	0.398	U	0.4	U	0.4	U	0.4	U	0.024	J	0.03	J	0.037	J	0.398	U	0.415	U	0.489	U	0.397	U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.2	U	0.2	U	0.056	J	0.065	J	0.081	J	0.199	U	0.207	U	0.244	U	0.198	U
Perfluorobutanoic Acid (PFBA)	375-22-4	mg/kg	NS	NS	NS	NS	0.797	U	0.034	J	0.8	U	0.8	U	0.11	J	0.169	J	0.183	J	0.795	U	0.83	U	0.978	U	0.794	U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.2	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.207	U	0.244	U	0.198	U
Perfluorodecanoic Acid (PFDA)	335-76-2	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.2	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.207	U	0.244	U	0.198	U
Perfluorododecanesulfonic Acid (PFDoS)	79780-39-5	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.2	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.207	U	0.244	U	0.198	U
Perfluorododecanoic Acid (PFDoA)	307-55-1	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.2	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.207	U	0.244	U	0.198	U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.2	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.207	U	0.244	U	0.198	U
Perfluoroheptanoic Acid (PFHpA)	375-85-9	mg/kg	NS	NS	NS	NS	0.026	J	0.018	JF	0.014	J	0.2	U	0.199	U	0.03	J	0.199	U	0.199	U	0.207	U	0.244	U	0.198	U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	mg/kg	NS	NS	NS	NS	0.058	J	0.262	0	0.2	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.207	U	0.244	U	0.198	U
Perfluorohexanoic Acid (PFHxA)	307-24-4	mg/kg	NS	NS	NS	NS	0.035	J	0.023	J	0.2	U	0.2	U	0.049	J	0.051	JF	0.041	JF	0.199	U	0.207	U	0.244	U	0.198	U
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.2	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.207	U	0.244	U	0.198	U
Perfluorononanoic Acid (PFNA)	375-95-1	mg/kg	NS	NS	NS	NS	0.035	JF	0.2	U	0.2	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.207	U	0.244	U	0.198	U
Perfluorooctanesulfonamide (PFOSA)	754-91-6	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.2	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.207	U	0.244	U	0.198	U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	mg/kg	0.88	44	440	1.0	0.94		0.204		0.046	J	0.039	J	0.304		0.08	J	0.199	U	0.199	U	0.207	U	0.244	U	0.198	U
Perfluorooctanoic Acid (PFOA)	335-67-1	mg/kg	0.66	33	500	0.8	0.112	J	0.082	J	0.042	J	0.2	U	0.045	J	0.107	J	0.199	U	0.199	U	0.207	U	0.244	U	0.198	U
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.2	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.207	U	0.244	U	0.198	U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	mg/kg	NS	NS	NS	NS	0.398	U	0.4	U	0.4	U	0.4	U	0.054	J	0.065	J	0.06	J	0.398	U	0.415	U	0.489	U	0.397	U
Perfluorotetradecanoic Acid (PFTeDA)	376-06-7	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.2	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.207	U	0.244	U	0.198	U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.2	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.207	U	0.244	U	0.198	U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.2	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.207	U	0.244	U	0.198	U

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs
Concentration Exceeds NYSDEC RRUSCOs
Concentration Exceeds NYSDEC UUSCOs
Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-41 (0.5-1.5)		SB-41 (7-8)		SB-42 (3-4)		SB-42 (8-9)		SB-43 (0.5-1.5)		SB-43 (9-10)		SB-44 (2-3)		SB-45 (1-2)		SB-45 (9-10)		SB-46 (1-2)		SB-46 (7-8)	
LAB SAMPLE ID:							L2550303-04		L2550303-05		L2550303-06		L2550303-07		L2550303-08		L2550303-09		L2553523-01		L2550303-11		L2550303-12		L2553533-01		L2553533-02	
SAMPLE DATE:							8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PFAS (EPA METHOD 1633)																												
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	763051-92-9	mg/kg	NS	NS	NS	NS	0.797	U	0.8	U	0.798	U	0.794	U	0.799	U	0.796	U	0.8	U	0.795	U	0.8	U	0.801	U	0.8	U
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	mg/kg	NS	NS	NS	NS	0.797	U	0.8	U	0.798	U	0.794	U	0.799	U	0.796	U	0.8	U	0.795	U	0.8	U	0.801	U	0.8	U
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	757124-72-4	mg/kg	NS	NS	NS	NS	0.797	U	0.8	U	0.798	U	0.794	U	0.799	U	0.796	U	0.8	U	0.795	U	0.8	U	0.801	U	0.8	U
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	mg/kg	NS	NS	NS	NS	0.797	U	0.8	U	0.798	U	0.794	U	0.799	U	0.796	U	0.8	U	0.795	U	0.8	U	0.801	U	0.8	U
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	914637-49-3	mg/kg	NS	NS	NS	NS	4.98	U	5	U	4.99	U	4.96	U	5	U	4.98	U	5	U	4.97	U	5	U	5	U	5	U
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	812-70-4	mg/kg	NS	NS	NS	NS	4.98	U	5	U	4.99	U	4.96	U	5	U	4.98	U	5	U	4.97	U	5	U	5	U	5	U
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	356-02-5	mg/kg	NS	NS	NS	NS	0.996	U	1	U	0.997	U	0.993	U	0.999	U	0.995	U	0.999	U	0.993	U	1	U	1	U	0.999	U
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	919005-14-4	mg/kg	NS	NS	NS	NS	0.797	U	0.8	U	0.798	U	0.794	U	0.799	U	0.796	U	0.8	U	0.795	U	0.8	U	0.801	U	0.8	U
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	756426-58-1	mg/kg	NS	NS	NS	NS	0.797	U	0.8	U	0.798	U	0.794	U	0.799	U	0.796	U	0.8	U	0.795	U	0.8	U	0.801	U	0.8	U
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	13252-13-6	mg/kg	NS	NS	NS	NS	0.797	U	0.8	U	0.798	U	0.794	U	0.799	U	0.796	U	0.8	U	0.795	U	0.8	U	0.801	U	0.8	U
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	4151-50-2	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.198	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.2	U	0.2	U
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	1691-99-2	mg/kg	NS	NS	NS	NS	1.99	U	2	U	1.99	U	1.98	U	2	U	1.99	U	2	U	1.99	U	2	U	2	U	2	U
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.198	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.2	U	0.2	U
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	31506-32-8	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.198	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.2	U	0.2	U
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	24448-09-7	mg/kg	NS	NS	NS	NS	1.99	U	2	U	1.99	U	1.98	U	2	U	1.99	U	2	U	1.99	U	2	U	2	U	2	U
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.198	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.2	U	0.2	U
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	151772-58-6	mg/kg	NS	NS	NS	NS	0.398	U	0.4	U	0.399	U	0.397	U	0.4	U	0.398	U	0.4	U	0.397	U	0.4	U	0.4	U	0.4	U
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	113507-82-7	mg/kg	NS	NS	NS	NS	0.398	U	0.4	U	0.399	U	0.397	U	0.4	U	0.398	U	0.4	U	0.397	U	0.4	U	0.4	U	0.4	U
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	377-73-1	mg/kg	NS	NS	NS	NS	0.398	U	0.4	U	0.399	U	0.397	U	0.4	U	0.398	U	0.4	U	0.397	U	0.4	U	0.4	U	0.4	U
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	863090-89-5	mg/kg	NS	NS	NS	NS	0.398	U	0.4	U	0.399	U	0.397	U	0.4	U	0.398	U	0.4	U	0.397	U	0.4	U	0.4	U	0.4	U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.198	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.2	U	0.2	U
Perfluorobutanoic Acid (PFBA)	375-22-4	mg/kg	NS	NS	NS	NS	0.797	U	0.8	U	0.798	U	0.794	U	0.799	U	0.796	U	0.045	J	0.03	J	0.8	U	0.801	U	0.8	U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.198	U	0.2	U	0.199	U	0.2	U	0.199	U	0.05	J	0.2	U	0.2	U
Perfluorodecanoic Acid (PFDA)	335-76-2	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.198	U	0.2	U	0.199	U	0.168	J	0.199	U	0.193	J	0.2	U	0.2	U
Perfluorododecanesulfonic Acid (PFDoS)	79780-39-5	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.198	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.2	U	0.2	U
Perfluorododecanoic Acid (PFDoA)	307-55-1	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.198	U	0.2	U	0.199	U	0.2	U	0.199	U	0.042	J	0.2	U	0.2	U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.198	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.2	U	0.2	U
Perfluoroheptanoic Acid (PFHpA)	375-85-9	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.198	U	0.2	U	0.199	U	0.024	J	0.013	J	0.2	U	0.2	U	0.2	U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.198	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.2	U	0.2	U
Perfluorohexanoic Acid (PFHxA)	307-24-4	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.198	U	0.2	U	0.199	U	0.028	J	0.018	J	0.2	U	0.2	U	0.2	U
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.198	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.2	U	0.2	U
Perfluorononanoic Acid (PFNA)	375-95-1	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.198	U	0.2	U	0.199	U	0.03	J	0.199	U	0.019	J	0.022	JF	0.2	U
Perfluorooctanesulfonamide (PFOSA)	754-91-6	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.198	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.2	U	0.2	U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	mg/kg	0.88	44	440	1.0	0.151	J	0.2	U	0.034	J	0.198	U	0.035	J	0.048	J	0.333		0.056	JF	0.09	J	0.104	J	0.035	J
Perfluorooctanoic Acid (PFOA)	335-67-1	mg/kg	0.66	33	500	0.8	0.199	U	0.2	U	0.199	U	0.198	U	0.2	U	0.199	U	0.043	J	0.072	J	0.2	U	0.2	U	0.2	U
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.198	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.2	U	0.2	U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	mg/kg	NS	NS	NS	NS	0.398	U	0.4	U	0.399	U	0.397	U	0.4	U	0.398	U	0.4	U	0.397	U	0.4	U	0.4	U	0.4	U
Perfluorotetradecanoic Acid (PFTeDA)	376-06-7	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.198	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.2	U	0.2	U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.198	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.2	U	0.2	U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.199	U	0.198	U	0.2	U	0.199	U	0.2	U	0.199	U	0.034	J	0.2	U	0.2	U

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs
Concentration Exceeds NYSDEC RRUSCOs
Concentration Exceeds NYSDEC UUSCOs
Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-47 (4-5)		SB-47 (9-10)		SB-50 (4-5)		SB-50 (6.5-7.5)		SB-51 (2-3)		SB-51 (9-10)		SB-52 (2-3)		SB-52 (7.5-8.5)		SB-56 (1-2)		SB-56 (9-10)		SB-56 (11-12)	
LAB SAMPLE ID:							L2553536-01		L2553536-02		L2550303-22		L2550303-23		L2550303-24		L2550303-25		L2553523-02		L2553523-03		L2550665-01		L2550665-02		L2550665-03	
SAMPLE DATE:							8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/11/2025		8/12/2025		8/12/2025		8/12/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PFAS (EPA METHOD 1633)																												
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	763051-92-9	mg/kg	NS	NS	NS	NS	0.797	U	0.799	U	0.798	U	0.799	U	0.795	U	0.799	U	0.795	U	0.798	U	0.804	U	0.797	U	0.797	U
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	mg/kg	NS	NS	NS	NS	0.797	U	0.799	U	0.798	U	0.799	U	0.795	U	0.799	U	0.795	U	0.798	U	0.804	U	0.797	U	0.797	U
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	757124-72-4	mg/kg	NS	NS	NS	NS	0.797	U	0.799	U	0.798	U	0.799	U	0.795	U	0.799	U	0.795	U	0.798	U	0.804	U	0.797	U	0.797	U
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	mg/kg	NS	NS	NS	NS	0.797	U	0.799	U	0.798	U	0.799	U	0.795	U	0.799	U	0.795	U	0.798	U	0.804	U	0.797	U	0.797	U
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	914637-49-3	mg/kg	NS	NS	NS	NS	4.98	U	4.99	U	4.99	U	4.99	U	4.97	U	5	U	4.97	U	4.99	U	5.02	U	4.98	U	4.98	U
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	812-70-4	mg/kg	NS	NS	NS	NS	4.98	U	4.99	U	4.99	U	4.99	U	4.97	U	5	U	4.97	U	4.99	U	5.02	U	4.98	U	4.98	U
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	356-02-5	mg/kg	NS	NS	NS	NS	0.996	U	0.999	U	0.998	U	0.999	U	0.994	U	0.999	U	0.994	U	0.998	U	1	U	0.996	U	0.996	U
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	919005-14-4	mg/kg	NS	NS	NS	NS	0.797	U	0.799	U	0.798	U	0.799	U	0.795	U	0.799	U	0.795	U	0.798	U	0.804	U	0.797	U	0.797	U
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	756426-58-1	mg/kg	NS	NS	NS	NS	0.797	U	0.799	U	0.798	U	0.799	U	0.795	U	0.799	U	0.795	U	0.798	U	0.804	U	0.797	U	0.797	U
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	13252-13-6	mg/kg	NS	NS	NS	NS	0.797	U	0.799	U	0.798	U	0.799	U	0.795	U	0.799	U	0.795	U	0.798	U	0.804	U	0.797	U	0.797	U
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	4151-50-2	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.201	U	0.199	U	0.199	U
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	1691-99-2	mg/kg	NS	NS	NS	NS	1.99	U	2	U	2	U	2	U	1.99	U	2	U	1.99	U	2	U	2.01	U	1.99	U	1.99	U
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.201	U	0.199	U	0.199	U
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	31506-32-8	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.201	U	0.199	U	0.199	U
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	24448-09-7	mg/kg	NS	NS	NS	NS	1.99	U	2	U	2	U	2	U	1.99	U	2	U	1.99	U	2	U	2.01	U	1.99	U	1.99	U
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.201	U	0.199	U	0.199	U
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	151772-58-6	mg/kg	NS	NS	NS	NS	0.398	U	0.4	U	0.399	U	0.4	U	0.398	U	0.4	U	0.398	U	0.399	U	0.402	U	0.398	U	0.398	U
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	113507-82-7	mg/kg	NS	NS	NS	NS	0.398	U	0.4	U	0.399	U	0.4	U	0.398	U	0.4	U	0.398	U	0.399	U	0.402	U	0.398	U	0.398	U
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	377-73-1	mg/kg	NS	NS	NS	NS	0.398	U	0.4	U	0.399	U	0.4	U	0.398	U	0.4	U	0.398	U	0.399	U	0.402	U	0.398	U	0.398	U
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	863090-89-5	mg/kg	NS	NS	NS	NS	0.398	U	0.4	U	0.399	U	0.4	U	0.398	U	0.4	U	0.398	U	0.399	U	0.402	U	0.398	U	0.398	U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.201	U	0.199	U	0.199	U
Perfluorobutanoic Acid (PFBA)	375-22-4	mg/kg	NS	NS	NS	NS	0.797	U	0.799	U	0.798	U	0.799	U	0.795	U	0.799	U	0.795	U	0.798	U	0.804	U	0.797	U	0.797	U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.201	U	0.199	U	0.199	U
Perfluorodecanoic Acid (PFDA)	335-76-2	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.201	U	0.199	U	0.199	U
Perfluorododecanesulfonic Acid (PFDoS)	79780-39-5	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.201	U	0.199	U	0.199	U
Perfluorododecanoic Acid (PFDoA)	307-55-1	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.201	U	0.199	U	0.199	U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.201	U	0.199	U	0.199	U
Perfluoroheptanoic Acid (PFHpA)	375-85-9	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.201	U	0.199	U	0.199	U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.201	U	0.199	U	0.199	U
Perfluorohexanoic Acid (PFHxA)	307-24-4	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.201	U	0.199	U	0.199	U
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.201	U	0.199	U	0.199	U
Perfluorononanoic Acid (PFNA)	375-95-1	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.036	JF	0.2	U	0.201	U	0.199	U	0.199	U
Perfluorooctanesulfonamide (PFOSA)	754-91-6	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.201	U	0.199	U	0.199	U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	mg/kg	0.88	44	440	1.0	0.075	JF	0.032	J	0.034	J	0.2	U	0.057	J	0.064	J	0.095	J	0.2	U	0.039	J	0.046	J	0.033	J
Perfluorooctanoic Acid (PFOA)	335-67-1	mg/kg	0.66	33	500	0.8	0.167	J	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.039	J	0.2	U	0.201	U	0.199	U	0.199	U
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.201	U	0.199	U	0.199	U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	mg/kg	NS	NS	NS	NS	0.398	U	0.4	U	0.399	U	0.4	U	0.398	U	0.4	U	0.398	U	0.399	U	0.402	U	0.398	U	0.398	U
Perfluorotetradecanoic Acid (PFTeDA)	376-06-7	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.201	U	0.199	U	0.199	U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.201	U	0.199	U	0.199	U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	mg/kg	NS	NS	NS	NS	0.199	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.199	U	0.2	U	0.201	U	0.199	U	0.199	U

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs
Concentration Exceeds NYSDEC RRUSCOs
Concentration Exceeds NYSDEC UUSCOs
Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

TABLE 5.6
SUMMARY OF SOIL SAMPLING RESULTS—PFAS

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-57 (1-2)		SB-57 (7.5-8.5)		SB-57 (10-11)		SB-58 (4-5)		SB-58 (7.5-8.5)		SB-59 (1-2)		SB-60 (2-3)		SB-60 (6-7)		SB-61 (1-2)		SB-61 (5-6)		SB-62 (4-5)	
LAB SAMPLE ID:							L2550665-04		L2550665-05		L2550665-06		L2550665-07		L2550665-08		L2550665-09		L2550665-10		L2550665-11		L2550665-12		L2550665-13		L2550665-14	
SAMPLE DATE:							8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PFAS (EPA METHOD 1633)																												
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	763051-92-9	mg/kg	NS	NS	NS	NS	0.8	U	0.8	U	0.802	U	0.799	U	0.801	U	0.798	U	0.8	U	0.796	U	0.802	U	0.8	U	0.802	U
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	mg/kg	NS	NS	NS	NS	0.8	U	0.8	U	0.802	U	0.799	U	0.801	U	0.798	U	0.8	U	0.796	U	0.802	U	0.8	U	0.802	U
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	757124-72-4	mg/kg	NS	NS	NS	NS	0.8	U	0.8	U	0.802	U	0.799	U	0.801	U	0.798	U	0.8	U	0.796	U	0.802	U	0.8	U	0.802	U
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	mg/kg	NS	NS	NS	NS	0.8	U	0.8	U	0.802	U	0.799	U	0.801	U	0.798	U	0.8	U	0.796	U	0.802	U	0.8	U	0.802	U
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	914637-49-3	mg/kg	NS	NS	NS	NS	5	U	5	U	5.02	U	4.99	U	5.01	U	4.99	U	5	U	4.98	U	5.01	U	5	U	5.01	U
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	812-70-4	mg/kg	NS	NS	NS	NS	5	U	5	U	5.02	U	4.99	U	5.01	U	4.99	U	5	U	4.98	U	5.01	U	5	U	5.01	U
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	356-02-5	mg/kg	NS	NS	NS	NS	1	U	1	U	1	U	0.998	U	1	U	0.998	U	1	U	0.995	U	1	U	1	U	1	U
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	919005-14-4	mg/kg	NS	NS	NS	NS	0.8	U	0.8	U	0.802	U	0.799	U	0.801	U	0.798	U	0.8	U	0.796	U	0.802	U	0.8	U	0.802	U
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	756426-58-1	mg/kg	NS	NS	NS	NS	0.8	U	0.8	U	0.802	U	0.799	U	0.801	U	0.798	U	0.8	U	0.796	U	0.802	U	0.8	U	0.802	U
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	13252-13-6	mg/kg	NS	NS	NS	NS	0.8	U	0.8	U	0.802	U	0.799	U	0.801	U	0.798	U	0.8	U	0.796	U	0.802	U	0.8	U	0.802	U
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	4151-50-2	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.201	U	0.2	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.2	U	0.2	U
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	1691-99-2	mg/kg	NS	NS	NS	NS	2	U	2	U	2.01	U	2	U	2	U	2	U	2	U	1.99	U	2	U	2	U	2	U
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.201	U	0.2	U	0.2	U	0.2	U	0.2	U	0.199	U	0.404	0	0.2	U	0.2	U
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	31506-32-8	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.201	U	0.2	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.2	U	0.2	U
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	24448-09-7	mg/kg	NS	NS	NS	NS	2	U	2	U	2.01	U	2	U	2	U	2	U	2	U	1.99	U	2	U	2	U	2	U
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.201	U	0.2	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.2	U	0.2	U
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	151772-58-6	mg/kg	NS	NS	NS	NS	0.4	U	0.4	U	0.401	U	0.399	U	0.4	U	0.399	U	0.4	U	0.398	U	0.401	U	0.4	U	0.401	U
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	113507-82-7	mg/kg	NS	NS	NS	NS	0.4	U	0.4	U	0.401	U	0.399	U	0.4	U	0.399	U	0.4	U	0.398	U	0.401	U	0.4	U	0.401	U
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	377-73-1	mg/kg	NS	NS	NS	NS	0.4	U	0.4	U	0.401	U	0.399	U	0.4	U	0.399	U	0.4	U	0.398	U	0.401	U	0.4	U	0.401	U
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	863090-89-5	mg/kg	NS	NS	NS	NS	0.4	U	0.4	U	0.401	U	0.399	U	0.4	U	0.399	U	0.4	U	0.398	U	0.401	U	0.4	U	0.401	U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.201	U	0.2	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.2	U	0.2	U
Perfluorobutanoic Acid (PFBA)	375-22-4	mg/kg	NS	NS	NS	NS	0.8	U	0.8	U	0.802	U	0.799	U	0.801	U	0.798	U	0.8	U	0.796	U	0.802	U	0.8	U	0.171	J
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.201	U	0.2	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.2	U	0.2	U
Perfluorodecanoic Acid (PFDA)	335-76-2	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.201	U	0.2	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.2	U	0.2	U
Perfluorododecanesulfonic Acid (PFDoS)	79780-39-5	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.201	U	0.2	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.2	U	0.2	U
Perfluorododecanoic Acid (PFDoA)	307-55-1	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.201	U	0.2	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.2	U	0.2	U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.201	U	0.2	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.2	U	0.2	U
Perfluoroheptanoic Acid (PFHpA)	375-85-9	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.201	U	0.2	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.2	U	0.117	J
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.201	U	0.2	U	0.2	U	0.2	U	0.2	U	0.199	U	0.022	J	0.2	U	0.074	J
Perfluorohexanoic Acid (PFHxA)	307-24-4	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.201	U	0.2	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.2	U	0.157	J
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.201	U	0.2	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.2	U	0.2	U
Perfluorononanoic Acid (PFNA)	375-95-1	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.201	U	0.2	U	0.2	U	0.2	U	0.2	U	0.199	U	0.025	JF	0.2	U	0.2	U
Perfluorooctanesulfonamide (PFOSA)	754-91-6	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.201	U	0.2	U	0.2	U	0.2	U	0.2	U	0.199	U	0.029	JF	0.2	U	0.2	U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	mg/kg	0.88	44	440	1.0	0.2	U	0.2	U	0.036	J	0.041	J	0.044	J	0.069	J	0.053	J	0.031	J	0.546		0.07	J	0.104	JF
Perfluorooctanoic Acid (PFOA)	335-67-1	mg/kg	0.66	33	500	0.8	0.2	U	0.2	U	0.201	U	0.047	J	0.036	J	0.2	U	0.048	J	0.199	U	0.031	J	0.064	J	0.474	
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.201	U	0.2	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.2	U	0.2	U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	mg/kg	NS	NS	NS	NS	0.4	U	0.4	U	0.401	U	0.399	U	0.4	U	0.399	U	0.4	U	0.398	U	0.401	U	0.4	U	0.198	J
Perfluorotetradecanoic Acid (PFTeDA)	376-06-7	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.201	U	0.2	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.2	U	0.2	U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.201	U	0.2	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.2	U	0.2	U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.201	U	0.2	U	0.2	U	0.2	U	0.2	U	0.199	U	0.2	U	0.2	U	0.2	U

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs
Concentration Exceeds NYSDEC RRUSCOs
Concentration Exceeds NYSDEC UUSCOs
Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-62 (6-7)		SB-63 (2-3)		SB-63 (7-8)		SB-64 (2-3)		SB-64 (7.5-8.5)		SB-65 (1-2)		SB-65 (6-7)		SB-66 (0.5-1.5)		SB-66 (8.75-9.75)		SB-68 (2.25-3.25)		SB-68 (5-6)	
LAB SAMPLE ID:							L2550665-15		L2553571-01		L2553571-02		L2553571-03		L2553571-04		L2550665-20		L2550665-21		L2553509-01		L2553509-02		L2551038-01		L2551038-02	
SAMPLE DATE:							8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/12/2025		8/13/2025		8/13/2025		8/13/2025		8/13/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PFAS (EPA METHOD 1633)																												
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	763051-92-9	mg/kg	NS	NS	NS	NS	0.8	U	0.802	U	0.804	U	0.8	U	0.799	U	0.8	U	0.797	U	0.795	U	0.797	U	0.796	U	0.797	U
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	mg/kg	NS	NS	NS	NS	0.8	U	0.802	U	0.804	U	0.8	U	0.799	U	0.8	U	0.797	U	0.795	U	0.797	U	0.796	U	0.797	U
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	757124-72-4	mg/kg	NS	NS	NS	NS	0.8	U	0.802	U	0.804	U	0.8	U	0.799	U	0.8	U	0.797	U	0.795	U	0.797	U	0.796	U	0.797	U
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	mg/kg	NS	NS	NS	NS	0.8	U	0.802	U	0.804	U	0.8	U	0.799	U	0.8	U	0.797	U	0.795	U	0.797	U	0.796	U	0.797	U
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	914637-49-3	mg/kg	NS	NS	NS	NS	5	U	5.01	U	5.02	U	5	U	4.99	U	5	U	4.98	U	4.97	U	4.98	U	4.97	U	4.98	U
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	812-70-4	mg/kg	NS	NS	NS	NS	5	U	5.01	U	5.02	U	5	U	4.99	U	5	U	4.98	U	4.97	U	4.98	U	4.97	U	4.98	U
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	356-02-5	mg/kg	NS	NS	NS	NS	1	U	1	U	1	U	0.999	U	0.999	U	1	U	0.996	U	0.993	U	0.996	U	0.995	U	0.996	U
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	919005-14-4	mg/kg	NS	NS	NS	NS	0.8	U	0.802	U	0.804	U	0.8	U	0.799	U	0.8	U	0.797	U	0.795	U	0.797	U	0.796	U	0.797	U
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	756426-58-1	mg/kg	NS	NS	NS	NS	0.8	U	0.802	U	0.804	U	0.8	U	0.799	U	0.8	U	0.797	U	0.795	U	0.797	U	0.796	U	0.797	U
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	13252-13-6	mg/kg	NS	NS	NS	NS	0.8	U	0.802	U	0.804	U	0.8	U	0.799	U	0.8	U	0.797	U	0.795	U	0.797	U	0.796	U	0.797	U
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	4151-50-2	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.201	U	0.2	U	0.2	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	1691-99-2	mg/kg	NS	NS	NS	NS	2	U	2	U	2.01	U	2	U	2	U	2	U	1.99	U	1.99	U	1.99	U	1.99	U	1.99	U
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.201	U	0.2	U	0.2	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	31506-32-8	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.201	U	0.2	U	0.2	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	24448-09-7	mg/kg	NS	NS	NS	NS	2	U	2	U	2.01	U	2	U	2	U	2	U	1.99	U	1.99	U	1.99	U	1.99	U	1.99	U
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.201	U	0.2	U	0.2	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	151772-58-6	mg/kg	NS	NS	NS	NS	0.4	U	0.401	U	0.402	U	0.4	U	0.4	U	0.4	U	0.398	U	0.397	U	0.398	U	0.398	U	0.398	U
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	113507-82-7	mg/kg	NS	NS	NS	NS	0.4	U	0.401	U	0.402	U	0.4	U	0.4	U	0.4	U	0.398	U	0.397	U	0.398	U	0.398	U	0.398	U
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	377-73-1	mg/kg	NS	NS	NS	NS	0.4	U	0.401	U	0.402	U	0.4	U	0.4	U	0.4	U	0.398	U	0.397	U	0.398	U	0.398	U	0.398	U
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	863090-89-5	mg/kg	NS	NS	NS	NS	0.4	U	0.401	U	0.402	U	0.4	U	0.4	U	0.4	U	0.398	U	0.397	U	0.398	U	0.398	U	0.398	U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.201	U	0.2	U	0.2	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U
Perfluorobutanoic Acid (PFBA)	375-22-4	mg/kg	NS	NS	NS	NS	0.8	U	0.802	U	0.804	U	0.038	J	0.799	U	0.8	U	0.797	U	0.795	U	0.797	U	0.796	U	0.797	U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.201	U	0.2	U	0.2	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U
Perfluorodecanoic Acid (PFDA)	335-76-2	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.201	U	0.2	U	0.2	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U
Perfluorododecanesulfonic Acid (PFDoS)	79780-39-5	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.201	U	0.2	U	0.2	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U
Perfluorododecanoic Acid (PFDoA)	307-55-1	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.201	U	0.2	U	0.2	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.201	U	0.2	U	0.2	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U
Perfluoroheptanoic Acid (PFHpA)	375-85-9	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.201	U	0.026	J	0.2	U	0.2	U	0.199	U	0.082	J	0.199	U	0.199	U	0.199	U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.201	U	0.2	U	0.2	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U
Perfluorohexanoic Acid (PFHxA)	307-24-4	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.201	U	0.029	J	0.2	U	0.2	U	0.199	U	0.045	JF	0.199	U	0.199	U	0.199	U
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.201	U	0.2	U	0.2	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U
Perfluorononanoic Acid (PFNA)	375-95-1	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.201	U	0.2	U	0.2	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U
Perfluorooctanesulfonamide (PFOSA)	754-91-6	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.201	U	0.2	U	0.2	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	mg/kg	0.88	44	440	1.0	0.078	J	0.2	U	0.201	U	0.2	U	0.2	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.045	J
Perfluorooctanoic Acid (PFOA)	335-67-1	mg/kg	0.66	33	500	0.8	0.038	JF	0.2	U	0.201	U	0.058	J	0.029	J	0.2	U	0.199	U	0.072	J	0.199	U	0.199	U	0.063	J
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.201	U	0.2	U	0.2	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	mg/kg	NS	NS	NS	NS	0.4	U	0.401	U	0.402	U	0.4	U	0.4	U	0.4	U	0.398	U	0.397	U	0.398	U	0.398	U	0.398	U
Perfluorotetradecanoic Acid (PFTeDA)	376-06-7	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.201	U	0.2	U	0.2	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.201	U	0.2	U	0.2	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	mg/kg	NS	NS	NS	NS	0.2	U	0.2	U	0.201	U	0.2	U	0.2	U	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs
Concentration Exceeds NYSDEC RRUSCOs
Concentration Exceeds NYSDEC UUSCOs
Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

TABLE 5.6
SUMMARY OF SOIL SAMPLING RESULTS—PFAS

SAMPLE ID:	CAS	UNITS	NYSDEC UUSCOs	NYSDEC RRUSCOs	NYSDEC CUSCOs	NYSDEC PGWSCOs	SB-69 (1-2)		SB-69 (8.75-9.75)		SB-70 (3.5-4.5)		SB-70 (9-10)		SB-71 (1-2)		SB-71 (8-9)	
LAB SAMPLE ID:							L2551038-03		L2551038-04		L2551038-05		L2551038-06		L2551039-04		L2551039-05	
SAMPLE DATE:							8/13/2025		8/13/2025		8/13/2025		8/13/2025		8/13/2025		8/13/2025	
MATRIX:							SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
							Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
PFAS (EPA METHOD 1633)																		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	763051-92-9	mg/kg	NS	NS	NS	NS	0.8	U	0.795	U	0.795	U	0.798	U	0.795	U	0.796	U
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	mg/kg	NS	NS	NS	NS	0.8	U	0.795	U	0.795	U	0.798	U	0.795	U	0.796	U
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	757124-72-4	mg/kg	NS	NS	NS	NS	0.8	U	0.795	U	0.795	U	0.798	U	0.795	U	0.796	U
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	mg/kg	NS	NS	NS	NS	0.8	U	0.795	U	0.795	U	0.798	U	0.795	U	0.796	U
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	914637-49-3	mg/kg	NS	NS	NS	NS	5	U	4.97	U	4.97	U	4.99	U	4.97	U	4.98	U
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	812-70-4	mg/kg	NS	NS	NS	NS	5	U	4.97	U	4.97	U	4.99	U	4.97	U	4.98	U
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	356-02-5	mg/kg	NS	NS	NS	NS	1	U	0.994	U	0.993	U	0.997	U	0.993	U	0.996	U
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	919005-14-4	mg/kg	NS	NS	NS	NS	0.8	U	0.795	U	0.795	U	0.798	U	0.795	U	0.796	U
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	756426-58-1	mg/kg	NS	NS	NS	NS	0.8	U	0.795	U	0.795	U	0.798	U	0.795	U	0.796	U
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	13252-13-6	mg/kg	NS	NS	NS	NS	0.8	U	0.795	U	0.795	U	0.798	U	0.795	U	0.796	U
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	4151-50-2	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	1691-99-2	mg/kg	NS	NS	NS	NS	2	U	1.99	U	1.99	U	1.99	U	1.99	U	1.99	U
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	1.06	U	0.199	U	0.199	U	0.199	U
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	31506-32-8	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	24448-09-7	mg/kg	NS	NS	NS	NS	2	U	1.99	U	1.99	U	1.99	U	1.99	U	1.99	U
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	151772-58-6	mg/kg	NS	NS	NS	NS	0.4	U	0.398	U	0.397	U	0.399	U	0.397	U	0.398	U
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	113507-82-7	mg/kg	NS	NS	NS	NS	0.4	U	0.398	U	0.397	U	0.399	U	0.397	U	0.398	U
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	377-73-1	mg/kg	NS	NS	NS	NS	0.4	U	0.398	U	0.397	U	0.399	U	0.397	U	0.398	U
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	863090-89-5	mg/kg	NS	NS	NS	NS	0.4	U	0.398	U	0.397	U	0.399	U	0.397	U	0.398	U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U
Perfluorobutanoic Acid (PFBA)	375-22-4	mg/kg	NS	NS	NS	NS	0.8	U	0.795	U	0.795	U	0.798	U	0.795	U	0.796	U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U
Perfluorodecanoic Acid (PFDA)	335-76-2	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U
Perfluorododecanesulfonic Acid (PFDoS)	79780-39-5	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U
Perfluorododecanoic Acid (PFDoA)	307-55-1	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U
Perfluoroheptanoic Acid (PFHpA)	375-85-9	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.199	U	0.199	U	0.022	JF	0.199	U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U
Perfluorohexanoic Acid (PFHxA)	307-24-4	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U
Perfluorononanoic Acid (PFNA)	375-95-1	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U
Perfluorooctanesulfonamide (PFOSA)	754-91-6	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	mg/kg	0.88	44	440	1.0	0.143	J	0.199	U	0.362		0.199	U	0.199	U	0.199	U
Perfluorooctanoic Acid (PFOA)	335-67-1	mg/kg	0.66	33	500	0.8	0.038	J	0.199	U	0.071	J	0.199	U	0.066	J	0.199	U
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	mg/kg	NS	NS	NS	NS	0.4	U	0.398	U	0.397	U	0.399	U	0.397	U	0.398	U
Perfluorotetradecanoic Acid (PFTeDA)	376-06-7	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	mg/kg	NS	NS	NS	NS	0.2	U	0.199	U	0.199	U	0.199	U	0.199	U	0.199	U

Notes

1. All results measured in mg/Kg.

Concentration Exceeds NYSDEC CUSCOs
Concentration Exceeds NYSDEC RRUSCOs
Concentration Exceeds NYSDEC UUSCOs
Concentration Exceeds NYSDEC PGWSCOs

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
"E" = Concentration exceeds instrument range

SESI
CONSULTING ENGINEERS

REMEDIAL INVESTIGATION REPORT

TABLE 5.13
SUMMARY OF GROUNDWATER SAMPLING RESULTS—VOCs

26-28, 40, 60 East Post Road
223-225 Dr. MLK Jr. Blvd.
and Brookfield Street
White Plains, NY

Sample ID:	CAS	NY-AWQS	Units	TW-1		TW-2		TW-3		TRIP BLANK		TW-5		TW-4		TW-6		TRIP BLANK		TW-4	
Sample Date:				7/10/2025		7/10/2025		7/29/2025		7/31/2025		7/31/2025		7/31/2025		8/1/2025		8/1/2025		8/1/2025	
Lab ID:				L2543250-05		L2543250-06		L2547611-02		L2548309-08		L2548309-10		L2548309-11		L2548397-03		L2548397-04		L2548398-01	
				Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Volatile Organics by GC/MS																					
1,1,1,2-Tetrachloroethane	630-20-6	5	ug/L	2.5	U	2.5	U	5	U	2.5	U	2.5	U	-	-	2.5	U	2.5	U	2.5	U
1,1,1-Trichloroethane	71-55-6	5	ug/L	2.5	U	2.5	U	5	U	2.5	U	2.5	U	-	-	2.5	U	2.5	U	2.5	U
1,1,2,2-Tetrachloroethane	79-34-5	5	ug/L	0.5	U	0.5	U	1	U	0.5	U	0.5	U	-	-	0.5	U	0.5	U	0.5	U
1,1,2-Trichloroethane	79-00-5	1	ug/L	1.5	U	1.5	U	3	U	1.5	U	1.5	U	-	-	1.5	U	1.5	U	1.5	U
1,1-Dichloroethane	75-34-3	5	ug/L	2.5	U	2.5	U	5	U	2.5	U	2.5	U	-	-	2.5	U	2.5	U	2.5	U
1,1-Dichloroethene	75-35-4	5	ug/L	0.5	U	0.5	U	1	U	0.5	U	0.5	U	-	-	0.5	U	0.5	U	0.5	U
1,1-Dichloropropene	563-58-6	5	ug/L	2.5	U	2.5	U	5	U	2.5	U	2.5	U	-	-	2.5	U	2.5	U	2.5	U
1,2,3-Trichlorobenzene	87-61-6	5	ug/L	2.5	U	2.5	U	5	U	2.5	U	2.5	U	-	-	2.5	U	2.5	U	2.5	U
1,2,3-Trichloropropane	96-18-4	0.04	ug/L	2.5	U	2.5	U	5	U	2.5	U	2.5	U	-	-	2.5	U	2.5	U	2.5	U
1,2,4,5-Tetramethylbenzene	95-93-2	5	ug/L	110		33		4	U	2	U	2	U	-	-	7.5		2	U	1	J
1,2,4-Trichlorobenzene	120-82-1	5	ug/L	2.5	U	2.5	U	5	U	2.5	U	2.5	U	-	-	2.5	U	2.5	U	2.5	U
1,2,4-Trimethylbenzene	95-63-6	5	ug/L	2.5	U	140		5	U	2.5	U	2.5	U	-	-	13		2.5	U	1.8	J
1,2-Dibromo-3-chloropropane	96-12-8	0.04	ug/L	2.5	U	2.5	U	5	U	2.5	U	2.5	U	-	-	2.5	U	2.5	U	2.5	U
1,2-Dibromoethane	106-93-4	0.0006	ug/L	2	U	2	U	4	U	2	U	2	U	-	-	2	U	2	U	2	U
1,2-Dichlorobenzene	95-50-1	3	ug/L	2.5	U	2.5	U	5	U	2.5	U	2.5	U	-	-	2.5	U	2.5	U	2.5	U
1,2-Dichloroethane	107-06-2	0.6	ug/L	0.5	U	0.5	U	1	U	0.5	U	0.5	U	-	-	0.5	U	0.5	U	0.5	U
1,2-Dichloroethene, Total	540-59-0	NS	ug/L	-	-	-	-	5	U	2.5	U	2.5	U	-	-	2.5	U	2.5	U	2.5	U
1,2-Dichloropropane	78-87-5	1	ug/L	1	U	1	U	2	U	1	U	1	U	-	-	1	U	1	U	1	U
1,3,5-Trimethylbenzene	108-67-8	5	ug/L	2.5	U	5.8		5	U	2.5	U	2.5	U	-	-	3.6		2.5	U	2.5	U
1,3-Dichlorobenzene	541-73-1	3	ug/L	2.5	U	2.5	U	5	U	2.5	U	2.5	U	-	-	2.5	U	2.5	U	2.5	U
1,3-Dichloropropane	142-28-9	5	ug/L	2.5	U	2.5	U	5	U	2.5	U	2.5	U	-	-	2.5	U	2.5	U	2.5	U
1,3-Dichloropropene, Total	542-75-6	NS	ug/L	-	-	-	-	1	U	0.5	U	0.5	U	-	-	0.5	U	0.5	U	0.5	U
1,4-Dichlorobenzene	106-46-7	3	ug/L	2.5	U	2.5	U	5	U	2.5	U	2.5	U	-	-	2.5	U	2.5	U	2.5	U
1,4-Dioxane	123-91-1	0.35	ug/L	250	U	250	U	500	U	250	U	250	U	-	-	250	U	250	U	250	U
2,2-Dichloropropane	594-20-7	5	ug/L	2.5	U	2.5	U	5	U	2.5	U	2.5	U	-	-	2.5	U	2.5	U	2.5	U
2-Butanone	78-93-3	50	ug/L	5	U	5	U	10	U	5	U	5	U	-	-	5	U	5	U	5	U
2-Hexanone	591-78-6	50	ug/L	5	U	5	U	10	U	5	U	5	U	-	-	5	U	5	U	5	U
4-Methyl-2-pentanone	108-10-1	NS	ug/L	5	U	5	U	10	U	5	U	5	U	-	-	5	U	5	U	5	U
Acetone	67-64-1	50	ug/L	16		5	U	9.2	J	5	U	6.5		-	-	12		5	U	12	
Acrylonitrile	107-13-1	5	ug/L	5	U	5	U	10	U	5	U	5	U	-	-	5	U	5	U	5	U
Benzene	71-43-2	1	ug/L	0.42	J	0.36	J	1.3		0.5	U	0.3	J	-	-	0.54		0.5	U	0.43	J
Bromobenzene	108-86-1	5	ug/L	2.5	U	2.5	U	5	U	2.5	U	2.5	U	-	-	2.5	U	2.5	U	2.5	U
Bromochloromethane	74-97-5	5	ug/L	2.5	U	2.5	U	5	U	2.5	U	2.5	U	-	-	2.5	U	2.5	U	2.5	U
Bromodichloromethane	75-27-4	50	ug/L	0.5	U	0.5	U	1	U	0.5	U	0.5	U	-	-	0.5	U	0.5	U	0.5	U
Bromoform	75-25-2	50	ug/L	2	U	2	U	4	U	2	U	2	U	-	-	2	U	2	U	2	U
Bromomethane	74-83-9	5	ug/L	2.5	U	2.5	U	5	U	2.5	U	2.5	U	-	-	2.5	U	2.5	U	2.5	U
Carbon disulfide	75-15-0	60	ug/L	5	U	5	U	10	U	5	U	5	U	-	-	5	U	5	U	5	U
Carbon tetrachloride	56-23-5	5	ug/L	0.5	U	0.5	U	1	U	0.5	U	0.5	U	-	-	0.5	U	0.5	U	0.5	U
Chlorobenzene	108-90-7	5	ug/L	2.5	U	2.5	U	5	U	2.5	U	2.5	U	-	-	2.5	U	2.5	U	2.5	U
Chloroethane	75-00-3	5	ug/L	2.5	U	2.5	U	5	U	2.5	U	2.5	U	-	-	2.5	U	2.5	U	2.5	U
Chloroform	67-66-3	7	ug/L	2.5	U	2.5	U	5	U	2.5	U	1.1	J	-	-	2.5	U	2.5	U	2.5	U
Chloromethane	74-87-3	NS	ug/L	2.5	U	2.5	U	5	U	2.5	U	2.5	U	-	-	2.5	U	2.5	U	2.5	U
cis-1,2-Dichloroethene	156-59-2	5	ug/L	2.5	U	2.5	U	5	U	2.5	U	2.5	U	-	-	2.5	U	2.5	U	2.5	U
cis-1,3-Dichloropropene	10061-01-5	0.4	ug/L	0.5	U	0.5	U	1	U	0.5	U	0.5	U	-	-	0.5	U	0.5	U	0.5	U
Dibromochloromethane	124-48-1	50	ug/L	0.5	U	0.5	U	1	U	0.5	U	0.5	U	-	-	0.5	U	0.5	U	0.5	U
Dibromomethane	74-95-3	5	ug/L	5	U	5	U	10	U	5	U	5	U	-	-	5	U	5	U	5	U
Dichlorodifluoromethane	75-71-8	5	ug/L	5	U	5	U	10	U	5	U	5	U	-	-	5	U	5	U	5	U
Ethyl ether	60-29-7	NS	ug/L	2.5	U	2.5	U	5	U	2.5	U	2.5	U	-	-	2.5	U	2.5	U	2.5	U
Ethylbenzene	100-41-4	5	ug/L	0.85	J	71		5	U	2.5	U	2.5	U	-	-	2.6		2.5	U	2.5	
Hexachlorobutadiene	87-68-3	0.5	ug/L	2.5	U	2.5	U	5	U	2.5	U	2.5	U	-	-	2.5	U	2.5	U	2.5	U
Isopropylbenzene	98-82-8	5	ug/L	45		18		5	U	2.5	U	2.5	U	-	-	3.3		2.5	U	1.1	J
Methyl tert butyl ether	1634-04-4	10	ug/L	2.5	U	2.5	U	5	U	2.5	U	2.5	U	-	-	2.5	U	2.5	U	2.5	U
Methylene chloride	75-09-2	5	ug/L	2.5	U	2.5	U	5	U	2.5	U	2.5	U	-	-	2.5	U	2.5	U	2.5	U
n-Butylbenzene	104-51-8	5	ug/L	22		7.9		5	U	2.5	U	2.5	U	-	-	3.2		2.5	U	2.5	U
n-Propylbenzene	103-65-1	5	ug/L	170		44		5	U	2.5	U	2.5	U	-	-	3.9		2.5	U	2.3	J
Naphthalene	91-20-3	10	ug/L	2.2	J	19		5	U	2.5	U	2.5	U	-	-	12		2.5	U	2.5	U
o-Chlorotoluene	95-49-8	5	ug/L	2.5	U	2.5	U	5	U	2.5	U	2.5	U	-	-	2.5	U	2.5	U	2.5	U
o-Xylene	95-47-6	5	ug/L	2.5	U	16		5	U	2.5	U	2.5	U	-	-	0.81	J	2.5	U	2.5	U
p-Chlorotoluene	106-43-4	5	ug/L	2.5	U	2.5	U	5	U	2.5	U	2.5	U	-	-	2.5	U	2.5	U	2.5	U
p-Diethylbenzene	105-05-5	NS	ug/L	34		11		4	U	2	U	2	U	-	-	4.6		2	U	0.94	J
p-Ethyltoluene	622-96-8	NS	ug/L	2	U	34		4	U	2	U	2	U	-	-	5.2		2	U	2	U
p-Isopropyltoluene	99-87-6	5	ug/L	3		2.8		5	U	2.5	U	2.5	U	-	-	1.1	J	2.5	U	2.5	U
p/m-Xylene	179601-23-1	5	ug/L	0.77	J	73		5	U	2.5	U	2.5	U	-	-	2	J	2.5	U	2.5	U
sec-Butylbenzene	135-98-8	5	ug/L	23		5.3		5	U	2.5	U	2.5	U	-	-	5.8		2.5	U	2.5	U
Styrene	100-42-5	5	ug/L	2.5	U	2.5	U	5	U	2.5	U	2.5	U	-	-	2.5	U	2.5	U	2.5	U
tert-Butylbenzene	98-06-6	5	ug/L	1.2	J	2.5	U	5	U	2.5	U	2.5	U	-	-	2.5	U	2.5	U	2.5	U
Tetrachloroethene	127-18-4	5	ug/L	0.2	J	0.5	U	1	U	0.5	U	0.5	U	-	-	0.5	U	0.5	U	0.5	U
Toluene	108-88-3	5	ug/L	0.77	J	2.5	U	5	U	2.5	U	0.74	J	-	-	2.5	U	2.5	U	2.5	U
trans-1,2-Dichloroethene	156-60-5	5	ug/L	2.5	U	2.5	U	5	U	2.5	U	2.5	U	-	-	2.5	U	2.5	U	2.5	U
trans-1,3-Dichloropropene	10061-02-6	0.4	ug/L	0.5	U	0.5	U	1	U	0.5	U	0.5	U	-	-	0.5	U	0.5	U	0.5	U
trans-1,4-Dichloro-2-butene	110-57-6	5	ug/L	2.5	U	2.5	U	5	U	2.5	U	2.5	U	-	-	2.5	U	2.5	U	2.5	U
Trichloroethene	79-01-6	5	ug/L	0.5	U	0.5	U	1	U	0.5	U	0.5	U	-	-	0.5	U	0.5	U	0.5	U
Trichlorofluoromethane	75-69-4	5	ug/L	2.5	U	2.5	U	5	U	2.5	U	2.5	U	-	-	2.5	U	2.5	U	2.5	U
Vinyl acetate	108-05-4	NS	ug/L	5	U	5	U	10	U	5	U	5	U	-	-	5	U	5	U	5	U
Vinyl chloride	75-01-4	2	ug/L	1	U	1	U	2	U	1	U	1	U	-	-	1	U	1	U	1	U
Xylenes, Total	1330-20-7	NS	ug/L	-	-	-	-	5	U	2.5	U	2.5	U	-	-	2.8	J	2.5	U	2.5	U

NOTES:

1. All results measured in ug/L

Concentration Exceeds NY AWQS

"-" = Not Analyzed

"NS" = No Applicable Standard

"U" = Not Detected

"J" = Estimated Concentration

NY-AWQS: New York TOGS 111 Ambient Water Quality Standards & Guidance Values Criteria per Standards & Guidance Values including all addenda through February 2023.

TABLE 5.13
SUMMARY OF GROUNDWATER SAMPLING RESULTS—VOCs

Sample ID:	CAS	NY-AWQS	Units	FIELD BLANK		FIELD BLANK		FIELD BLANK		TW-7		TW-8		FIELD BLANK		TW-9		TW-10		TW-11	
Sample Date:				8/11/2025		8/12/2025		8/13/2025		8/14/2025		8/14/2025		8/14/2025		9/5/2025		9/5/2025		9/5/2025	
Lab ID:				L2550303-30		L2550665-22		L2551039-01		L2551402-01		L2551402-02		L2551402-03		JE18488-13		JE18488-14		JE18488-15	
				Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Volatile Organics by GC/MS																					
1,1,1,2-Tetrachloroethane	630-20-6	5	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	-		-		-	
1,1,1-Trichloroethane	71-55-6	5	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	1.0	U	1.0	U	1.0	U
1,1,2,2-Tetrachloroethane	79-34-5	5	ug/L	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	1.0	U	1.0	U	1.0	U
1,1,2-Trichloroethane	79-00-5	1	ug/L	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	75-34-3	5	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethene	75-35-4	5	ug/L	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	1.0	U	1.0	U	1.0	U
1,1-Dichloropropene	563-58-6	5	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	-		-		-	
1,2,3-Trichlorobenzene	87-61-6	5	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	1.0	U	1.0	U	1.0	U
1,2,3-Trichloropropane	96-18-4	0.04	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	-		-		-	
1,2,4,5-Tetramethylbenzene	95-93-2	5	ug/L	2	U	2	U	2	U	2	U	2	U	2	U	-		-		-	
1,2,4-Trichlorobenzene	120-82-1	5	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	1.0	U	1.0	U	1.0	U
1,2,4-Trimethylbenzene	95-63-6	5	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	-		-		-	
1,2-Dibromo-3-chloropropane	96-12-8	0.04	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.0	U	2.0	U	2.0	U
1,2-Dibromoethane	106-93-4	0.0006	ug/L	2	U	2	U	2	U	2	U	2	U	2	U	1.0	U	1.0	U	1.0	U
1,2-Dichlorobenzene	95-50-1	3	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethane	107-06-2	0.6	ug/L	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethene, Total	540-59-0	NS	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	-		-		-	
1,2-Dichloropropane	78-87-5	1	ug/L	1	U	1	U	1	U	1	U	1	U	1	U	1.0	U	1.0 U		1.0 U	
1,3,5-Trimethylbenzene	108-67-8	5	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	-		-		-	
1,3-Dichlorobenzene	541-73-1	3	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	1.0	U	1.0 U		1.0 U	
1,3-Dichloropropane	142-28-9	5	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	-		-		-	
1,3-Dichloropropene, Total	542-75-6	NS	ug/L	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	-		-		-	
1,4-Dichlorobenzene	106-46-7	3	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	1.0	U	1.0 U		1.0 U	
1,4-Dioxane	123-91-1	0.35	ug/L	250	U	250	U	250	U	250	U	250	U	250	U	-		-		-	
2,2-Dichloropropane	594-20-7	5	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	-		-		-	
2-Butanone	78-93-3	50	ug/L	5	U	5	U	5	U	5	U	5	U	5	U	10	U	4.2 J		10	U
2-Hexanone	591-78-6	50	ug/L	5	U	5	U	5	U	5	U	5	U	5	U	5.0	U	5.0	U	5.0	U
4-Methyl-2-pentanone	108-10-1	NS	ug/L	5	U	5	U	5	U	5	U	5	U	5	U	5.0	U	5.0	U	5.0	U
Acetone	67-64-1	50	ug/L	5	U	5	U	5	U	4.9	J	6.2		5	U	10 U		52.4		4.4	J
Acrylonitrile	107-13-1	5	ug/L	5	U	5	U	5	U	5	U	5	U	5	U	-		-		-	
Benzene	71-43-2	1	ug/L	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.50	U	0.50	U	0.50	U
Bromobenzene	108-86-1	5	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	-		-		-	
Bromochloromethane	74-97-5	5	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	1.0	U	1.0	U	1.0	U
Bromodichloromethane	75-27-4	50	ug/L	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	1.0	U	1.0	U	1.0	U
Bromoform	75-25-2	50	ug/L	2	U	2	U	2	U	2	U	2	U	2	U	1.0	U	1.0	U	1.0	U
Bromomethane	74-83-9	5	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.0	U	2.0	U	2.0	U
Carbon disulfide	75-15-0	60	ug/L	5	U	5	U	5	U	5	U	5	U	5	U	2.0	U	2.0	U	2.0	U
Carbon tetrachloride	56-23-5	5	ug/L	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	1.0	U	1.0	U	1.0	U
Chlorobenzene	108-90-7	5	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	1.0	U	1.0	U	1.0	U
Chloroethane	75-00-3	5	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	1.0	U	1.0	U	1.0	U
Chloroform	67-66-3	7	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	1.0	U	1.0	U	1.0	U
Chloromethane	74-87-3	NS	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	156-59-2	5	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	1.0	U	1.0	U	1.0	U
cis-1,3-Dichloropropene	10061-01-5	0.4	ug/L	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	1.0	U	1.0	U	1.0	U
Dibromochloromethane	124-48-1	50	ug/L	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	1.0	U	1.0	U	1.0	U
Dibromomethane	74-95-3	5	ug/L	5	U	5	U	5	U	5	U	5	U	5	U	-		-		-	
Dichlorodifluoromethane	75-71-8	5	ug/L	5	U	5	U	5	U	5	U	5	U	5	U	2.0	U	2.0	U	2.0	U
Ethyl ether	60-29-7	NS	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	-		-		-	
Ethylbenzene	100-41-4	5	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	1.0	U	15.1		1.0	U
Hexachlorobutadiene	87-68-3	0.5	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	1.0	U	-		1.0	U
Isopropylbenzene	98-82-8	5	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	1.0	U	8.8		1.0	U
Methyl tert butyl ether	1634-04-4	10	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	1.0	U	1.0	U	1.0	U
Methylene chloride	75-09-2	5	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.0	U	2.0	U	2.0	U
n-Butylbenzene	104-51-8	5	ug/L	2.5	U	2.5	U	2.5	U	0.92	J	2.5	U	2.5	U	-		-		-	
n-Propylbenzene	103-65-1	5	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	-		-		-	
Naphthalene	91-20-3	10	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	-		-		-	
o-Chlorotoluene	95-49-8	5	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	-		-		-	
o-Xylene	95-47-6	5	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	1.0	U	2.6		1.0	U
p-Chlorotoluene	106-43-4	5	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	-		-		-	
p-Diethylbenzene	105-05-5	NS	ug/L	2	U	2	U	2	U	2	U	2	U	2	U	-		-		-	
p-Ethyltoluene	622-96-8	NS	ug/L	2	U	2	U	2	U	2	U	2	U	2	U	-		-		-	
p-Isopropyltoluene	99-87-6	5	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	-		-		-	
p/m-Xylene	179601-23-1	5	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	1.0	U	7.2		1.0	U
sec-Butylbenzene	135-98-8	5	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	-		-		-	
Styrene	100-42-5	5	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	1.0	U	1.0	U	1.0	U
tert-Butylbenzene	98-06-6	5	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	-		-		-	
Tetrachloroethene	127-18-4	5	ug/L	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	1.0	U	1.0	U	1.0	U
Toluene	108-88-3	5	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	156-60-5	5	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	1.0	U	1.0	U	1.0	U
trans-1,3-Dichloropropene	10061-02-6	0.4	ug/L	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	1.0	U	1.0	U	1.0	U
trans-1,4-Dichloro-2-butene	110-57-6	5	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	-		-		-	
Trichloroethene	79-01-6	5	ug/L	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	1.0	U	1.0	U	1.0	U
Trichlorofluoromethane	75-69-4	5	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.0	U	2.0	U	2.0	U
Vinyl acetate	108-05-4	NS	ug/L	5	U	5	U	5	U	5	U	5	U	5	U	-		-		-	
Vinyl chloride	75-01-4	2	ug/L	1	U	1	U	1	U	1	U	1	U	1	U	1.0	U	1.0	U	1.0	U
Xylenes, Total	1330-20-7	NS	ug/L	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	1.0	U	9.8		1.0	U

NOTES:

1. All results measured in ug/L

Concentration Exceeds NY AWQS

"-" = Not Analyzed

"NS" = No Applicable Standard

"U" = Not Detected

"J" = Estimated Concentration

NY-AWQS: New York TOGS 111 Ambient Water Quality Standards & Guidance Values Criteria per Standards & Guidance Value

SESI
CONSULTING ENGINEERS

REMEDIAL INVESTIGATION REPORT

TABLE 5.13
SUMMARY OF GROUNDWATER SAMPLING RESULTS—VOCs

26-28, 40, 60 East Post Road
223-225 Dr. MLK Jr. Blvd.
and Brookfield Street
White Plains, NY

Sample ID:	CAS	NY-AWQS	Units	TW-12		TW-13		TW-14		TW-15		TW-16		TW-17		TW-18	
Sample Date:				9/8/2025		9/8/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/10/2025	
Lab ID:				JE18629-10		JE18629-11		JE18698-20		JE18698-21		JE18698-22		JE18698-23		JE18798-1	
				Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Volatile Organics by GC/MS																	
1,1,1,2-Tetrachloroethane	630-20-6	5	ug/L	-		-		-		-		-		-		-	
1,1,1-Trichloroethane	71-55-6	5	ug/L	1.0	U	4.0	U	1.0	U	10	U	1.0	U	1.0	U	1.0	U
1,1,2,2-Tetrachloroethane	79-34-5	5	ug/L	1.0	U	4.0	U	1.0	U	10	U	1.0	U	1.0	U	1.0	U
1,1,2-Trichloroethane	79-00-5	1	ug/L	1.0	U	4.0	U	1.0	U	10	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	75-34-3	5	ug/L	1.0	U	4.0	U	1.0	U	10	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethene	75-35-4	5	ug/L	1.0	U	4.0	U	1.0	U	10	U	1.0	U	1.0	U	1.0	U
1,1-Dichloropropene	563-58-6	5	ug/L	-		-		-		-		-		-		-	
1,2,3-Trichlorobenzene	87-61-6	5	ug/L	1.0	U	4.0	U	1.0	U	10	U	1.0	U	1.0	U	1.0	U
1,2,3-Trichloropropane	96-18-4	0.04	ug/L	-		-		-		-		-		-		-	
1,2,4,5-Tetramethylbenzene	95-93-2	5	ug/L	-		-		-		-		-		-		-	
1,2,4-Trichlorobenzene	120-82-1	5	ug/L	1.0	U	4.0	U	1.0	U	10	U	1.0	U	1.0	U	1.0	U
1,2,4-Trimethylbenzene	95-63-6	5	ug/L	-		-		-		-		-		-		-	
1,2-Dibromo-3-chloropropane	96-12-8	0.04	ug/L	2.0	U	8.0	U	2.0	U	20	U	2.0	U	2.0	U	2.0	U
1,2-Dibromoethane	106-93-4	0.0006	ug/L	1.0	U	4.0	U	1.0	U	10	U	1.0	U	1.0	U	1.0	U
1,2-Dichlorobenzene	95-50-1	3	ug/L	1.0	U	4.0	U	1.0	U	10	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethane	107-06-2	0.6	ug/L	1.0	U	4.0	U	1.0	U	10	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethene, Total	540-59-0	NS	ug/L	-		-		-		-		-		-		-	
1,2-Dichloropropane	78-87-5	1	ug/L	1.0 U		4.0	U	1.0	U	10	U	1.0	U	1.0	U	1.0	U
1,3,5-Trimethylbenzene	108-67-8	5	ug/L	-		-		-		-		-		-		-	
1,3-Dichlorobenzene	541-73-1	3	ug/L	1.0 U		4.0	U	1.0	U	10	U	1.0	U	1.0	U	1.0	U
1,3-Dichloropropane	142-28-9	5	ug/L	-		-		-		-		-		-		-	
1,3-Dichloropropene, Total	542-75-6	NS	ug/L	-		-		-		-		-		-		-	
1,4-Dichlorobenzene	106-46-7	3	ug/L	1.0 U		4.0	U	1.0	U	10	U	1.0	U	1.0	U	1.0	U
1,4-Dioxane	123-91-1	0.35	ug/L	-		-		-		-		-		-		-	
2,2-Dichloropropane	594-20-7	5	ug/L	-		-		-		-		-		-		-	
2-Butanone	78-93-3	50	ug/L	10	U	60.7		10	U	100	U	10	U	10	U	10	U
2-Hexanone	591-78-6	50	ug/L	5.0	U	20	U	5.0	U	50	U	5.0	U	5.0	U	5.0	U
4-Methyl-2-pentanone	108-10-1	NS	ug/L	5.0	U	20	U	5.0	U	50	U	5.0	U	5.0	U	5.0	U
Acetone	67-64-1	50	ug/L	8.4	J	116		7.1	J	128		10	U	10	U	10	U
Acrylonitrile	107-13-1	5	ug/L	-		-		-		-		-		-		-	
Benzene	71-43-2	1	ug/L	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromobenzene	108-86-1	5	ug/L	-		-		-		-		-		-		-	
Bromochloromethane	74-97-5	5	ug/L	1.0	U	4.0	U	1.0	U	10	U	1.0	U	1.0	U	1.0	U
Bromodichloromethane	75-27-4	50	ug/L	1.0	U	4.0	U	1.0	U	10	U	1.0	U	1.0	U	1.0	U
Bromoform	75-25-2	50	ug/L	1.0	U	4.0	U	1.0	U	10	U	1.0	U	1.0	U	1.0	U
Bromomethane	74-83-9	5	ug/L	2.0	U	8.0	U	2.0	U	20	U	2.0	U	2.0	U	2.0	U
Carbon disulfide	75-15-0	60	ug/L	2.0	U	2.0	U	2.0	U	20	U	2.0	U	2.0	U	2.0	U
Carbon tetrachloride	56-23-5	5	ug/L	1.0	U	4.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chlorobenzene	108-90-7	5	ug/L	1.0	U	4.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chloroethane	75-00-3	5	ug/L	1.0	U	4.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chloroform	67-66-3	7	ug/L	1.0	U	4.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chloromethane	74-87-3	NS	ug/L	1.0	U	4.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	156-59-2	5	ug/L	1.0	U	4.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,3-Dichloropropene	10061-01-5	0.4	ug/L	1.0	U	4.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Dibromochloromethane	124-48-1	50	ug/L	1.0	U	4.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Dibromomethane	74-95-3	5	ug/L	-		-		-		-		-		-		-	
Dichlorodifluoromethane	75-71-8	5	ug/L	2.0	U	8.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Ethyl ether	60-29-7	NS	ug/L	-		-		-		-		-		-		-	
Ethylbenzene	100-41-4	5	ug/L	1.0	U	354		2.2		1950		4.6		1.0	U	1.0	U
Hexachlorobutadiene	87-68-3	0.5	ug/L	1.0	U	1.0 U		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Isopropylbenzene	98-82-8	5	ug/L	1.0	U	58.3		2.7		375		5.8		1.0	U	1.0	U
Methyl tert butyl ether	1634-04-4	10	ug/L	1.0	U	4.0 U		1.0	U	10	U	1.0	U	1.0	U	1.0	U
Methylene chloride	75-09-2	5	ug/L	2.0	U	8.0 U		2.0	U	20	U	2.0	U	2.0	U	2.0	U
n-Butylbenzene	104-51-8	5	ug/L	-		-		-		-		-		-		-	
n-Propylbenzene	103-65-1	5	ug/L	-		-		-		-		-		-		-	
Naphthalene	91-20-3	10	ug/L	-		-		-		-		-		-		-	
o-Chlorotoluene	95-49-8	5	ug/L	-		-		-		-		-		-		-	
o-Xylene	95-47-6	5	ug/L	1.0	U	192		1.0	U	395		1.0	U	1.0	U	1.0	U
p-Chlorotoluene	106-43-4	5	ug/L	-		-		-		-		-		-		-	
p-Diethylbenzene	105-05-5	NS	ug/L	-		-		-		-		-		-		-	
p-Ethyltoluene	622-96-8	NS	ug/L	-		-		-		-		-		-		-	
p-Isopropyltoluene	99-87-6	5	ug/L	-		-		-		-		-		-		-	
p/m-Xylene	179601-23-1	5	ug/L	1.0	U	1240		3.5		3610		5.5		1.7		1.0	U
sec-Butylbenzene	135-98-8	5	ug/L	-		-		-		-		-		-		-	
Styrene	100-42-5	5	ug/L	1.0	U	4.0	U	1.0	U	10	U	1.0	U	1.0	U	1.0	U
tert-Butylbenzene	98-06-6	5	ug/L	-		-		-		-		-		-		-	
Tetrachloroethene	127-18-4	5	ug/L	1.0	U	4.0	U	1.0	U	10	U	1.0	U	1.0	U	1.0	U
Toluene	108-88-3	5	ug/L	1.0	U	4.0	U	1.0	U	6.4 J		1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	156-60-5	5	ug/L	1.0	U	4.0	U	1.0	U	10	U	1.0	U	1.0	U	1.0	U
trans-1,3-Dichloropropene	10061-02-6	0.4	ug/L	1.0	U	4.0	U	1.0	U	10	U	1.0	U	1.0	U	1.0	U
trans-1,4-Dichloro-2-butene	110-57-6	5	ug/L	-		-		-		-		-		-		-	
Trichloroethene	79-01-6	5	ug/L	1.0	U	4.0	U	1.0	U	10	U	1.0	U	1.0	U	1.0	U
Trichlorofluoromethane	75-69-4	5	ug/L	2.0	U	8.0	U	2.0	U	20	U	2.0	U	2.0	U	2.0	U
Vinyl acetate	108-05-4	NS	ug/L	-		-		-		-		-		-		-	
Vinyl chloride	75-01-4	2	ug/L	1.0	U	4.0	U	1.0	U	10	U	1.0	U	1.0	U	1.0	U
Xylenes, Total	1330-20-7	NS	ug/L	1.0	U	1430		3.5		4000		5.5		1.7		1.0	U

NOTES:

1. All results measured in ug/L

Concentration Exceeds NY AWQS

"-" = Not Analyzed

"NS" = No Applicable Standard

"U" = Not Detected

"J" = Estimated Concentration

NY-AWQS: New York TOGS 111 Ambient Water Quality Standards & Guidance Values Criteria per Standards & Guidance Value

TABLE 5.14
SUMMARY OF GROUNDWATER SAMPLING RESULTS—SVOCs

Sample ID:	CAS	NY-AWQS	Units	TW-1		TW-2		TW-3		TRIP BLANK		TW-5		TW-4		TW-6		TRIP BLANK		TW-4	
Sample Date:				7/10/2025		7/10/2025		7/29/2025		7/31/2025		7/31/2025		7/31/2025		8/1/2025		8/1/2025		8/1/2025	
Lab ID:				L2543250-05		L2543250-06		L2547611-02		L2548309-08		L2548309-10		L2548309-11		L2548397-03		L2548397-04		L2548398-01	
				Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
1,4 Dioxane by 8270E-SIM																					
1,4-Dioxane	123-91-1	0.35	ug/L	-	-	-	-	-	-	-	-	0.135	J	-	-	-	-	-	-	0.185	J
Semivolatile Organics by GC/MS																					
1,2,4,5-Tetrachlorobenzene	95-94-3	5	ug/L	10	U	10	U	-	-	-	-	13	U	-	-	-	-	-	-	10	U
1,2,4-Trichlorobenzene	120-82-1	5	ug/L	5	U	5	U	-	-	-	-	6.7	U	-	-	-	-	-	-	5	U
1,2-Dichlorobenzene	95-50-1	3	ug/L	2	U	2	U	-	-	-	-	2.7	U	-	-	-	-	-	-	2	U
1,3-Dichlorobenzene	541-73-1	3	ug/L	2	U	2	U	-	-	-	-	2.7	U	-	-	-	-	-	-	2	U
1,4-Dichlorobenzene	106-46-7	3	ug/L	2	U	2	U	-	-	-	-	2.7	U	-	-	-	-	-	-	2	U
2,4,5-Trichlorophenol	95-95-4	NS	ug/L	5	U	5	U	-	-	-	-	6.7	U	-	-	-	-	-	-	5	U
2,4,6-Trichlorophenol	88-06-2	NS	ug/L	5	U	5	U	-	-	-	-	6.7	U	-	-	-	-	-	-	5	U
2,4-Dichlorophenol	120-83-2	1	ug/L	5	U	5	U	-	-	-	-	6.7	U	-	-	-	-	-	-	5	U
2,4-Dimethylphenol	105-67-9	50	ug/L	5	U	5	U	-	-	-	-	6.7	U	-	-	-	-	-	-	5	U
2,4-Dinitrophenol	51-28-5	10	ug/L	20	U	20	U	-	-	-	-	27	U	-	-	-	-	-	-	20	U
2,4-Dinitrotoluene	121-14-2	5	ug/L	5	U	5	U	-	-	-	-	6.7	U	-	-	-	-	-	-	5	U
2,6-Dinitrotoluene	606-20-2	5	ug/L	5	U	5	U	-	-	-	-	6.7	U	-	-	-	-	-	-	5	U
2-Chloronaphthalene	91-58-7	10	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	95-57-8	NS	ug/L	2	U	2	U	-	-	-	-	2.7	U	-	-	-	-	-	-	2	U
2-Methylnaphthalene	91-57-6	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	95-48-7	NS	ug/L	5	U	5	U	-	-	-	-	6.7	U	-	-	-	-	-	-	5	U
2-Nitroaniline	88-74-4	5	ug/L	5	U	5	U	-	-	-	-	6.7	U	-	-	-	-	-	-	5	U
2-Nitrophenol	88-75-5	NS	ug/L	10	U	10	U	-	-	-	-	13	U	-	-	-	-	-	-	10	U
3,3'-Dichlorobenzidine	91-94-1	5	ug/L	5	U	5	U	-	-	-	-	6.7	U	-	-	-	-	-	-	5	U
3-Methylphenol/4-Methylphenol	108-39-4/106-44-5	NS	ug/L	2.5	J	5	U	-	-	-	-	6.7	U	-	-	-	-	-	-	5	U
3-Nitroaniline	99-09-2	5	ug/L	5	U	5	U	-	-	-	-	6.7	U	-	-	-	-	-	-	5	U
4,6-Dinitro-o-cresol	534-52-1	NS	ug/L	10	U	10	U	-	-	-	-	13	U	-	-	-	-	-	-	10	U
4-Bromophenyl phenyl ether	101-55-3	NS	ug/L	2	U	2	U	-	-	-	-	2.7	U	-	-	-	-	-	-	2	U
4-Chloroaniline	106-47-8	5	ug/L	5	U	5	U	-	-	-	-	6.7	U	-	-	-	-	-	-	5	U
4-Chlorophenyl phenyl ether	7005-72-3	NS	ug/L	2	U	2	U	-	-	-	-	2.7	U	-	-	-	-	-	-	2	U
4-Nitroaniline	100-01-6	5	ug/L	5	U	5	U	-	-	-	-	6.7	U	-	-	-	-	-	-	5	U
4-Nitrophenol	100-02-7	NS	ug/L	10	U	10	U	-	-	-	-	13	U	-	-	-	-	-	-	10	U
Acenaphthene	83-32-9	20	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	208-96-8	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetophenone	98-86-2	NS	ug/L	5	U	5	U	-	-	-	-	6.7	U	-	-	-	-	-	-	5	U
Anthracene	120-12-7	50	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	56-55-3	0.002	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	50-32-8	0	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	205-99-2	0.002	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(ghi)perylene	191-24-2	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	207-08-9	0.002	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzoic Acid	65-85-0	NS	ug/L	50	U	50	U	-	-	-	-	34	J	-	-	-	-	-	-	50	U
Benzyl Alcohol	100-51-6	NS	ug/L	2	U	2	U	-	-	-	-	2.7	U	-	-	-	-	-	-	2	U
Biphenyl	92-52-4	NS	ug/L	2	U	2	U	-	-	-	-	2.7	U	-	-	-	-	-	-	2	U
Bis(2-chloroethoxy)methane	111-91-1	5	ug/L	5	U	5	U	-	-	-	-	6.7	U	-	-	-	-	-	-	5	U
Bis(2-chloroethyl)ether	111-44-4	1	ug/L	2	U	2	U	-	-	-	-	2.7	U	-	-	-	-	-	-	2	U
Bis(2-chloroisopropyl)ether	108-60-1	5	ug/L	2	U	2	U	-	-	-	-	2.7	U	-	-	-	-	-	-	2	U
Bis(2-ethylhexyl)phthalate	117-81-7	5	ug/L	3	U	3	U	-	-	-	-	3.2	J	-	-	-	-	-	-	2.3	J
Butyl benzyl phthalate	85-68-7	50	ug/L	5	U	5	U	-	-	-	-	6.7	U	-	-	-	-	-	-	5	U
Carbazole	86-74-8	NS	ug/L	2	U	2	U	-	-	-	-	2.7	U	-	-	-	-	-	-	2	U
Chrysene	218-01-9	0.002	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate	84-74-2	50	ug/L	5	U	4.2	J	-	-	-	-	6.9		-	-	-	-	-	-	4.6	J
Di-n-octylphthalate	117-84-0	50	ug/L	5	U	5	U	-	-	-	-	6.7	U	-	-	-	-	-	-	5	U
Dibenzo(a,h)anthracene	53-70-3	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	132-64-9	NS	ug/L	2	U	2	U	-	-	-	-	2.7	U	-	-	-	-	-	-	2	U
Diethyl phthalate	84-66-2	50	ug/L	5	U	5	U	-	-	-	-	6.7	U	-	-	-	-	-	-	1.2	J
Dimethyl phthalate	131-11-3	50	ug/L	5	U	5	U	-	-	-	-	6.7	U	-	-	-	-	-	-	5	U
Fluoranthene	206-44-0	50	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	86-73-7	50	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	118-74-1	0.04	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	87-68-3	0.5	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	77-47-4	5	ug/L	20	U	20	U	-	-	-	-	27	U	-	-	-	-	-	-	20	U
Hexachloroethane	67-72-1	5	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	78-59-1	50	ug/L	5	U	5	U	-	-	-	-	6.7	U	-	-	-	-	-	-	5	U
n-Nitrosodi-n-propylamine	621-64-7	NS	ug/L	5	U	5	U	-	-	-	-	6.7	U	-	-	-	-	-	-	5	U
Naphthalene	91-20-3	10	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NDPA/DPA	86-30-6	50	ug/L	2	U	2	U	-	-	-	-	2.7	U	-	-	-	-	-	-	2	U
Nitrobenzene	98-95-3	0.4	ug/L	2	U	2	U	-	-	-	-	2.7	U	-	-	-	-	-	-	2	U
p-Chloro-m-cresol	59-50-7	NS	ug/L	2	U	2	U	-	-	-	-	2.7	U	-	-	-	-	-	-	2	U
Pentachlorophenol	87-86-5	1	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	85-01-8	50	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	108-95-2	1	ug/L	5	U	5	U	-	-	-	-	6.7	U	-	-	-	-	-	-	5	U
Pyrene	129-00-0	50	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semivolatile Organics by GC/MS-SIM																					
2-Chloronaphthalene	91-58-7	10	ug/L	0.2	U	0.2	U	-	-	-	-	0.27	U	-	-	-	-	-	-	0.2	U
2-Methylnaphthalene	91-57-6	NS	ug/L	0.42		0.73		-	-	-	-	0.13	U	-	-	-	-	-	-	0.06	J
Acenaphthene	83-32-9	20	ug/L	0.03	J	0.05	J	-	-	-	-	0.13	U	-	-	-	-	-	-	0.1	U
Acenaphthylene	208-96-8	NS	ug/L	0.1	U	0.1	U	-	-	-	-	0.13	U	-	-	-	-	-	-	0.1	U
Anthracene	120-12-7	50	ug/L	0.1	U	0.1	U	-	-	-	-	0.13	U	-	-	-	-	-	-	0.1	U
Benzo(a)anthracene	56-55-3	0.002	ug/L	0.1	U	0.1	U	-	-	-	-	0.06	J	-	-	-	-	-	-	0.04	J
Benzo(a)pyrene	50-32-8	0	ug/L	0.1	U	0.1	U	-	-	-	-	0.13	U	-	-	-	-	-	-	0.1	U
Benzo(b)fluoranthene	205-99-2	0.002	ug/L	0.1	U	0.1	U	-	-	-	-	0.13	U	-	-	-	-	-	-	0.1	U
Benzo(ghi)perylene	191-24-2	NS	ug/L	0.1	U	0.1	U	-	-	-	-	0.13	U	-	-	-	-	-	-	0.1	U
Benzo(k)fluoranthene	207-08-9	0.002	ug/L	0.1	U	0.1	U	-	-	-	-	0.13	U	-	-	-	-	-	-	0.1	U
Chrysene	218-01-9	0.002	ug/L	0.1	U	0.1	U	-	-	-	-	0.13	U	-	-	-	-	-	-	0.1	U
Dibenzo(a,h)anthracene	53-70-3	NS	ug/L	0.1	U	0.1	U	-	-	-	-	0.13	U	-	-	-	-	-	-	0.1	U
Fluoranthene	206-44-0	50	ug/L	0.03	J	0.04	J	-	-	-	-	0.04	J	-	-	-	-	-	-	0.03	J
Fluorene	86-73-7	50	ug/L	0.04	J	0.04	J	-	-	-	-	0.13	U	-	-	-	-	-	-	0.1	U
Hexachlorobenzene	118-74-1	0.04	ug/L	0.8	U	0.8	U	-	-	-	-	1.1	U	-	-	-	-	-	-	0.8	U
Hexachlorobutadiene	87-68-3	0.5	ug/L	0.5	U	0.5	U	-	-	-	-	0.67	U	-	-	-	-	-	-	0.5	U
Hexachloroethane	67-72-1	5	ug/L	0.8	U	0.8	U	-	-	-	-	1.1	U	-	-	-	-	-	-	0.8	U
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	ug/L	0.1	U	0.1	U	-	-	-	-	0.13	U	-	-	-	-	-	-	0.1	U
Naphthalene	91-20-3	10	ug/L	0.32		0.41		-	-	-	-	0.13	U	-	-	-	-	-	-	0.18	
Pentachlorophenol	87-86-5	1	ug/L	0.11	J	0.1	J	-	-	-	-	1.1	U	-	-	-	-	-	-	0.34	J
Phenanthrene	85-01-8	50	ug/L	0.05	J	0.06	J	-	-	-	-	0.13	U	-	-	-	-	-	-	0.1	U
Pyrene	129-00-0	50	ug/L	0.1	U	0.1	U	-	-	-	-	0.13	U	-	-	-	-	-	-	0.1	U

NOTES:

1. All results measured in ug/L

Concentration Exceeds NY AWQS

"-" = Not Analyzed

"NS" = No Applicable Standard

"U" = Not Detected

"J" = Estimated Concentration

NY-AWQS: New York TOGS 111 Ambient Water Quality Standards & Guidance Values Criteria per Standards & Guidance Values including all addenda through February 2023.

SESI
CONSULTING ENGINEERS

REMEDIAL INVESTIGATION REPORT

TABLE 5.14
SUMMARY OF GROUNDWATER SAMPLING RESULTS—SVOCs

26-28, 40, 60 East Post Road
223-225 Dr. MLK Jr. Blvd.
and Brookfield Street
White Plains, NY

Sample ID:	CAS	NY-AWQS	Units	FIELD BLANK		FIELD BLANK		FIELD BLANK		TW-7		TW-8		FIELD BLANK		TW-9		TW-10		TW-11	
Sample Date:				8/11/2025		8/12/2025		8/13/2025		8/14/2025		8/14/2025		8/14/2025		9/5/2025		9/5/2025		9/5/2025	
Lab ID:				L2550303-30		L2550665-22		L2551039-01		L2551402-01		L2551402-02		L2551402-03		JE18488-13		JE18488-14		JE18488-15	
				Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
1,4 Dioxane by 8270E-SIM																					
1,4-Dioxane	123-91-1	0.35	ug/L	0.127	J	0.3	U	-	-	0.109	J	0.126	J	0.116	J	0.10	U	-	-	0.10	U
Semivolatile Organics by GC/MS																					
1,2,4,5-Tetrachlorobenzene	95-94-3	5	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	2.0	U	-	-	2.0	U
1,2,4-Trichlorobenzene	120-82-1	5	ug/L	5	U	5	U	5	U	5	U	5	U	5	U	1.0	U	-	-	1.0	U
1,2-Dichlorobenzene	95-50-1	3	ug/L	2	U	2	U	2	U	2	U	2	U	2	U	1.0	U	-	-	1.0	U
1,3-Dichlorobenzene	541-73-1	3	ug/L	2	U	2	U	2	U	2	U	2	U	2	U	1.0	U	-	-	1.0	U
1,4-Dichlorobenzene	106-46-7	3	ug/L	2	U	2	U	2	U	2	U	2	U	2	U	1.0	U	-	-	1.0	U
2,4,5-Trichlorophenol	95-95-4	NS	ug/L	5	U	5	U	5	U	5	U	5	U	5	U	5.0	U	-	-	5.0	U
2,4,6-Trichlorophenol	88-06-2	NS	ug/L	5	U	5	U	5	U	5	U	5	U	5	U	5.0	U	-	-	5.0	U
2,4-Dichlorophenol	120-83-2	1	ug/L	5	U	5	U	5	U	5	U	5	U	5	U	2.0	U	-	-	2.0	U
2,4-Dimethylphenol	105-67-9	50	ug/L	5	U	5	U	5	U	5	U	5	U	5	U	5.0	U	-	-	5.0	U
2,4-Dinitrophenol	51-28-5	10	ug/L	20	U	20	U	20	U	20	U	20	U	20	U	5.0	U	-	-	5.0	U
2,4-Dinitrotoluene	121-14-2	5	ug/L	5	U	5	U	5	U	5	U	5	U	5	U	1.0	U	-	-	1.0	U
2,6-Dinitrotoluene	606-20-2	5	ug/L	5	U	5	U	5	U	5	U	5	U	5	U	1.0	U	-	-	1.0	U
2-Chloronaphthalene	91-58-7	10	ug/L	2	U	2	U	2	U	-	-	-	-	-	-	2.0	U	-	-	2.0	U
2-Chlorophenol	95-57-8	NS	ug/L	2	U	2	U	2	U	2	U	2	U	2	U	5.0	U	-	-	5.0	U
2-Methylnaphthalene	91-57-6	NS	ug/L	2	U	2	U	2	U	-	-	-	-	-	-	0.55	J	-	-	1.0	U
2-Methylphenol	95-48-7	NS	ug/L	5	U	5	U	5	U	5	U	5	U	5	U	2.0	U	-	-	2.0	U
2-Nitroaniline	88-74-4	5	ug/L	5	U	5	U	5	U	5	U	5	U	5	U	5.0	U	-	-	5.0	U
2-Nitrophenol	88-75-5	NS	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	5.0	U	-	-	5.0	U
3,3'-Dichlorobenzidine	91-94-1	5	ug/L	5	U	5	U	5	U	5	U	5	U	5	U	2.0	U	-	-	2.0	U
3-Methylphenol/4-Methylphenol	108-39-4/106-44-5	NS	ug/L	5	U	5	U	5	U	5	U	5	U	5	U	-		-	-	-	
3-Nitroaniline	99-09-2	5	ug/L	5	U	5	U	5	U	5	U	5	U	5	U	5.0	U	-	-	5.0	U
4,6-Dinitro-o-cresol	534-52-1	NS	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	5.0	U	-	-	5.0	U
4-Bromophenyl phenyl ether	101-55-3	NS	ug/L	2	U	2	U	2	U	2	U	2	U	2	U	2.0	U	-	-	2.0	U
4-Chloroaniline	106-47-8	5	ug/L	5	U	5	U	5	U	5	U	5	U	5	U	5.0	U	-	-	5.0	U
4-Chlorophenyl phenyl ether	7005-72-3	NS	ug/L	2	U	2	U	2	U	2	U	2	U	2	U	2.0	U	-	-	2.0	U
4-Nitroaniline	100-01-6	5	ug/L	5	U	5	U	5	U	5	U	5	U	5	U	5.0	U	-	-	5.0	U
4-Nitrophenol	100-02-7	NS	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U	-	-	10	U
Acenaphthene	83-32-9	20	ug/L	2	U	2	U	2	U	-	-	-	-	-	-	1.0	U	-	-	1.0	U
Acenaphthylene	208-96-8	NS	ug/L	2	U	2	U	2	U	-	-	-	-	-	-	1.0	U	-	-	1.0	U
Acetophenone	98-86-2	NS	ug/L	5	U	5	U	5	U	5	U	5	U	5	U	2.0	U	-	-	2.0	U
Anthracene	120-12-7	50	ug/L	2	U	2	U	2	U	-	-	-	-	-	-	1.0	U	-	-	1.0	U
Benzo(a)anthracene	56-55-3	0.002	ug/L	2	U	2	U	2	U	-	-	-	-	-	-	1.0	U	-	-	1.0	U
Benzo(a)pyrene	50-32-8	0	ug/L	2	U	2	U	2	U	-	-	-	-	-	-	1.0	U	-	-	1.0	U
Benzo(b)fluoranthene	205-99-2	0.002	ug/L	2	U	2	U	2	U	-	-	-	-	-	-	1.0	U	-	-	1.0	U
Benzo(ghi)perylene	191-24-2	NS	ug/L	2	U	2	U	2	U	-	-	-	-	-	-	1.0	U	-	-	1.0	U
Benzo(k)fluoranthene	207-08-9	0.002	ug/L	2	U	2	U	2	U	-	-	-	-	-	-	1.0	U	-	-	1.0	U
Benzoic Acid	65-85-0	NS	ug/L	50	U	15	J	50	U	50	U	50	U	50	U	-	-	-	-	-	-
Benzyl Alcohol	100-51-6	NS	ug/L	2	U	2	U	2	U	2	U	2	U	2	U	-	-	-	-	-	-
Biphenyl	92-52-4	NS	ug/L	2	U	2	U	2	U	2	U	2	U	2	U	1.0	U	-	-	1.0	U
Bis(2-chloroethoxy)methane	111-91-1	5	ug/L	5	U	5	U	5	U	5	U	5	U	5	U	2.0	U	-	-	2.0	U
Bis(2-chloroethyl)ether	111-44-4	1	ug/L	2	U	2	U	2	U	2	U	2	U	2	U	2.0	U	-	-	2.0	U
Bis(2-chloroisopropyl)ether	108-60-1	5	ug/L	2	U	2	U	2	U	2	U	2	U	2	U	2.0	U	-	-	2.0	U
Bis(2-ethylhexyl)phthalate	117-81-7	5	ug/L	1.6	J	2	J	3	U	5.2		2.5	J	3	U	2.0	U	-	-	2.0	U
Butyl benzyl phthalate	85-68-7	50	ug/L	5	U	5	U	5	U	5	U	5	U	5	U	2.0	U	-	-	2.0	U
Carbazole	86-74-8	NS	ug/L	2	U	2	U	2	U	2	U	2	U	2	U	1.0	U	-	-	1.0	U
Chrysene	218-01-9	0.002	ug/L	2	U	2	U	2	U	-	-	-	-	-	-	1.0	U	-	-	1.0	U
Di-n-butylphthalate	84-74-2	50	ug/L	5	U	5	U	5	U	1.1	J	5		4.7	J	2.0	U	-	-	2.0	U
Di-n-octylphthalate	117-84-0	50	ug/L	5	U	5	U	5	U	5	U	5	U	5	U	2.0	U	-	-	2.0	U
Dibenzo(a,h)anthracene	53-70-3	NS	ug/L	2	U	2	U	2	U	-	-	-	-	-	-	1.0	U	-	-	1.0	U
Dibenzofuran	132-64-9	NS	ug/L	2	U	2	U	2	U	2	U	2	U	2	U	5.0	U	-	-	5.0	U
Diethyl phthalate	84-66-2	50	ug/L	5	U	5	U	5	U	5	U	1.6	J	5	U	2.0	U	-	-	2.0	U
Dimethyl phthalate	131-11-3	50	ug/L	5	U	5	U	5	U	5	U	5	U	5	U	2.0	U	-	-	2.0	U
Fluoranthene	206-44-0	50	ug/L	2	U	2	U	2	U	-	-	-	-	-	-	1.0	U	-	-	1.0	U
Fluorene	86-73-7	50	ug/L	2	U	2	U	2	U	-	-	-	-	-	-	1.0	U	-	-	1.0	U
Hexachlorobenzene	118-74-1	0.04	ug/L	2	U	2	U	2	U	-	-	-	-	-	-	1.0	U	-	-	1.0	U
Hexachlorobutadiene	87-68-3	0.5	ug/L	2	U	2	U	2	U	-	-	-	-	-	-	1.0	U	-	-	1.0	U
Hexachlorocyclopentadiene	77-47-4	5	ug/L	20	U	20	U	20	U	20	U	20	U	20	U	10	U	-	-	10	U
Hexachloroethane	67-72-1	5	ug/L	2	U	2	U	2	U	-	-	-	-	-	-	1.0	U	-	-	1.0	U
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	ug/L	2	U	2	U	2	U	-	-	-	-	-	-	1.0	U	-	-	1.0	U
Isophorone	78-59-1	50	ug/L	5	U	5	U	5	U	5	U	5	U	5	U	2.0	U	-	-	2.0	U
n-Nitrosodi-n-propylamine	621-64-7	NS	ug/L	5	U	5	U	5	U	5	U	5	U	5	U	2.0	U	-	-	2.0	U
Naphthalene	91-20-3	10	ug/L	2	U	2	U	2	U	-	-	-	-	-	-	0.26	J	-	-	1.0	U
NDPA/DPA	86-30-6	50	ug/L	2	U	2	U	2	U	2	U	2	U	2	U	5.0	U	-	-	5.0	U
Nitrobenzene	98-95-3	0.4	ug/L	2	U	2	U	2	U	2	U	2	U	2	U	2.0	U	-	-	2.0	U
p-Chloro-m-cresol	59-50-7	NS	ug/L	2	U	2	U	2	U	2	U	2	U	2	U	5.0	U	-	-	5.0	U
Pentachlorophenol	87-86-5	1	ug/L	10	U	10	U	10	U	-	-	-	-	-	-	4.0	U	-	-	4.0	U
Phenanthrene	85-01-8	50	ug/L	2	U	2	U	2	U	-	-	-	-	-	-	1.0	U	-	-	1.0	U
Phenol	108-95-2	1	ug/L	5	U	5	U	5	U	5	U	5	U	5	U	2.0	U	-	-	2.0	U
Pyrene	129-00-0	50	ug/L	2	U	2	U	2	U	-	-	-	-	-	-	1.0	U	-	-	1.0	U
Semivolatile Organics by GC/MS-SIM																					
2-Chloronaphthalene	91-58-7	10	ug/L	-	-	-	-	-	-	0.2	U	0.2	U	0.2	U	-		-		-	
2-Methylnaphthalene	91-57-6	NS	ug/L	-	-	-	-	-	-	0.03	J	0.09	J	0.1	U	-		-		-	
Acenaphthene	83-32-9	20	ug/L	-	-	-	-	-	-	0.1	U	0.1	U	0.1	U	-		-		-	
Acenaphthylene	208-96-8	NS	ug/L	-	-	-	-	-	-	0.1	U	0.1	U	0.1	U	-		-		-	
Anthracene	120-12-7	50	ug/L	-	-	-	-	-	-	0.1	U	0.1	U	0.1	U	-		-		-	
Benzo(a)anthracene	56-55-3	0.002	ug/L	-	-	-	-	-	-	0.11		0.13		0.03	J	-		-		-	
Benzo(a)pyrene	50-32-8	0	ug/L	-	-	-	-	-	-	0.08	J	0.22		0.1	U	-		-		-	
Benzo(b)fluoranthene	205-99-2	0.002	ug/L	-	-	-	-	-	-	0.12		0.32		0.1	U	-		-		-	
Benzo(ghi)perylene	191-24-2	NS	ug/L	-	-	-	-	-	-	0.08	J	0.27		0.1	U	-		-		-	
Benzo(k)fluoranthene	207-08-9	0.002	ug/L	-	-	-	-	-	-	0.04	J	0.09	J	0.1	U	-		-		-	
Chrysene	218-01-9	0.002	ug/L	-	-	-	-	-	-	0.05	J	0.12		0.1	U	-		-		-	
Dibenzo(a,h)anthracene	53-70-3	NS	ug/L	-	-	-	-	-	-	0.1	U	0.09	J	0.1	U	-		-		-	
Fluoranthene	206-44-0	50	ug/L	-	-	-	-	-	-	0.15		0.28		0.1	U	-		-		-	
Fluorene	86-73-7	50	ug/L	-	-	-	-	-	-	0.1	U	0.1	U	0.1	U	-		-		-	
Hexachlorobenzene	118-74-1	0.04	ug/L	-	-	-	-	-	-	0.8	U	0.8	U	0.8	U	-		-		-	
Hexachlorobutadiene	87-68-3	0.5	ug/L	-	-	-	-	-	-	0.5	U	0.5	U	0.5	U	-		-		-	
Hexachloroethane	67-72-1	5	ug/L	-	-	-	-	-	-	0.8	U	0.8	U	0.8	U	-		-		-	
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	ug/L	-	-	-	-	-	-	0.08	J	0.28		0.1	U	-		-		-	
Naphthalene	91-20-3	10	ug/L	-	-	-	-	-	-	0.1	U	0.06	J	0.1	U	-		-		-	
Pentachlorophenol	87-86-5	1	ug/L	-	-	-	-	-	-	0.28	J	0.29	J	0.8	U	-		-		-	
Phenanthrene	85-01-8	50	ug/L	-	-	-	-	-	-	0.07	J	0.06	J	0.1	U	-		-		-	
Pyrene	129-00-0	50	ug/L	-	-	-	-	-	-	0.15		0.24		0.1	U	-		-		-	

NOTES:

1. All results measured in ug/L

Concentration Exceeds NY AWQS

"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
NY-AWQS: New York TOGS 111 Ambient Water Quality Standards & Guidance Values Criteria per Standards & Guidance Va

SESI
CONSULTING ENGINEERS

REMEDIAL INVESTIGATION REPORT

TABLE 5.14
SUMMARY OF GROUNDWATER SAMPLING RESULTS—SVOCs

26-28, 40, 60 East Post Road
223-225 Dr. MLK Jr. Blvd.
and Brookfield Street
White Plains, NY

Sample ID:	CAS	NY-AWQS	Units	TW-12		TW-13		TW-14		TW-15		TW-16		TW-17		TW-18	
Sample Date:				9/8/2025		9/8/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/10/2025	
Lab ID:				JE18629-10		JE18629-11		JE18698-20		JE18698-21		JE18698-22		JE18698-23		JE18798-1	
				Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
1,4 Dioxane by 8270E-SIM																	
1,4-Dioxane	123-91-1	0.35	ug/L	0.10	U	0.10	U	0.10	U	0.10	U	0.289		0.10	U	0.11	U
Semivolatile Organics by GC/MS																	
1,2,4,5-Tetrachlorobenzene	95-94-3	5	ug/L	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
1,2,4-Trichlorobenzene	120-82-1	5	ug/L	1.0	U	4.0	U	1.0	U	10	U	1.0	U	1.0	U	1.0	U
1,2-Dichlorobenzene	95-50-1	3	ug/L	1.0	U	4.0	U	1.0	U	10	U	1.0	U	1.0	U	1.0	U
1,3-Dichlorobenzene	541-73-1	3	ug/L	1.0	U	4.0	U	1.0	U	10	U	1.0	U	1.0	U	1.0	U
1,4-Dichlorobenzene	106-46-7	3	ug/L	1.0	U	4.0	U	1.0	U	10	U	1.0	U	1.0	U	1.0	U
2,4,5-Trichlorophenol	95-95-4	NS	ug/L	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,4,6-Trichlorophenol	88-06-2	NS	ug/L	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,4-Dichlorophenol	120-83-2	1	ug/L	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
2,4-Dimethylphenol	105-67-9	50	ug/L	5.0	U	9.5		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,4-Dinitrophenol	51-28-5	10	ug/L	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,4-Dinitrotoluene	121-14-2	5	ug/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
2,6-Dinitrotoluene	606-20-2	5	ug/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
2-Chloronaphthalene	91-58-7	10	ug/L	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
2-Chlorophenol	95-57-8	NS	ug/L	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Methylnaphthalene	91-57-6	NS	ug/L	1.0	U	94.9		1.0	U	49.9		10.6		0.97	J	0.26	J
2-Methylphenol	95-48-7	NS	ug/L	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
2-Nitroaniline	88-74-4	5	ug/L	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Nitrophenol	88-75-5	NS	ug/L	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
3,3'-Dichlorobenzidine	91-94-1	5	ug/L	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
3-Methylphenol/4-Methylphenol	108-39-4/106-44-5	NS	ug/L	-		-		-		-		-		-		-	
3-Nitroaniline	99-09-2	5	ug/L	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4,6-Dinitro-o-cresol	534-52-1	NS	ug/L	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Bromophenyl phenyl ether	101-55-3	NS	ug/L	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
4-Chloroaniline	106-47-8	5	ug/L	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Chlorophenyl phenyl ether	7005-72-3	NS	ug/L	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
4-Nitroaniline	100-01-6	5	ug/L	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Nitrophenol	100-02-7	NS	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Acenaphthene	83-32-9	20	ug/L	1.0	U	0.44	J	1.0	U	0.72	J	1.0	U	0.64	J	1.0	U
Acenaphthylene	208-96-8	NS	ug/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Acetophenone	98-86-2	NS	ug/L	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Anthracene	120-12-7	50	ug/L	1.0	U	1.0	U	1.0	U	0.37	J	1.0	U	0.34	J	1.0	U
Benzo(a)anthracene	56-55-3	0.002	ug/L	1.0	U	1.0	U	0.80	J	0.41	J	0.29	J	0.71	J	1.0	U
Benzo(a)pyrene	50-32-8	0	ug/L	1.0	U	1.0	U	0.76	J	0.29	J	0.43	J	1		1.0	U
Benzo(b)fluoranthene	205-99-2	0.002	ug/L	1.0	U	1.0	U	1		0.46	J	0.52	J	1.1		1.0	U
Benzo(ghi)perylene	191-24-2	NS	ug/L	1.0	U	1.0	U	0.65	J	0.38	J	0.88	J	1.1		1.0	U
Benzo(k)fluoranthene	207-08-9	0.002	ug/L	1.0	U	1.0	U	0.36	J	1.0	U	1.0	U	0.39	J	1.0	U
Benzoic Acid	65-85-0	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzyl Alcohol	100-51-6	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Biphenyl	92-52-4	NS	ug/L	1.0	U	1.6		1.0	U	0.57 J		1.0	U	0.96 J		1.0	U
Bis(2-chloroethoxy)methane	111-91-1	5	ug/L	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Bis(2-chloroethyl)ether	111-44-4	1	ug/L	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Bis(2-chloroisopropyl)ether	108-60-1	5	ug/L	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Bis(2-ethylhexyl)phthalate	117-81-7	5	ug/L	2.0	U	2.0	U	2.0	U	2.1		2.0	U	2.0	U	2.0	U
Butyl benzyl phthalate	85-68-7	50	ug/L	2.0	U	2.0	U	2.0	U	0.98	J	2.0	U	2.0	U	2.0	U
Carbazole	86-74-8	NS	ug/L	1.0	U	1.0	U	1.0 U		0.63	J	1.0	U	0.29	J	1.0	U
Chrysene	218-01-9	0.002	ug/L	1.0	U	1.0	U	0.71	J	0.30	J	0.24	J	0.79	J	1.0	U
Di-n-butylphthalate	84-74-2	50	ug/L	2.0	U	2.0	U	2.0	U	0.6	J	2.0	U	2.0	U	2.0	U
Di-n-octylphthalate	117-84-0	50	ug/L	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Dibenzo(a,h)anthracene	53-70-3	NS	ug/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Dibenzofuran	132-64-9	NS	ug/L	5.0	U	5.0	U	5.0	U	0.36	J	5.0	U	5.0	U	5.0	U
Diethyl phthalate	84-66-2	50	ug/L	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Dimethyl phthalate	131-11-3	50	ug/L	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Fluoranthene	206-44-0	50	ug/L	1.0	U	1.0	U	1.6		0.75	J	0.39	J	1.4		1.0	U
Fluorene	86-73-7	50	ug/L	1.0	U	0.49 J		1.0	U	0.49	J	1.0	U	0.22	J	1.0	U
Hexachlorobenzene	118-74-1	0.04	ug/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Hexachlorobutadiene	87-68-3	0.5	ug/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Hexachlorocyclopentadiene	77-47-4	5	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Hexachloroethane	67-72-1	5	ug/L	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	ug/L	1.0	U	1.0	U	0.65	J	1.0	U	0.58	J	0.86	J	1.0	U
Isophorone	78-59-1	50	ug/L	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
n-Nitrosodi-n-propylamine	621-64-7	NS	ug/L	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Naphthalene	91-20-3	10	ug/L	1.0	U	199		0.26	J	152		6.6		0.83	J	0.54	J
NDPA/DPA	86-30-6	50	ug/L	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Nitrobenzene	98-95-3	0.4	ug/L	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
p-Chloro-m-cresol	59-50-7	NS	ug/L	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Pentachlorophenol	87-86-5	1	ug/L	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U
Phenanthrene	85-01-8	50	ug/L	1.0	U	0.87	J	0.47	J	1.1		1.0	U	1.2		1.0	U
Phenol	108-95-2	1	ug/L	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Pyrene	129-00-0	50	ug/L	1.0	U	1.0	U	1.4		0.68 J		0.34 J		1.4		1.0	U
Semivolatile Organics by GC/MS-SIM																	
2-Chloronaphthalene	91-58-7	10	ug/L	-		-		-		-		-		-		-	
2-Methylnaphthalene	91-57-6	NS	ug/L	-		-		-		-		-		-		-	
Acenaphthene	83-32-9	20	ug/L	-		-		-		-		-		-		-	
Acenaphthylene	208-96-8	NS	ug/L	-		-		-		-		-		-		-	
Anthracene	120-12-7	50	ug/L	-		-		-		-		-		-		-	
Benzo(a)anthracene	56-55-3	0.002	ug/L	-		-		-		-		-		-		-	
Benzo(a)pyrene	50-32-8	0	ug/L	-		-		-		-		-		-		-	
Benzo(b)fluoranthene	205-99-2	0.002	ug/L	-		-		-		-		-		-		-	
Benzo(ghi)perylene	191-24-2	NS	ug/L	-		-		-		-		-		-		-	
Benzo(k)fluoranthene	207-08-9	0.002	ug/L	-		-		-		-		-		-		-	
Chrysene	218-01-9	0.002	ug/L	-		-		-		-		-		-		-	
Dibenzo(a,h)anthracene	53-70-3	NS	ug/L	-		-		-		-		-		-		-	
Fluoranthene	206-44-0	50	ug/L	-		-		-		-		-		-		-	
Fluorene	86-73-7	50	ug/L	-		-		-		-		-		-		-	
Hexachlorobenzene	118-74-1	0.04	ug/L	-		-		-		-		-		-		-	
Hexachlorobutadiene	87-68-3	0.5	ug/L	-		-		-		-		-		-		-	
Hexachloroethane	67-72-1	5	ug/L	-		-		-		-		-		-		-	
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	ug/L	-		-		-		-		-		-		-	
Naphthalene	91-20-3	10	ug/L	-		-		-		-		-		-		-	
Pentachlorophenol	87-86-5	1	ug/L	-		-		-		-		-		-		-	
Phenanthrene	85-01-8	50	ug/L	-		-		-		-		-		-		-	
Pyrene	129-00-0	50	ug/L	-		-		-		-		-		-		-	

NOTES:

1. All results measured in ug/L
Concentration Exceeds NY AWQS
"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
NY-AWQS: New York TOGS 111 Ambient Water Quality Standards & Guidance Values Criteria per Standards & Guidance Va

SESI
CONSULTING ENGINEERS

REMEDIAL INVESTIGATION REPORT

TABLE 5.15
SUMMARY OF GROUNDWATER SAMPLING RESULTS—PESTICIDES

26-28, 40, 60 East Post Road
223-225 Dr. MLK Jr. Blvd.
and Brookfield Street
White Plains, NY

Sample ID:	**CAS**	**NY-AWQS**	**Units**	TW-1		TW-2		TW-3		TRIP BLANK		TW-5		TW-4		TW-6		TRIP BLANK		TW-4	
Sample Date:				7/10/2025		7/10/2025		7/29/2025		7/31/2025		7/31/2025		7/31/2025		8/1/2025		8/1/2025		8/1/2025	
Lab ID:				L2543250-05		L2543250-06		L2547611-02		L2548309-08		L2548309-10		L2548309-11		L2548397-03		L2548397-04		L2548398-01	
				Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Organochlorine Pesticides by GC																					
4,4'-DDD	72-54-8	0.3	ug/L	0.029	U	0.029	U	-	-	-	-	0.029	U	-	-	-	-	-	-	0.029	U
4,4'-DDE	72-55-9	0.2	ug/L	0.029	U	0.029	U	-	-	-	-	0.029	U	-	-	-	-	-	-	0.029	U
4,4'-DDT	50-29-3	0.2	ug/L	0.029	U	0.029	U	-	-	-	-	0.029	U	-	-	-	-	-	-	0.029	U
Aldrin	309-00-2	0	ug/L	0.014	U	0.014	U	-	-	-	-	0.014	U	-	-	-	-	-	-	0.014	U
Alpha-BHC	319-84-6	0.01	ug/L	0.014	U	0.014	U	-	-	-	-	0.014	U	-	-	-	-	-	-	0.014	U
Beta-BHC	319-85-7	0.04	ug/L	0.02	U	0.02	U	-	-	-	-	0.02	U	-	-	-	-	-	-	0.02	U
Chlordane	57-74-9	0.05	ug/L	0.143	U	0.143	U	-	-	-	-	0.143	U	-	-	-	-	-	-	0.143	U
cis-Chlordane	5103-71-9	NS	ug/L	0.02	U	0.02	U	-	-	-	-	0.02	U	-	-	-	-	-	-	0.02	U
Delta-BHC	319-86-8	0.04	ug/L	0.014	U	0.014	U	-	-	-	-	0.014	U	-	-	-	-	-	-	0.014	U
Dieldrin	60-57-1	0.004	ug/L	0.029	U	0.029	U	-	-	-	-	0.029	U	-	-	-	-	-	-	0.029	U
Endosulfan I	959-98-8	NS	ug/L	0.014	U	0.014	U	-	-	-	-	0.014	U	-	-	-	-	-	-	0.014	U
Endosulfan II	33213-65-9	NS	ug/L	0.029	U	0.029	U	-	-	-	-	0.029	U	-	-	-	-	-	-	0.029	U
Endosulfan sulfate	1031-07-8	NS	ug/L	0.029	U	0.029	U	-	-	-	-	0.029	U	-	-	-	-	-	-	0.029	U
Endrin	72-20-8	0	ug/L	0.029	U	0.029	U	-	-	-	-	0.029	U	-	-	-	-	-	-	0.029	U
Endrin aldehyde	7421-93-4	5	ug/L	0.03	U	0.03	U	-	-	-	-	0.03	U	-	-	-	-	-	-	0.03	U
Endrin ketone	53494-70-5	5	ug/L	0.029	U	0.029	U	-	-	-	-	0.029	U	-	-	-	-	-	-	0.029	U
Heptachlor	76-44-8	0.04	ug/L	0.014	U	0.014	U	-	-	-	-	0.014	U	-	-	-	-	-	-	0.014	U
Heptachlor epoxide	1024-57-3	0.03	ug/L	0.014	U	0.014	U	-	-	-	-	0.014	U	-	-	-	-	-	-	0.014	U
Lindane	58-89-9	0.05	ug/L	0.014	U	0.014	U	-	-	-	-	0.014	U	-	-	-	-	-	-	0.014	U
Methoxychlor	72-43-5	35	ug/L	0.143	U	0.143	U	-	-	-	-	0.143	U	-	-	-	-	-	-	0.143	U
Toxaphene	8001-35-2	0.06	ug/L	0.2	U	0.2	U	-	-	-	-	0.2	U	-	-	-	-	-	-	0.2	U
trans-Chlordane	5103-74-2	NS	ug/L	0.02	U	0.02	U	-	-	-	-	0.02	U	-	-	-	-	-	-	0.02	U

NOTES:

1. All results measured in ug/L

Concentration Exceeds NY AWQS

"-" = Not Analyzed

"NS" = No Applicable Standard

"U" = Not Detected

"J" = Estimated Concentration

NY-AWQS: New York TOGS 111 Ambient Water Quality Standards & Guidance Values Criteria per Standards & Guidance Values including all addenda through February 2023.

TABLE 5.15
SUMMARY OF GROUNDWATER SAMPLING RESULTS—PESTICIDES

Sample ID:	CAS	NY-AWQS	Units	FIELD BLANK		FIELD BLANK		FIELD BLANK		TW-7		TW-8		FIELD BLANK		TW-9		TW-10		TW-11	
Sample Date:				8/11/2025		8/12/2025		8/13/2025		8/14/2025		8/14/2025		8/14/2025		9/5/2025		9/5/2025		9/5/2025	
Lab ID:				L2550303-30		L2550665-22		L2551039-01		L2551402-01		L2551402-02		L2551402-03		JE18488-13		JE18488-14		JE18488-15	
				Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Organochlorine Pesticides by GC																					
4,4'-DDD	72-54-8	0.3	ug/L	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.0050	U	-	-	0.0050	U
4,4'-DDE	72-55-9	0.2	ug/L	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.0050	U	-	-	0.0050	U
4,4'-DDT	50-29-3	0.2	ug/L	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.0050	U	-	-	0.0050	U
Aldrin	309-00-2	0	ug/L	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.0050	U	-	-	0.0050	U
Alpha-BHC	319-84-6	0.01	ug/L	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.0050	U	-	-	0.0050	U
Beta-BHC	319-85-7	0.04	ug/L	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.0050	U	-	-	0.0050	U
Chlordane	57-74-9	0.05	ug/L	0.143	U	0.143	U	0.143	U	0.143	U	0.143	U	0.143	U	0.0050	U	-	-	0.0050	U
cis-Chlordane	5103-71-9	NS	ug/L	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.0050	U	-	-	0.0050	U
Delta-BHC	319-86-8	0.04	ug/L	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.0050	U	-	-	0.0050	U
Dieldrin	60-57-1	0.004	ug/L	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.0050	U	-	-	0.0050	U
Endosulfan I	959-98-8	NS	ug/L	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.0050	U	-	-	0.0050	U
Endosulfan II	33213-65-9	NS	ug/L	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.0050	U	-	-	0.0050	U
Endosulfan sulfate	1031-07-8	NS	ug/L	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.0050	U	-	-	0.0050	U
Endrin	72-20-8	0	ug/L	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.0050	U	-	-	0.0050	U
Endrin aldehyde	7421-93-4	5	ug/L	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	0.0050	U	-	-	0.0050	U
Endrin ketone	53494-70-5	5	ug/L	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.0050	U	-	-	0.0050	U
Heptachlor	76-44-8	0.04	ug/L	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.0050	U	-	-	0.0050	U
Heptachlor epoxide	1024-57-3	0.03	ug/L	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.0050	U	-	-	0.0050	U
Lindane	58-89-9	0.05	ug/L	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.0050	U	-	-	0.0050	U
Methoxychlor	72-43-5	35	ug/L	0.143	U	0.143	U	0.143	U	0.143	U	0.143	U	0.143	U	0.010	U	-	-	0.010	U
Toxaphene	8001-35-2	0.06	ug/L	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.13	U	-	-	0.13	U
trans-Chlordane	5103-74-2	NS	ug/L	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.0050	U	-	-	0.0050	U

NOTES:

1. All results measured in ug/L

Concentration Exceeds NY AWQS

"-" = Not Analyzed

"NS" = No Applicable Standard

"U" = Not Detected

"J" = Estimated Concentration

NY-AWQS: New York TOGS 111 Ambient Water Quality Standards & Guidance Values Criteria per Standards & Guidance Value

TABLE 5.15
SUMMARY OF GROUNDWATER SAMPLING RESULTS—PESTICIDES

Sample ID:	CAS	NY-AWQS	Units	TW-12		TW-13		TW-14		TW-15		TW-16		TW-17		TW-18	
Sample Date:				9/8/2025		9/8/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/10/2025	
Lab ID:				JE18629-10		JE18629-11		JE18698-20		JE18698-21		JE18698-22		JE18698-23		JE18798-1	
				Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Organochlorine Pesticides by GC																	
4,4'-DDD	72-54-8	0.3	ug/L	0.0057		0.0050	U	0.0050	U	0.0071		0.0050	U	0.022		0.0056	U
4,4'-DDE	72-55-9	0.2	ug/L	0.0046	J	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0066		0.0056	U
4,4'-DDT	50-29-3	0.2	ug/L	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050 U		0.0056	U
Aldrin	309-00-2	0	ug/L	0.0050	U	0.0050	U	0.0050	U	0.0085		0.0050	U	0.0050 U		0.0056	U
Alpha-BHC	319-84-6	0.01	ug/L	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050 U		0.0056	U
Beta-BHC	319-85-7	0.04	ug/L	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050 U		0.0056	U
Chlordane	57-74-9	0.05	ug/L	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050 U		0.0056	U
cis-Chlordane	5103-71-9	NS	ug/L	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050 U		0.0056	U
Delta-BHC	319-86-8	0.04	ug/L	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050 U		0.0056	U
Dieldrin	60-57-1	0.004	ug/L	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050 U		0.0056	U
Endosulfan I	959-98-8	NS	ug/L	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.016		0.0056	U
Endosulfan II	33213-65-9	NS	ug/L	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050 U		0.0056	U
Endosulfan sulfate	1031-07-8	NS	ug/L	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050 U		0.0056	U
Endrin	72-20-8	0	ug/L	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050 U		0.0056	U
Endrin aldehyde	7421-93-4	5	ug/L	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050 U		0.0056	U
Endrin ketone	53494-70-5	5	ug/L	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050 U		0.0056	U
Heptachlor	76-44-8	0.04	ug/L	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050 U		0.0056	U
Heptachlor epoxide	1024-57-3	0.03	ug/L	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050 U		0.0056	U
Lindane	58-89-9	0.05	ug/L	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050 U		0.0056	U
Methoxychlor	72-43-5	35	ug/L	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.011	U
Toxaphene	8001-35-2	0.06	ug/L	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.14	U
trans-Chlordane	5103-74-2	NS	ug/L	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0056	U

NOTES:

1. All results measured in ug/L

Concentration Exceeds NY AWQS

"-" = Not Analyzed

"NS" = No Applicable Standard

"U" = Not Detected

"J" = Estimated Concentration

NY-AWQS: New York TOGS 111 Ambient Water Quality Standards & Guidance Values Criteria per Standards & Guidance Value

SESI
CONSULTING ENGINEERS

REMEDIAL INVESTIGATION REPORT

TABLE 5.16
SUMMARY OF GROUNDWATER SAMPLING RESULTS—METALs

26-28, 40, 60 East Post Road
223-225 Dr. MLK Jr. Blvd.
and Brookfield Street
White Plains, NY

Sample ID:	**CAS**	**NY-AWQS**	**Units**	TW-1		TW-2		TW-3		TRIP BLANK		TW-5		TW-4		TW-6		TRIP BLANK		TW-4	
Sample Date:				7/10/2025		7/10/2025		7/29/2025		7/31/2025		7/31/2025		7/31/2025		8/1/2025		8/1/2025		8/1/2025	
Lab ID:				L2543250-05		L2543250-06		L2547611-02		L2548309-08		L2548309-10		L2548309-11		L2548397-03		L2548397-04		L2548398-01	
				Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Total Metals																					
Aluminum, Total	7429-90-5	NS	ug/L	467		304		408000		-	-	383000		-	-	349000		-	-	24400	
Antimony, Total	7440-36-0	3	ug/L	0.89	J	0.7	J	20	U	-	-	20	U	-	-	20	U	-	-	4	U
Arsenic, Total	7440-38-2	25	ug/L	2.38		3.04		66.56		-	-	44.93		-	-	39.46		-	-	6.31	
Barium, Total	7440-39-3	1000	ug/L	240.5		222.1		11310		-	-	11190		-	-	8725		-	-	677.1	
Beryllium, Total	7440-41-7	3	ug/L	0.5	U	0.5	U	19.74		-	-	14.76		-	-	17.71		-	-	1.02	
Cadmium, Total	7440-43-9	5	ug/L	0.93		0.67		11.41		-	-	7.21		-	-	6.9		-	-	0.51	
Calcium, Total	7440-70-2	NS	ug/L	156000		136000		1980000		-	-	2310000		-	-	1120000		-	-	229000	
Chromium, Total	7440-47-3	50	ug/L	1.09		0.78	J	748.1		-	-	868.4		-	-	843		-	-	38.46	
Cobalt, Total	7440-48-4	NS	ug/L	12.44		10.72		832.2		-	-	534.6		-	-	538.1		-	-	22.21	
Copper, Total	7440-50-8	200	ug/L	15.74		17.75		10300		-	-	2183		-	-	1811		-	-	74.79	
Iron, Total	7439-89-6	300	ug/L	2630		5150		666000		-	-	455000		-	-	413000		-	-	41900	
Lead, Total	7439-92-1	25	ug/L	316.1		243.6		1145		-	-	4517		-	-	734.6		-	-	84.43	
Magnesium, Total	7439-95-4	35000	ug/L	28900		25400		472000		-	-	842000		-	-	590000		-	-	56000	
Manganese, Total	7439-96-5	300	ug/L	1780		1736		24620		-	-	22890		-	-	33320		-	-	2058	
Mercury, Total	7439-97-6	0.7	ug/L	0.2	U	0.2	U	0.51		-	-	1.25		-	-	0.66		-	-	0.2	U
Nickel, Total	7440-02-0	100	ug/L	8.8		8.02		1468		-	-	930.8		-	-	898.7		-	-	39.94	
Potassium, Total	7440-09-7	NS	ug/L	19500		17400		138000		-	-	175000		-	-	124000		-	-	13900	
Selenium, Total	7782-49-2	10	ug/L	3.75	J	2.97	J	56.7		-	-	63.8		-	-	40		-	-	3.41	J
Silver, Total	7440-22-4	50	ug/L	0.4	U	0.4	U	8.12		-	-	2.39		-	-	2.3		-	-	0.4	U
Sodium, Total	7440-23-5	20000	ug/L	615000		585000		1440000		-	-	175000		-	-	98200		-	-	108000	
Thallium, Total	7440-28-0	0.5	ug/L	1	U	1	U	10.36		-	-	6.11		-	-	6.08		-	-	0.47	J
Vanadium, Total	7440-62-2	NS	ug/L	2.52	J	2.37	J	527.2		-	-	526		-	-	501.2		-	-	70.11	
Zinc, Total	7440-66-6	2000	ug/L	171.7		138.2		3883		-	-	3338		-	-	2018		-	-	173	

NOTES:

1. All results measured in ug/L

Concentration Exceeds NY AWQS

"-" = Not Analyzed

"NS" = No Applicable Standard

"U" = Not Detected

"J" = Estimated Concentration

NY-AWQS: New York TOGS 111 Ambient Water Quality Standards & Guidance Values Criteria per Standards & Guidance Values including all addenda through February 2023.

SESI
CONSULTING ENGINEERS

REMEDIAL INVESTIGATION REPORT

TABLE 5.16
SUMMARY OF GROUNDWATER SAMPLING RESULTS—METALs

26-28, 40, 60 East Post Road
223-225 Dr. MLK Jr. Blvd.
and Brookfield Street
White Plains, NY

Sample ID:	CAS	NY-AWQS	Units	FIELD BLANK		FIELD BLANK		FIELD BLANK		TW-7		TW-8		FIELD BLANK		TW-9		TW-10		TW-11	
Sample Date:				8/11/2025		8/12/2025		8/13/2025		8/14/2025		8/14/2025		8/14/2025		9/5/2025		9/5/2025		9/5/2025	
Lab ID:				L2550303-30		L2550665-22		L2551039-01		L2551402-01		L2551402-02		L2551402-03		JE18488-13		JE18488-14		JE18488-15	
				Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Total Metals																					
Aluminum, Total	7429-90-5	NS	ug/L	100	U	100	U	100	U	32200		24200		9.16	J	86100		28200		35100	
Antimony, Total	7440-36-0	3	ug/L	50	U	50	U	50	U	4	U	0.42	J	4	U	10	U	6.0	U	6.0	U
Arsenic, Total	7440-38-2	25	ug/L	5	U	5	U	5	U	15.14		10.73		0.5	U	10	U	15	U	15	U
Barium, Total	7440-39-3	1000	ug/L	10	U	10	U	10	U	1440		925.4		0.31	J	1390		924		1410	
Beryllium, Total	7440-41-7	3	ug/L	5	U	5	U	5	U	5.12		1.51		0.5	U	2.7		1.9		2	
Cadmium, Total	7440-43-9	5	ug/L	5	U	5	U	5	U	1.91		1.03		0.2	U	5.0	U	15	U	15	U
Calcium, Total	7440-70-2	NS	ug/L	100	U	100	U	100	U	594000		237000		57.6	J	420000		521000		566000	
Chromium, Total	7440-47-3	50	ug/L	10	U	10	U	10	U	94.63		92.23		1	U	188		166		82.8	
Cobalt, Total	7440-48-4	NS	ug/L	20	U	20	U	20	U	56.6		46.86		0.5	U	92.8		52.9		88.6	
Copper, Total	7440-50-8	200	ug/L	10	U	10	U	10	U	43.46		118		1	U	208		232		222	
Iron, Total	7439-89-6	300	ug/L	50	U	50	U	50	U	89400		39700		50	U	139000		72000		48200	
Lead, Total	7439-92-1	25	ug/L	10	U	10	U	10	U	520.9		68.91		1	U	70.7		57.6		201	
Magnesium, Total	7439-95-4	35000	ug/L	100	U	100	U	100	U	83400		37300		70	U	135000		113000		149000	
Manganese, Total	7439-96-5	300	ug/L	10	U	10	U	10	U	4131		7130		0.9	J	3420		2430		4960	
Mercury, Total	7439-97-6	0.7	ug/L	0.2	U	0.2	U	0.2	U	0.12	J	0.2	U	0.2	U	1.2 U		1.2	U	1.2	U
Nickel, Total	7440-02-0	100	ug/L	25	U	25	U	25	U	90.31		52.07		2	U	150		77.5		90.4	
Potassium, Total	7440-09-7	NS	ug/L	2500	U	2500	U	2500	U	29200		17200		100	U	37400		15800		26600	
Selenium, Total	7782-49-2	10	ug/L	10	U	10	U	10	U	65.9		42		5	U	17	U	10	U	10	U
Silver, Total	7440-22-4	50	ug/L	7	U	7	U	7	U	0.4	U	0.18	J	0.4	U	17	U	10	U	10 U	
Sodium, Total	7440-23-5	20000	ug/L	2000	U	2000	U	2000	U	169000		137000		301	J	28300		40900		28900	
Thallium, Total	7440-28-0	0.5	ug/L	20	U	20	U	20	U	0.64	J	0.38	J	1	U	17	U	10	U	10	U
Vanadium, Total	7440-62-2	NS	ug/L	10	U	10	U	10	U	129.6		58.73		5	U	211		56.1		89.5	
Zinc, Total	7440-66-6	2000	ug/L	50	U	50	U	50	U	510.5		141.7		10	U	393		255		244	

NOTES:

1. All results measured in ug/L

Concentration Exceeds NY AWQS

"-" = Not Analyzed

"NS" = No Applicable Standard

"U" = Not Detected

"J" = Estimated Concentration

NY-AWQS: New York TOGS 111 Ambient Water Quality Standards & Guidance Values Criteria per Standards & Guidance Value

TABLE 5.16
SUMMARY OF GROUNDWATER SAMPLING RESULTS—METALs

Sample ID:	CAS	NY-AWQS	Units	TW-12		TW-13		TW-14		TW-15		TW-16		TW-17		TW-18	
Sample Date:				9/8/2025		9/8/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/10/2025	
Lab ID:				JE18629-10		JE18629-11		JE18698-20		JE18698-21		JE18698-22		JE18698-23		JE18798-1	
				Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Total Metals																	
Aluminum, Total	7429-90-5	NS	ug/L	6440		164000		653000		117000		413000		172000		88100	
Antimony, Total	7440-36-0	3	ug/L	6.0	U	6.0	U	60	U	12	U	30	U	30	U	12	U
Arsenic, Total	7440-38-2	25	ug/L	3.9		41		211		37		77.9		26.6		16.2	
Barium, Total	7440-39-3	1000	ug/L	200	U	1780		5490		1730		4470		2050		927	
Beryllium, Total	7440-41-7	3	ug/L	1.0	U	3.5		28.7		6.3		22		10.7		4.2	
Cadmium, Total	7440-43-9	5	ug/L	3.0	U	15	U	30	U	3.0	U	15	U	15	U	3.0	U
Calcium, Total	7440-70-2	NS	ug/L	135000		447000		1740000		165000		864000		355000		142000	
Chromium, Total	7440-47-3	50	ug/L	18.4		432		1260		238		1010		431		189	
Cobalt, Total	7440-48-4	NS	ug/L	50	U	218		541		144		484		171		68.9	
Copper, Total	7440-50-8	200	ug/L	35.4		875		1850		636		2450		571		188	
Iron, Total	7439-89-6	300	ug/L	6920		446000		1200000		215000		717000		277000		132000	
Lead, Total	7439-92-1	25	ug/L	454		149		2430		374		300		119		49.1	
Magnesium, Total	7439-95-4	35000	ug/L	25300		147000		852000		86400		409000		183000		85900	
Manganese, Total	7439-96-5	300	ug/L	509		5110		34600		6500		57000		11200		2430	
Mercury, Total	7439-97-6	0.7	ug/L	0.20	U	1.2	U	8.3		1.2	U	1.2	U	1.2	U	1.2	U
Nickel, Total	7440-02-0	100	ug/L	12.7		295		1230		246		939		326		132	
Potassium, Total	7440-09-7	NS	ug/L	11300		51300		129000		39200		116000		54800		32800	
Selenium, Total	7782-49-2	10	ug/L	10	U	50	U	100	U	20	U	50	U	50	U	10	U
Silver, Total	7440-22-4	50	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Sodium, Total	7440-23-5	20000	ug/L	60600		122000		129000		167000		480000		403000		35600	
Thallium, Total	7440-28-0	0.5	ug/L	10	U	50	U	100	U	20	U	50	U	50	U	10	U
Vanadium, Total	7440-62-2	NS	ug/L	50	U	608		1440		341		914		400		219	
Zinc, Total	7440-66-6	2000	ug/L	253		773		2620		770		1350		672		369	

NOTES:

1. All results measured in ug/L
Concentration Exceeds NY AWQS
"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
NY-AWQS: New York TOGS 111 Ambient Water Quality Standards & Guidance Values Criteria per Standards & Guidance Value

SESI
CONSULTING ENGINEERS

REMEDIAL INVESTIGATION REPORT

TABLE 5.17
SUMMARY OF GROUNDWATER SAMPLING RESULTS—PCBs

26-28, 40, 60 East Post Road
223-225 Dr. MLK Jr. Blvd.
and Brookfield Street
White Plains, NY

Sample ID:	**CAS**	**NY-AWQS**	**Units**	TW-1		TW-2		TW-3		TRIP BLANK		TW-5		TW-4		TW-6		TRIP BLANK		TW-4	
Sample Date:				7/10/2025		7/10/2025		7/29/2025		7/31/2025		7/31/2025		7/31/2025		8/1/2025		8/1/2025		8/1/2025	
Lab ID:				L2543250-05		L2543250-06		L2547611-02		L2548309-08		L2548309-10		L2548309-11		L2548397-03		L2548397-04		L2548398-01	
				Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Polychlorinated Biphenyls by GC																					
Aroclor 1016	12674-11-2	0.09	ug/L	0.071	U	0.071	U	-	-	-	-	0.089	U	-	-	-	-	-	-	0.071	U
Aroclor 1221	11104-28-2	0.09	ug/L	0.071	U	0.071	U	-	-	-	-	0.089	U	-	-	-	-	-	-	0.071	U
Aroclor 1232	11141-16-5	0.09	ug/L	0.071	U	0.071	U	-	-	-	-	0.089	U	-	-	-	-	-	-	0.071	U
Aroclor 1242	53469-21-9	0.09	ug/L	0.071	U	0.071	U	-	-	-	-	0.089	U	-	-	-	-	-	-	0.071	U
Aroclor 1248	12672-29-6	0.09	ug/L	0.071	U	0.071	U	-	-	-	-	0.089	U	-	-	-	-	-	-	0.071	U
Aroclor 1254	11097-69-1	0.09	ug/L	0.071	U	0.071	U	-	-	-	-	0.089	U	-	-	-	-	-	-	0.071	U
Aroclor 1260	11096-82-5	0.09	ug/L	0.071	U	0.071	U	-	-	-	-	0.054	J	-	-	-	-	-	-	0.069	J
Aroclor 1262	37324-23-5	0.09	ug/L	0.071	U	0.071	U	-	-	-	-	0.089	U	-	-	-	-	-	-	0.071	U
Aroclor 1268	11100-14-4	0.09	ug/L	0.071	U	0.071	U	-	-	-	-	0.089	U	-	-	-	-	-	-	0.071	U
PCBs, Total	1336-36-3	NS	ug/L	0.071	U	0.071	U	-	-	-	-	0.054	J	-	-	-	-	-	-	0.069	J

NOTES:

1. All results measured in ug/L

Concentration Exceeds NY AWQS and/or NY-TOGS-GA

"-" = Not Analyzed

"NS" = No Applicable Standard

"U" = Not Detected

"J" = Estimated Concentration

NY-AWQS: New York TOGS 111 Ambient Water Quality Standards & Guidance Values Criteria per Standards & Guidance Values including all addenda through February 2023.

TABLE 5.17
SUMMARY OF GROUNDWATER SAMPLING RESULTS—PCBs

Sample ID:	CAS	NY-AWQS	Units	FIELD BLANK		FIELD BLANK		FIELD BLANK		TW-7		TW-8		FIELD BLANK		TW-9		TW-10		TW-11	
Sample Date:				8/11/2025		8/12/2025		8/13/2025		8/14/2025		8/14/2025		8/14/2025		9/5/2025		9/5/2025		9/5/2025	
Lab ID:				L2550303-30		L2550665-22		L2551039-01		L2551402-01		L2551402-02		L2551402-03		JE18488-13		JE18488-14		JE18488-15	
				Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Polychlorinated Biphenyls by GC																					
Aroclor 1016	12674-11-2	0.09	ug/L	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U	0.25	U	0.25	U	0.25	U
Aroclor 1221	11104-28-2	0.09	ug/L	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U	0.25	U	0.25	U	0.25	U
Aroclor 1232	11141-16-5	0.09	ug/L	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U	0.25	U	0.25	U	0.25	U
Aroclor 1242	53469-21-9	0.09	ug/L	0.058	J	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U	0.25	U	0.25	U	0.25	U
Aroclor 1248	12672-29-6	0.09	ug/L	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U	0.25	U	0.25	U	0.25	U
Aroclor 1254	11097-69-1	0.09	ug/L	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U	0.25	U	0.25	U	0.25	U
Aroclor 1260	11096-82-5	0.09	ug/L	0.071	U	0.071	U	0.071	U	0.238		0.032	JIP	0.071	U	0.25	U	0.25	U	0.25	U
Aroclor 1262	37324-23-5	0.09	ug/L	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U	0.25	U	0.25	U	0.25	U
Aroclor 1268	11100-14-4	0.09	ug/L	0.071	U	0.071	U	0.071	U	0.062	J	0.071	U	0.071	U	0.25	U	0.25	U	0.25	U
PCBs, Total	1336-36-3	NS	ug/L	0.058	J	0.071	U	0.071	U	0.3	J	0.032	J	0.071	U	-	-	-	-	-	-

NOTES:

1. All results measured in ug/L

Concentration Exceeds NY AWQS and/or NY-TOGS-GA

"-" = Not Analyzed

"NS" = No Applicable Standard

"U" = Not Detected

"J" = Estimated Concentration

NY-AWQS: New York TOGS 111 Ambient Water Quality Standards & Guidance Values Criteria per Standards & Guidance Values i

TABLE 5.17
SUMMARY OF GROUNDWATER SAMPLING RESULTS—PCBs

Sample ID:	CAS	NY-AWQS	Units	TW-12		TW-13		TW-14		TW-15		TW-16		TW-17		TW-18	
Sample Date:				9/8/2025		9/8/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/10/2025	
Lab ID:				JE18629-10		JE18629-11		JE18698-20		JE18698-21		JE18698-22		JE18698-23		JE18798-1	
				Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Polychlorinated Biphenyls by GC																	
Aroclor 1016	12674-11-2	0.09	ug/L	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
Aroclor 1221	11104-28-2	0.09	ug/L	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
Aroclor 1232	11141-16-5	0.09	ug/L	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
Aroclor 1242	53469-21-9	0.09	ug/L	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
Aroclor 1248	12672-29-6	0.09	ug/L	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
Aroclor 1254	11097-69-1	0.09	ug/L	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
Aroclor 1260	11096-82-5	0.09	ug/L	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
Aroclor 1262	37324-23-5	0.09	ug/L	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
Aroclor 1268	11100-14-4	0.09	ug/L	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
PCBs, Total	1336-36-3	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-

NOTES:
1. All results measured in ug/L
Concentration Exceeds NY AWQS and/or NY-TOGS-GA
"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
NY-AWQS: New York TOGS 111 Ambient Water Quality Standards & Guidance Values Criteria per Standards & Guidance Values i

SESI
CONSULTING ENGINEERS

REMEDIAL INVESTIGATION REPORT

TABLE 5.1
SUMMARY OF GROUNDWATER SAMPLING RESULTS—PFAS

26-28, 40, 60 East Post Road
223-225 Dr. MLK Jr. Blvd.
and Brookfield Street
White Plains, NY

Sample ID:	CAS	NY-AWQGV	Units	TW-1		TW-2		TW-3		TRIP BLANK		TW-5		TW-4		TW-6		TRIP BLANK		TW-4		FIELD BLANK	
Sample Date:				7/10/2025		7/10/2025		7/29/2025		7/31/2025		7/31/2025		7/31/2025		8/1/2025		8/1/2025		8/1/2025		8/11/2025	
Lab ID:				L2543250-05		L2543250-06		L2547611-02		L2548309-08		L2548309-10		L2548309-11		L2548397-03		L2548397-04		L2548398-01		L2550303-30	
				Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Perfluorinated Alkyl Acids by EPA 1633																							
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	763051-92-9	NS	ug/L	0.00601	U	0.00591	U	0.32	U	-	-	3.2	U	1.28	U	0.00651	U	-	-	0.00569	U	0.00616	U
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	NS	ug/L	0.00601	U	0.00591	U	0.32	U	-	-	3.2	U	1.28	U	0.00651	U	-	-	0.00569	U	0.00616	U
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	757124-72-4	NS	ug/L	0.00601	U	0.00591	U	0.32	U	-	-	3.2	U	1.28	U	0.00651	U	-	-	0.00569	U	0.00616	U
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	NS	ug/L	0.00601	U	0.00591	U	0.32	U	-	-	3.2	U	1.28	U	0.00651	U	-	-	0.00569	U	0.00616	U
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	914637-49-3	NS	ug/L	0.0376	U	0.0369	U	2	U	-	-	20	U	8	U	0.0407	U	-	-	0.0356	U	0.0385	U
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	812-70-4	NS	ug/L	0.0376	U	0.0369	U	2	U	-	-	20	U	8	U	0.0407	U	-	-	0.0356	U	0.0385	U
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	356-02-5	NS	ug/L	0.00751	U	0.00738	U	0.4	U	-	-	4	U	0.08	U	0.00814	U	-	-	0.00711	U	0.0077	U
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	919005-14-4	NS	ug/L	0.00601	U	0.00591	U	0.32	U	-	-	3.2	U	1.28	U	0.00651	U	-	-	0.00569	U	0.00616	U
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	756426-58-1	NS	ug/L	0.00601	U	0.00591	U	0.32	U	-	-	3.2	U	1.28	U	0.00651	U	-	-	0.00569	U	0.00616	U
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	13252-13-6	NS	ug/L	0.00601	U	0.00591	U	0.32	U	-	-	3.2	U	0.064	U	0.00651	U	-	-	0.00569	U	0.00616	U
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	4151-50-2	NS	ug/L	0.0015	U	0.00148	U	0.08	U	-	-	0.8	U	0.32	U	0.00163	U	-	-	0.00142	U	0.00154	U
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	1691-99-2	NS	ug/L	0.015	U	0.0148	U	0.8	U	-	-	8	U	3.2	U	0.0163	U	-	-	0.0142	U	0.0154	U
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	NS	ug/L	0.0015	U	0.00148	U	0.08	U	-	-	0.8	U	0.32	U	0.00163	U	-	-	0.00142	U	0.00154	U
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	31506-32-8	NS	ug/L	0.0015	U	0.00148	U	0.08	U	-	-	0.8	U	0.32	U	0.00163	U	-	-	0.00142	U	0.00154	U
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	24448-09-7	NS	ug/L	0.015	U	0.0148	U	0.8	U	-	-	8	U	3.2	U	0.0163	U	-	-	0.0142	U	0.0154	U
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	NS	ug/L	0.0015	U	0.00148	U	0.08	U	-	-	1.6	U	0.32	U	0.00163	U	-	-	0.00142	U	0.00154	U
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	151772-58-6	NS	ug/L	0.003	U	0.00295	U	0.16	U	-	-	1.6	U	0.64	U	0.00326	U	-	-	0.00284	U	0.00308	U
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	113507-82-7	NS	ug/L	0.003	U	0.00295	U	0.16	U	-	-	1.6	U	0.64	U	0.00326	U	-	-	0.00284	U	0.00308	U
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	377-73-1	NS	ug/L	0.003	U	0.00295	U	-	-	-	-	1.6	U	0.032	U	0.00326	U	-	-	0.00284	U	0.00308	U
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	863090-89-5	NS	ug/L	0.003	U	0.00295	U	0.16	U	-	-	1.6	U	0.032	U	0.00326	U	-	-	0.00284	U	0.00308	U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	ug/L	0.0148		0.00499		0.08	U	-	-	0.8	U	0.32	U	0.00532		-	-	0.00474		0.00154	U
Perfluorobutanoic Acid (PFBA)	375-22-4	NS	ug/L	0.0282		0.0127		0.32	U	-	-	3.2	U	0.0168	J	0.0112		-	-	0.0284	U	0.00616	U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	ug/L	0.0015	U	0.00148	U	0.08	U	-	-	0.8	U	0.32	U	0.00163	U	-	-	0.00142	U	0.00154	U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	ug/L	0.00294		0.000849	J	0.08	U	-	-	0.8	U	0.32	U	0.00146	J	-	-	0.000931	J	0.00154	U
Perfluorododecanesulfonic Acid (PFDoS)	79780-39-5	NS	ug/L	0.0015	U	0.00148	U	0.08	U	-	-	0.8	U	0.32	U	0.00163	U	-	-	0.00142	U	0.00154	U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	ug/L	0.0015	U	0.00148	U	0.08	U	-	-	0.8	U	0.32	U	0.00163	U	-	-	0.00142	U	0.00154	U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	ug/L	0.000473	J	0.00148	U	0.08	U	-	-	0.8	U	0.32	U	0.00144	J	-	-	0.000292	J	0.00154	U
Perfluoroheptanoic Acid (PFHpA)	375-85-9	NS	ug/L	0.0287		0.00424		0.08	U	-	-	0.8	U	0.32	U	0.00534		-	-	0.00456		0.00154	U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	ug/L	0.0101		0.00245		0.08	U	-	-	0.8	U	0.32	U	0.00765	JF	-	-	0.00223		0.00154	U
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	ug/L	0.0359		0.0119		0.0288	J	-	-	0.8	U	0.32	U	0.0062		-	-	0.0113		0.00154	U
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	NS	ug/L	0.0015	U	0.00148	U	0.08	U	-	-	0.8	U	0.32	U	0.00163	U	-	-	0.00142	U	0.00154	U
Perfluorononanoic Acid (PFNA)	375-95-1	NS	ug/L	0.00446		0.00159		0.08	U	-	-	0.8	U	0.32	U	0.00208		-	-	0.0022		0.00154	U
Perfluorooctanesulfonamide (PFOSA)	754-91-6	NS	ug/L	0.0015	U	0.00148	U	0.08	U	-	-	0.8	U	0.32	U	0.000439	JF	-	-	0.00142	U	0.00154	U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	0.0027	ug/L	0.0192		0.0121		0.0216	J	-	-	0.8	U	0.32	U	0.0892		-	-	0.0204		0.000262	J
Perfluorooctanoic Acid (PFOA)	335-67-1	0.0067	ug/L	0.0673		0.0158		0.0232	J	-	-	0.14	J	0.32	U	0.0201		-	-	0.0146		0.00154	U
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	NS	ug/L	0.00233		0.000738	JF	0.08	U	-	-	0.8	U	0.32	U	0.00163	U	-	-	0.000569	J	0.00154	U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	ug/L	0.0442		0.0134		0.026	J	-	-	0.22	J	0.00992	J	0.00874		-	-	0.0145		0.00308	U
Perfluorotetradecanoic Acid (PFTeDA)	376-06-7	NS	ug/L	0.0015	U	0.00148	U	0.08	U	-	-	0.8	U	0.32	U	0.00163	U	-	-	0.00142	U	0.00154	U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	ug/L	0.0015	U	0.00148	U	0.08	U	-	-	0.8	U	0.32	U	0.00163	U	-	-	0.00142	U	0.00154	U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	ug/L	0.0015	U	0.00148	U	0.08	U	-	-	0.8	U	0.32	U	0.000228	JF	-	-	0.00142	U	0.00154	U
PFOA/PFOS, Total		NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

NOTES:

1. All results measured in ug/L
Concentration Exceeds NY AWQGV
"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
NY-AWQGV: New York TOGS 111 Ambient Water Quality Standards & Guidance Values Criteria per Standards & Guidance Values including all addenda through April 2023

SESI
CONSULTING ENGINEERS

REMEDIAL INVESTIGATION REPORT

TABLE 5.1
SUMMARY OF GROUNDWATER SAMPLING RESULTS—PFAS

26-28, 40, 60 East Post Road
223-225 Dr. MLK Jr. Blvd.
and Brookfield Street
White Plains, NY

Sample ID:	CAS	NY-AWQGV	Units	FIELD BLANK		FIELD BLANK		TW-7		TW-8		FIELD BLANK		TW-9		TW-10		TW-11	
Sample Date:				8/12/2025		8/13/2025		8/14/2025		8/14/2025		8/14/2025		9/5/2025		9/5/2025		9/5/2025	
Lab ID:				L2550665-22		L2551039-01		L2551402-01		L2551402-02		L2551402-03		JE18488-13		JE18488-14		JE18488-15	
				Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Perfluorinated Alkyl Acids by EPA 1633																			
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	763051-92-9	NS	ug/L	0.00566	U	0.00576	U	-	-	-	-	-	-	-	-	-	-	-	-
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	NS	ug/L	0.00566	U	0.00576	U	0.032	U	0.032	U	0.00575	U	-	-	-	-	-	-
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	757124-72-4	NS	ug/L	0.00566	U	0.00576	U	-	-	-	-	-	-	-	-	-	-	-	-
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	NS	ug/L	0.00566	U	0.00576	U	0.032	U	0.032	U	0.00575	U	-	-	-	-	-	-
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	914637-49-3	NS	ug/L	0.0354	U	0.036	U	-	-	-	-	-	-	-	-	-	-	-	-
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	812-70-4	NS	ug/L	0.0354	U	0.036	U	-	-	-	-	-	-	-	-	-	-	-	-
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	356-02-5	NS	ug/L	0.00708	U	0.0072	U	-	-	-	-	-	-	-	-	-	-	-	-
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	919005-14-4	NS	ug/L	0.00566	U	0.00576	U	-	-	-	-	-	-	-	-	-	-	-	-
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	756426-58-1	NS	ug/L	0.00566	U	0.00576	U	-	-	-	-	-	-	-	-	-	-	-	-
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	13252-13-6	NS	ug/L	0.00566	U	0.00576	U	-	-	-	-	-	-	-	-	-	-	-	-
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	4151-50-2	NS	ug/L	0.00142	U	0.00144	U	-	-	-	-	-	-	-	-	-	-	-	-
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	1691-99-2	NS	ug/L	0.0142	U	0.0144	U	-	-	-	-	-	-	-	-	-	-	-	-
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	NS	ug/L	0.00142	U	0.00144	U	0.008	U	0.008	U	0.00144	U	-	-	-	-	-	-
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	31506-32-8	NS	ug/L	0.00142	U	0.00144	U	-	-	-	-	-	-	-	-	-	-	-	-
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	24448-09-7	NS	ug/L	0.0142	U	0.0144	U	-	-	-	-	-	-	-	-	-	-	-	-
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	NS	ug/L	0.00142	U	0.00144	U	0.008	U	0.008	U	0.00144	U	-	-	-	-	-	-
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	151772-58-6	NS	ug/L	0.00283	U	0.00288	U	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	113507-82-7	NS	ug/L	0.00283	U	0.00288	U	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	377-73-1	NS	ug/L	0.00283	U	0.00288	U	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	863090-89-5	NS	ug/L	0.00283	U	0.00288	U	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	ug/L	0.00142	U	0.00144	U	0.00416	J	0.00304	J	0.00144	U	-	-	-	-	-	-
Perfluorobutanoic Acid (PFBA)	375-22-4	NS	ug/L	0.00566	U	0.00576	U	0.0114	J	0.00892	J	0.00575	U	-	-	-	-	-	-
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	ug/L	0.00142	U	0.00144	U	0.008	U	0.008	U	0.00144	U	-	-	-	-	-	-
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	ug/L	0.00142	U	0.00144	U	0.00136	J	0.008	U	0.00144	U	-	-	-	-	-	-
Perfluorododecanesulfonic Acid (PFDoS)	79780-39-5	NS	ug/L	0.00142	U	0.00144	U	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	ug/L	0.00142	U	0.00144	U	0.008	U	0.008	U	0.00144	U	-	-	-	-	-	-
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	ug/L	0.00142	U	0.00144	U	0.008	U	0.008	U	0.00144	U	-	-	-	-	-	-
Perfluoroheptanoic Acid (PFHpA)	375-85-9	NS	ug/L	0.00142	U	0.00144	U	0.00376	J	0.00336	J	0.00144	U	-	-	-	-	-	-
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	ug/L	0.00142	U	0.00144	U	0.00436	J	0.00348	J	0.00144	U	-	-	-	-	-	-
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	ug/L	0.00142	U	0.00144	U	0.00532	J	0.00508	J	0.00144	U	-	-	-	-	-	-
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	NS	ug/L	0.00142	U	0.00144	U	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorononanoic Acid (PFNA)	375-95-1	NS	ug/L	0.00142	U	0.00144	U	0.00256	J	0.00632	J	0.00144	U	-	-	-	-	-	-
Perfluorooctanesulfonamide (PFOSA)	754-91-6	NS	ug/L	0.00142	U	0.00144	U	0.008	U	0.008	U	0.00144	U	-	-	-	-	-	-
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	0.0027	ug/L	0.00142	U	0.00144	U	0.0256		0.0197		0.000266	J	-	-	-	-	-	-
Perfluorooctanoic Acid (PFOA)	335-67-1	0.0067	ug/L	0.00142	U	0.00144	U	0.00976		0.0181		0.00144	U	-	-	-	-	-	-
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	NS	ug/L	0.00142	U	0.00144	U	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	ug/L	0.00283	U	0.00288	U	0.00576	J	0.00848	J	0.00287	U	-	-	-	-	-	-
Perfluorotetradecanoic Acid (PFTeDA)	376-06-7	NS	ug/L	0.00142	U	0.00144	U	0.008	U	0.008	U	0.00144	U	-	-	-	-	-	-
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	ug/L	0.00142	U	0.00144	U	0.008	U	0.008	U	0.00144	U	-	-	-	-	-	-
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	ug/L	0.00142	U	0.00144	U	0.008	U	0.008	U	0.00144	U	-	-	-	-	-	-
PFOA/PFOS, Total		NS	ug/L	-	-	-	-	0.0354		0.0378		0.000266	J	-	-	-	-	-	-

NOTES:

1. All results measured in ug/L
Concentration Exceeds NY AWQGV
"-" = Not Analyzed
"NS" = No Applicable Standard
"U" = Not Detected
"J" = Estimated Concentration
NY-AWQGV: New York TOGS 111 Ambient Water Quality Standards & Guidance Values Criteria per Standards & Guidance Value

SESI
CONSULTING ENGINEERS

REMEDIAL INVESTIGATION REPORT

TABLE 5.1
SUMMARY OF GROUNDWATER SAMPLING RESULTS—PFAS

26-28, 40, 60 East Post Road
223-225 Dr. MLK Jr. Blvd.
and Brookfield Street
White Plains, NY

Sample ID:	CAS	NY-AWQGV	Units	TW-12		TW-13		TW-14		TW-15		TW-16		TW-17		TW-18	
Sample Date:				9/8/2025		9/8/2025		9/9/2025		9/9/2025		9/9/2025		9/9/2025		9/10/2025	
Lab ID:				JE18629-10		JE18629-11		JE18698-20		JE18698-21		JE18698-22		JE18698-23		JE18798-1	
				Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Perfluorinated Alkyl Acids by EPA 1633																	
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	763051-92-9	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	757124-72-4	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	914637-49-3	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	812-70-4	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	356-02-5	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	919005-14-4	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	756426-58-1	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	13252-13-6	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	4151-50-2	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	1691-99-2	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	31506-32-8	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	24448-09-7	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	151772-58-6	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	113507-82-7	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	377-73-1	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	863090-89-5	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorobutanoic Acid (PFBA)	375-22-4	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorododecanesulfonic Acid (PFDoS)	79780-39-5	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoroheptanoic Acid (PFHpA)	375-85-9	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorononanoic Acid (PFNA)	375-95-1	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorooctanesulfonamide (PFOSA)	754-91-6	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	0.0027	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorooctanoic Acid (PFOA)	335-67-1	0.0067	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorotetradecanoic Acid (PFTeDA)	376-06-7	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PFOA/PFOS, Total		NS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-

NOTES:

1. All results measured in ug/L

Concentration Exceeds NY AWQGV

"-" = Not Analyzed

"NS" = No Applicable Standard

"U" = Not Detected

"J" = Estimated Concentration

NY-AWQGV: New York TOGS 111 Ambient Water Quality Standards & Guidance Values Criteria per Standards & Guidance Value

SESI
CONSULTING ENGINEERS

REMEDIAL INVESTIGATION REPORT

TABLE 5.24
SUMMARY OF SOIL VAPOR RESULTS

26-28, 40, 60 East Post Road
223-225 Dr. MLK Jr. Blvd.
and Brookfield Street
White Plains, NY

Sample ID:	CAS	NY-SSC-A-F	SV-1		SV-2		SV-3		SV-4		SV-5		SV-6		SV-7	
Sample Date:			7/25/2025		7/25/2025		7/25/2025		7/25/2025		8/1/2025		8/15/2025		8/15/2025	
Lab ID:			L2546945-01		L2546945-02		L2546945-03		L2546945-04		L2548401-01		L2551761-01		L2551761-02	
			Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Volatile Organics in Air																
1,1,1-Trichloroethane	71-55-6	100	1.09	U	1.09	U	1.09	U	1.09	U	9110	U	1.09	U	1.09	U
1,1,2,2-Tetrachloroethane	79-34-5	NS	1.37	U	1.37	U	1.37	U	1.37	U	11500	U	1.37	U	1.37	U
1,1,2-Trichloroethane	79-00-5	NS	1.09	U	1.09	U	1.09	U	1.09	U	9110	U	1.09	U	1.09	U
1,1-Dichloroethane	75-34-3	NS	0.809	U	0.809	U	0.809	U	0.809	U	6760	U	0.809	U	0.809	U
1,1-Dichloroethene	75-35-4	6	0.793	U	0.793	U	0.793	U	0.793	U	6620	U	0.793	U	0.793	U
1,2,4-Trichlorobenzene	120-82-1	NS	1.48	U	1.48	U	1.48	U	1.48	U	12400	U	1.48	U	1.48	U
1,2,4-Trimethylbenzene	95-63-6	60	9.19		11.1		4.18		13.3		8210	U	0.983	U	2.26	
1,2-Dibromoethane	106-93-4	NS	1.54	U	1.54	U	1.54	U	1.54	U	12800	U	1.54	U	1.54	U
1,2-Dichlorobenzene	95-50-1	NS	1.2	U	1.2	U	1.2	U	1.2	U	10000	U	1.2	U	1.2	U
1,2-Dichloroethane	107-06-2	NS	0.809	U	0.809	U	0.809	U	0.809	U	6760	U	0.809	U	0.809	U
1,2-Dichloropropane	78-87-5	NS	0.924	U	0.924	U	0.924	U	0.924	U	7720	U	0.924	U	0.924	U
1,3,5-Trimethylbenzene	108-67-8	60	2.82		3.45		1.34		4.09		8210	U	0.983	U	0.983	U
1,3-Butadiene	106-99-0	NS	0.442	U	0.442	U	0.442	U	0.442	U	3690	U	0.442	U	0.442	U
1,3-Dichlorobenzene	541-73-1	NS	1.2	U	1.2	U	1.2	U	1.2	U	10000	U	1.2	U	1.2	U
1,4-Dichlorobenzene	106-46-7	NS	1.2	U	1.2	U	1.2	U	1.2	U	10000	U	1.2	U	1.2	U
1,4-Dioxane	123-91-1	NS	0.721	U	25.7		6.13		0.721	U	6020	U	0.764		0.721	U
2,2,4-Trimethylpentane	540-84-1	60	3.07		1.66		37.6		3.09		1070000		0.934	U	3.81	
2-Butanone	78-93-3	NS	6.9		22		11.1		16.3		12300	U	1.86		2.54	
2-Hexanone	591-78-6	NS	0.82	U	3.14		0.82	U	2.48		6840	U	1.35		1.31	
3-Chloropropene	107-05-1	NS	0.626	U	0.626	U	0.626	U	0.626	U	5230	U	0.626	U	0.626	U
4-Ethyltoluene	622-96-8	NS	2.51		2.95		0.983	U	2.93		8210	U	0.983	U	0.983	U
4-Methyl-2-pentanone	108-10-1	NS	2.05	U	6.35		2.05	U	3.95		17100	U	2.05	U	2.95	
Acetone	67-64-1	NS	257		917		330		416		19800	U	17.6		17.6	
Benzene	71-43-2	60	2.85		1.91		4.28		1.77		37400		0.978		6.55	
Benzyl chloride	100-44-7	NS	1.04	U	1.04	U	1.04	U	1.04	U	8650	U	1.04	U	1.04	U
Bromodichloromethane	75-27-4	NS	1.34	U	1.34	U	1.34	U	1.34	U	11200	U	1.34	U	1.34	U
Bromoform	75-25-2	NS	2.07	U	2.07	U	2.07	U	2.07	U	17300	U	2.07	U	2.07	U
Bromomethane	74-83-9	NS	0.777	U	0.777	U	0.777	U	0.777	U	6480	U	0.777	U	0.777	U
Carbon disulfide	75-15-0	NS	2.66		0.623	U	0.835		8.38		5200	U	5.23		125	
Carbon tetrachloride	56-23-5	6	1.26	U	1.26	U	1.26	U	1.26	U	10500	U	1.26	U	1.26	U
Chlorobenzene	108-90-7	NS	0.921	U	0.921	U	0.921	U	0.921	U	7690	U	0.921	U	0.921	U
Chloroethane	75-00-3	NS	0.528	U	0.528	U	0.528	U	0.528	U	4410	U	0.821		0.528	U
Chloroform	67-66-3	NS	5.86		0.977	U	0.977	U	18.5		8160	U	1.9		2.69	
Chloromethane	74-87-3	NS	0.413	U	0.413	U	1.33		1.25		3450	U	0.413	U	1.93	
cis-1,2-Dichloroethene	156-59-2	6	0.793	U	0.793	U	0.793	U	0.793	U	6620	U	0.793	U	0.793	U
cis-1,3-Dichloropropene	10061-01-5	NS	0.908	U	0.908	U	0.908	U	0.908	U	7580	U	0.908	U	0.908	U
Cyclohexane	110-82-7	60	1.82		1.2		1.79		0.916		447000		0.688	U	4.2	
Dibromochloromethane	124-48-1	NS	1.7	U	1.7	U	1.7	U	1.7	U	14200	U	1.7	U	1.7	U
Dichlorodifluoromethane	75-71-8	NS	2.5		2.57		2.32		1.45		8260	U	1.83		1.73	
Ethanol	64-17-5	NS	471		867		629		938		78600	U	9.42	U	103	
Ethyl Acetate	141-78-6	NS	62.7		58.4		24.5		54.8		15000	U	1.8	U	1.8	U
Ethylbenzene	100-41-4	60	11.2		7.12		1.97		16		28900		0.869	U	1.07	
Freon-113	76-13-1	NS	1.53	U	1.53	U	1.53	U	1.53	U	12800	U	1.53	U	1.53	U
Freon-114	76-14-2	NS	1.4	U	1.4	U	1.4	U	1.4	U	11700	U	1.4	U	1.4	U
Heptane	142-82-5	200	6.31		2.32		3.2		2.21		-	-	0.82	U	4.22	
Hexachlorobutadiene	87-68-3	NS	2.13	U	2.13	U	2.13	U	2.13	U	17800	U	2.13	U	2.13	U
Isopropanol	67-63-0	NS	111		184		111		156		20500	U	13.5		31.7	
Methyl tert butyl ether	1634-04-4	NS	0.721	U	0.721	U	0.721	U	0.721	U	6020	U	0.721	U	0.721	U
Methylene chloride	75-09-2	100	1.74	U	1.74	U	1.74	U	1.74	U	14500	U	1.74	U	1.74	U
n-Hexane	110-54-3	200	4.44		0.705	U	8.6		1.87		2490000		1.56		12.7	
Naphthalene	91-20-3	60	0.996	U	1.98		0.996	U	2.43		8280	U	1.49		1.78	
o-Xylene	95-47-6	60	10.2		8.25		2.57		9.08		7250	U	0.869	U	3.31	
p/m-Xylene	179601-23-1	200	27.1		19.8		6.91		21.1		25300		1.74	U	4.95	
Styrene	100-42-5	NS	5.62		3.11		0.852	U	0.852	U	7110	U	0.852	U	0.852	U
Tertiary butyl Alcohol	75-65-0	NS	5.76		15.2		13.9		12.7		12600	U	6.37		42.1	
Tetrachloroethene	127-18-4	100	2.39		154		23.6		2.53		11300	U	20.6		4.54	
Tetrahydrofuran	109-99-9	NS	1.9		14.6		3.57		5.93		12300	U	2.6		1.47	U
Toluene	108-88-3	300	32		15.1		8.71		15		6290	U	0.754	U	4.97	
trans-1,2-Dichloroethene	156-60-5	NS	14.4		0.793	U	0.793	U	0.793	U	6620	U	0.793	U	0.793	U
trans-1,3-Dichloropropene	10061-02-6	NS	0.908	U	0.908	U	0.908	U	0.908	U	7580	U	0.908	U	0.908	U
Trichloroethene	79-01-6	6	1.07	U	1.07	U	1.07	U	1.07	U	8970	U	1.27		1.07	U
Trichlorofluoromethane	75-69-4	NS	1.18		1.12	U	1.12	U	1.12	U	9380	U	2.03		1.12	U
Vinyl bromide	593-60-2	NS	0.874	U	0.874	U	0.874	U	0.874	U	7300	U	0.874	U	0.874	U
Vinyl chloride	75-01-4	6	0.511	U	0.511	U	0.511	U	0.511	U	4270	U	0.511	U	0.511	U
Volatile Organics in Air by SIM																
Heptane	142-82-5	200	-	-	-	-	-	-	-	-	852000		-	-	-	-

NOTES:
1. All results measured in ug/m3
Concentration Exceeds NY-SSC-A-F
"NS" = No Standard
"-" = Not Analyzed
"U" = Compound Not Detected
NY-SSC-A-F = New York DOH Matrices A-F Sub-slab Vapor Concentrations Criteria per Guidance for Evaluating Soil Vapor Intrusion, October 2006, and updated February, 2024.

Appendix D:

Boring Logs

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-1**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	7/7/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: Wes Franco	DATE COMPLETED:	7/7/2025	0 Hr. | 24 Hr. | Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			Asphalt 0-1	0.1
						Dark Brown C-F Sand trace silt /gravel	
5			5	5			
							2400 at 7in
						Dark Grey/ Brown C-F Sand trace silt	
10			10	10			
						grey C-F Sand / Clay some silt trace gravels	
							26.7
15				15		Refusal @ 15ft	
						Sample @ 5.5-6.0	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-2**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	7/8/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: Wes Franco	DATE COMPLETED:	7/8/2025	0 Hr. | 24 Hr. | Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			Asphalt 0-1	0
						Brown Sand w/ trace silt/ organic debris/ little gravel	
5			5	5			
							0
						Brown C-F Sand with trace silts/ some C-F gravel/ cobbles	
10			10	10			
						Brown to grey Clay with some little gravel C-F wet at 8.5 ft	
							0
15				15	EOB	Refusal @ 15ft	
						Sample @ 12-12.5ft	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-3**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	7/8/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: Wes Franco	DATE COMPLETED:	7/8/2025	0 Hr. ___ 24 Hr. Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			Asphalt 0-1	0
						Light Brown SandC-F w/ trace silt/ organic debris/ C-F gravel	
5			5	5			
							0
						Grey C-F Sand with trace silts/ some C-F gravel/ cobbles	
10			10	10			
						Grey C-F Sand some silt with some little gravel C-F wet at 8.5 ft	
							138.5
						Bedrock	
15				15	EOB	Refusal @ 15ft	
						Sample @ 10-10.5ft	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-4**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	7/7/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	7/7/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0				0
						Brown C-F Sand trace silt / pulverized stone debris	
5			5	5			
						Reddish Brown C-F Sand trace silt / some mid to fine gravel/ possible fill material	0
10			10	10			
						Reddish Brown to grey C-F some silt cobbles/ gravels	
15				15		Refusal @ 15ft	0
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-5**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	7/7/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: Wes Franco	DATE COMPLETED:	7/7/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0				0
						Brown C-F Sand trace silt / pulverized stone debris	
5			5	5			
							28.5
						Light Brown C-F Sand trace silt / some mid to fine gravell	
10			10	10			
						Light Brown to grey C-F some silt cobbles/ gravels	
							11.5
15				15		Refusal @ 15ft	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-6**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	7/7/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: Wes Franco	DATE COMPLETED:	7/7/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0				0
						Brown C-F Sand trace silt / pulverized stone debris	
5			5	5			
							0
						Brown C-F Sand trace silt / cobbles same as above	
10			10	10			
						Grey C-F Sand some silt cobbles/ gravels	
				13			0
15						Refusal @ 13ft	
						Sample @ 10.5-11.0	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-7**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	7/7/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: Wes Franco	DATE COMPLETED:	7/7/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0				0
						0-6 in Brown C-F Sand trace silt cobbles / organic matter	
						Brown C-F Sand little silt	
5			5	5			
							0
						Brown C-F Sand little silt pulverized stone	
10			10	10	EOB	Refusal @ 10ft	
						Sample @ 2.5-3.0 ft	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-8**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	7/7/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: Wes Franco	DATE COMPLETED:	7/7/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0				0
						0-1 Asphalt	
						Brown C-F Sand trace silt some C-F Gravel. Some cobbles	
5			5	5			
							0
						Brown C-F Sand trace silt / cobbles same as above	
10			10	10			
						Grey C-F Sand/ Clay some silt C-F cobbles/ gravels	
							0
15				15	EOB	Refusal @ 15ft	
						Sample @ 8-8.5 ft	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-9**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	7/8/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: Wes Franco	DATE COMPLETED:	7/15/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			Asphalt 0-1	0
						1-4 Brown Sand w/ trace silt/ some C-F Gravel pulverized rock	
5			5	5			
							0
						4-10 Brown C-F Sand with trace silts/ some C-F gravel/ little cobbles	
10			10	10			
						Brown C-F Sand trace silt with some little gravel C-F / cobbles	
						redox features	0
15			15	15			
						Sample @ 13-13.5ft	
				18		Refusal @ 18ft	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-10**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	7/8/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: Wes Franco	DATE COMPLETED:	7/15/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			Asphalt 0-1	0
						Brown Sand w/ trace silt/ some C-F Gravel possible fill maerial	
5			5	5			
						same as above	0
10			10	10			
						Grey C-F Silt some Sand redox featues	0
15			15	15			
						Sample @ 4-4.5ft	
						Refusal @ 15ft	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-11**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	7/8/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: Wes Franco	DATE COMPLETED:	7/8/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			Asphalt 0-1	0
						Brown Sand w/ trace silt/ some C-F Gravel possible fill maerial	
5			5	5			
							0
						10-Jan	
						Dark Brown / Grey C-F Sand with trace silts/ some C-F gravel/ little cobbles	
						possibly native	
10			10	10			
						10-15 Brown C-F Sand trace silt with some little gravel C-F / cobbles	
						15-17 Dark brown C-F Sand little silt some -F gravel cobbles redox features	0
						impacted 16-17	
15			15	15			
						Sample @ 16-16.5ft	
				17			
						Refusal @ 17ft	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-12**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED: 7/8/2025	GROUNDWATER TABLE DEPTH:	
INSPECTOR: Wes Franco	DATE COMPLETED: 7/15/2025	0 Hr. / 24 Hr. / Date	

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			Asphalt 0-1	0
						Brown Sand w/ trace silt/ some C-F Gravel possible fill maerial	
5			5	5			
							0
						Dark Brown C-F Sand with trace silts/ some C-F gravel/ little cobbles	
10			10	10			
						Dark Brown/ grey C-F Sand some silt with some little gravel C-F / cobbles	
						wet/ redox features at 13ft	0
15			15	15			
						Sample @ 1.5-2.0ft	
				19		Refusal @ 19ft	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-13**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	7/9/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: Wes Franco	DATE COMPLETED:	7/9/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			Asphalt 0-1	0
						Brown Sand w/ trace silt/ some C-F Gravel possible fill maerial	
5			5	5			
							0
						Brown C-F Sand with trace silts/ some C-F gravel/ little cobbles	
10			10	10			
						Brown C-F Sand trace silt with some little gravel C-F / cobbles	
							0
15			15	15			
						Sample @ 5-5.5ft	
				18		Refusal @ 18ft	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-14**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	7/9/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: Wes Franco	DATE COMPLETED:	7/9/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			Cement 0-1	0
						Brown Sand w/ trace silt/ some C-F Gravel possible fill maerial	
5			5	5			
							0
						Brown C-F Sand with trace silts/ some C-F gravel/ little cobbles	
10			10	10			
						Grey C-F Sand trace silt with some little gravel C-F / cobbles	
							0
15			15	15			
				16	EOB	Sample @ 3.5-4.0ft	
						Refusal @ 16ft	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-15**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED: 7/8/2025	GROUNDWATER TABLE DEPTH:	
INSPECTOR: Wes Franco	DATE COMPLETED: 7/8/2025	0 Hr.	24 Hr. / Date

DEPTH (ft) 0	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
			0			Cement 0-1	0
						Brown Sand w/ trace silt/ some C-F Gravel possible fill maerial	
5			5	5			
							0
						Brown C-F Sand with trace silts/ some C-F gravel/ little cobbles	
10			10	10			
						Grey C-F Sand trace silt with some little gravel C-F / cobbles	
						weathered rock / redox feature	0
15			15	15		Refusal 15ft	
						6-6.5 sample	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-16**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	7/8/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: Wes Franco	DATE COMPLETED:	7/8/2025	0 Hr. | 24 Hr. | Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			Cement 0-1	0
						Brown Sand w/ trace silt/ some C-F Gravel possible fill maerial	
5			5	5			
				6	EOB	Refusal at 6ft	0
						2-2.5 sampled	
10							
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-17**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	7/8/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: Wes Franco	DATE COMPLETED:	7/8/2025	0 Hr. | 24 Hr. | Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			Cement 0-1	0
						Brown Sand w/ trace silt/ some C-F Gravel possible fill maerial	
5			5	5	EOB	Refusal @ 5ft	
						Sample 3-3.5ft	
10							
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-18**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	7/8/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: Wes Franco	DATE COMPLETED:	7/8/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			Cement 0-1	0
						Brown Sand w/ trace silt/ some C-F Gravel possible fill maerial	
5			5	5			
							0
						Brown C-F Sand with trace silts/ some C-F gravel/ little cobbles	
10			10	10			
						Grey C-F Sand trace silt with some little gravel C-F / cobbles	
							0
15			15	15			
				16	EOB	Sample @ 3-3.5ft	
						Refusal @ 16ft	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-19**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	7/8/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: Wes Franco	DATE COMPLETED:	7/8/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			Cement 0-1	0
						Brown Sand w/ trace silt/ some C-F Gravel possible fill maerial	
5			5	5			
							0
						Brown C-F Sand with trace silts/ some C-F gravel/ little cobbles	
10			10	10			
						Grey C-F Sand trace silt with some little gravel C-F / cobbles	
							0
15			15	15			
				16	EOB	Sample @ 3-3.5ft	
						Refusal @ 16ft	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-20**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	7/8/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: Wes Franco	DATE COMPLETED:	7/8/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			Cement 0-1	0
						Brown Sand w/ trace silt/ some C-F Gravel possible fill maerial	
5			5	5			
							0
						Brown C-F Sand with trace silts/ some C-F gravel/ little cobbles	
10			10	10			
						Grey C-F Sand trace silt with some little gravel C-F / cobbles	
							0
15			15	15			
				16	EOB	Sample @ 3-3.5ft	
						Refusal @ 16ft	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-21**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	7/8/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: Wes Franco	DATE COMPLETED:	7/8/2025	0 Hr. | 24 Hr. | Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			Cement 0-1	0
						Brown Sand w/ trace silt/ some C-F Gravel possible fill maerial	
5			5	5			
							0
						Brown C-F Sand with trace silts/ some C-F gravel/ little cobbles	
10			10	10			
						Grey C-F Sand trace silt with some little gravel C-F / cobbles	
							0
15			15	15			
				16	EOB	Sample @ 3-3.5ft	
						Refusal @ 16ft	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-22**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED: 7/11/2025	GROUNDWATER TABLE DEPTH:	
INSPECTOR: Wes Franco	DATE COMPLETED: 7/11/2025	0 Hr. / 24 Hr. / Date	

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			Cement 0-1	0
						1-7Brown Sand w/ trace silt/ some C-F Gravel possible redox features	
5			5	5			
							0
						7-13 Light Brown / Grey C-F Sand with trace silts/ some C-F gravel/ little cobbles	
10			10	10			
							0
15			15	15			
				16	EOB	Sample @ 1.0-1.5ft	
						Refusal @ 13ft	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-23**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	7/29/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: Wes Franco	DATE COMPLETED:	7/29/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			Cement 0-1	0
						1-7Brown Sand w/ trace silt/ some C-F Gravel possible redox features	
5			5	5			
							0
						7-13 Light Brown / Grey C-F Sand with trace silts/ some C-F gravel/ little cobbles	
						Strong odor	
10			10	10			
							0
15			15	15			
				16	EOB		
						Refusal @ 13ft	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-24**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	7/29/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: Wes Franco	DATE COMPLETED:	7/29/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			Asphalt 0-1	0
						Light Brown SandC-F w/ trace silt/ organic debris/ C-F gravel	
5			5	5			
							0
						Grey C-F Sand with trace silts/ some C-F gravel/ cobbles	
10			10	10			
						Grey C-F Sand some silt with some little gravel C-F wet at 8.5 ft	
							112.2
						Bedrock	
15				15	EOB	Refusal @ 15ft	
						Sample @ 10-10.5ft	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-25**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	7/29/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: Wes Franco	DATE COMPLETED:	7/29/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			Asphalt 0-1	0
						Light Brown SandC-F w/ trace silt/ organic debris/ C-F gravel	
5			5	5			
							0
						Grey C-F Sand with trace silts/ some C-F gravel/ cobbles	
10			10	10			
						Grey C-F Sand some silt with some little gravel C-F wet at 8.5 ft	
							112.2
						Bedrock	
15				15	EOB	Refusal @ 15ft	
						Sample @ 10-10.5ft	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-26**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	7/30/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: Wes Franco	DATE COMPLETED:	7/30/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			Asphalt 0-1	0
						Light Brown SandC-F w/ trace silt/ organic debris/ C-F gravel	
5			5	5			
							0
						Grey C-F Sand with trace silts/ some C-F gravel/ cobbles	
10			10	10			
						Grey C-F Sand some silt with some little gravel C-F wet at 8.5 ft	
							78.8
						Bedrock	
15				14	EOB	Refusal @ 14ft	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-27**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	7/30/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: Wes Franco	DATE COMPLETED:	7/30/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			Asphalt 0-1	0
						Light Brown SandC-F w/ trace silt/ organic debris/ C-F gravel	
5			5	5			
							0
						Grey C-F Sand with trace silts/ some C-F gravel/ cobbles	
10			10	10			
						Grey C-F Sand some silt with some little gravel C-F wet at 8.5 ft	
							102.3
						Bedrock	
15				14	EOB	Refusal @ 14ft	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-28**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	7/30/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: Wes Franco	DATE COMPLETED:	7/30/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			Asphalt 0-1	0
						Light Brown SandC-F w/ trace silt/ organic debris/ C-F gravel	
5			5	5			
							0
						Grey C-F Sand with trace silts/ some C-F gravel/ cobbles	
10			10	10			
						Grey C-F Sand some silt with some little gravel C-F	
							56.7
						Bedrock	
15				15	EOB	Refusal @ 15ft	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-29**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED: 7/30/2025	GROUNDWATER TABLE DEPTH:	
INSPECTOR: Wes Franco	DATE COMPLETED: 7/30/2025	0 Hr. / 24 Hr. / Date	

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0				0
						Brown C-F Sand trace silt / pulverized stone debris	
5			5	5			
						Brown C-F Sand trace silt / cobbles same as above	0
10			10	10			
						Grey C-F Sand some silt cobbles/ gravels	
				13	EOB		0
15						Refusal @ 13ft	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-30**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	7/31/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	7/31/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			0-1 Concrete / Aspahlt	20.2
						Grey / Brown C-F Sand trace silt/ gravel/ small stones /concrete	
5			5	5			
							30.4
						Grey Sand C-F little silt / pulverized stone	
10			10	10			
							10.5
						Grey C-F Sand little silt Black 11-13ft	
15			15	15	EOB	Refusal @ 15ft	
							0
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-31**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	7/31/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	7/31/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			0-1 Concrete / Aspahlt	12.1
						Grey / Brown C-F Sand trace silt/ gravel/ small stones /concrete	
5			5	5			
							26.2
						Grey Sand C-F little silt / pulverized stone	
10			10	10			
						Odor	
						Grey C-F Sand little silt	
15			15	15	EOB	Refusal @ 15ft	
							0
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

	14228	GEOPROBE NO.	**SB-32**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	7/31/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	7/31/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			0-1 Aspahlt	0.9
						Brown C-F sand trace silt cobble	
5			5	5			
							29.2
						Brown C-F SAND trace silt/ pulverized stone	
10			10	10			
							13.1
						Brown / Grey C-F Sand little silt 13-14 ft Black/Grey wet some rocks	
15			15	15	EOB	Refusal @ 15ft	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-33**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	7/31/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	7/31/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0				0
						Grey/ Brown C-F Sand trace silt/ w/ rocks / organics	
5			5	5			
							14
						Grey/ Brown C-F Sand trace silt w/ roocks	
10			10	10			
							34.3
						Black/ Grey Sand C-F Strong smell little silt/ wet	
						13-15 Brown Sand little silt wet/ cobble	
15			15	15	EOB	Refusal @ 15ft	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-34**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	7/31/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	7/31/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0				0
						Grey/ Brown C-F Sand trace silt/ w/ rocks / organics	
5			5	5			
							36.2
						Grey/ Brown C-F Sand trace silt w/ roocks	
10			10	10			
							21.3
						Black/ Grey Sand C-F Strong smell little silt/ wet	
						13-15 Brown Sand little silt wet/ cobble	
15			15	15	EOB	Refusal @ 15ft	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-35**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	7/31/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	7/31/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0				0
						Grey/ Brown C-F Sand trace silt/ w/ rocks / organics	
5			5	5			
							32
						Grey/ Brown C-F Sand trace silt w/ roocks	
10			10	10			
							43.1
						Black/ Grey Sand C-F Strong smell little silt/ wet	
						13-15 Brown Sand little silt wet/ cobble	
15			15	15	EOB	Refusal @ 15ft	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-36**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED: 8/1/2025	GROUNDWATER TABLE DEPTH:	
INSPECTOR: James Blind	DATE COMPLETED: 8/1/2025	0 Hr.	24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0				0
						Grey/ Brown C-F Sand trace silt/ w/ rocks / organics	
5			5	5			
							32.8
						Grey/ Brown C-F Sand trace silt w/ roocks	
10			10	10			
							28.1
						Grey Sand C-F smells little silt	
						13-16 Brown Sand little silt wet/ cobble	
15			15				
				16	EOB	Refusal @ 16ft	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-37**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	7/31/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: Wes Franco	DATE COMPLETED:	7/31/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			Asphalt 0-1	0
						Brown Sand w/ trace silt/ some C-F Gravel possible fill maerial	
5			5	5			
							0
						Brown C-F Sand with trace silts/ some C-F gravel/ little cobbles	
10			10	10			
						Brown C-F Sand trace silt with some little gravel C-F / cobbles	
							0
15			15	15			
				18		Refusal @ 18ft	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-38**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	7/30/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: Wes Franco	DATE COMPLETED:	7/30/2025	0 Hr. | 24 Hr. | Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			Asphalt 0-1	0
						Brown Sand w/ trace silt/ some C-F Gravel possible fill maerial	
5			5	5			
							0
						10-Jan	
						Dark Brown / Grey C-F Sand with trace silts/ some C-F gravel/ little cobbles	
						possibly native	
10			10	10			
						10-15 Brown C-F Sand trace silt with some little gravel C-F / cobbles	
						15-17 Dark brown C-F Sand little silt some -F gravel cobbles redox features	0
15			15	15			
				17			
						Refusal @ 17ft	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-39**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	7/31/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: Wes Franco	DATE COMPLETED:	7/31/2025	0 Hr. | 24 Hr. | Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			Asphalt 0-1	0
						Brown Sand w/ trace silt/ some C-F Gravel possible fill maerial	
5			5	5			
							0
						10-Jan	
						Dark Brown / Grey C-F Sand with trace silts/ some C-F gravel/ little cobbles	
						possibly native	
10			10	10			
						10-15 Brown C-F Sand trace silt with some little gravel C-F / cobbles	
						15-16 Dark brown C-F Sand little silt some -F gravel cobbles redox features	0
15			15	15			
				16		Refusal @ 16ft	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-40**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED: 8/11/2025	GROUNDWATER TABLE DEPTH:	
INSPECTOR: James Blind	DATE COMPLETED: 8/11/2025	0 Hr.	24 Hr. Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			0-0.5 Asphalt	1.1
					1-1.5	Grey/ Brown C-F Sand trace silt pulverized stone	
5			5	5			
							4.1
					8-8.5		
						Grey/ Dark Brown C-F sand trace silt w/ cobble	
						slight clay	
10			10	10		8-9ft moist	
							2.7
					13.5-14	Same as above darker brown	
15			15	15			
				16	EOB	Refusal @ 16 ft	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-41**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	8/11/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	8/11/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			0-0.5 Asphalt	1.1
					0-0.5	Grey/ Brown C-F Sand trace silt pulverized stone	
5			5	5			
							4.1
					7-7.5		
				8	EOB	Grey/ Dark Brown C-F sand trace silt w/ cobble slight clay	
						Refusal @ 8ft	
10							
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-42**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	8/11/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	8/11/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			0-0.5 Asphalt	0
					0-0.5	Grey/ Brown C-F Sand trace silt pulverized stone	
5			5	5			
							0
					8-8.5		
						Grey/ Dark Brown C-F sand trace silt w/ cobble/ slight clay	
				9	EOB	Refusal @ 9ft	
10							
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _____

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-43**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	8/11/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	8/11/2025	0 Hr. ___ 24 Hr. Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			0-0.5 Asphalt	0
					0.5-1	Grey/ Brown C-F Sand trace silt pulverized stone	
5			5	5			
					9-9.5	Grey/ Dark Brown C-F sand trace silt w/ cobble/ slight clay	0
10				10	EOB	Refusal @ 10ft	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _____

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-44**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	8/11/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	8/11/2025	0 Hr. | 24 Hr. | Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			0-1 Asphalt	2
					2-2.5	Grey/ Brown C-F Sand trace silt pulverized stone	
5			5	5			
10							
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-45**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	8/11/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	8/11/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			0-1 concrete	0
					1-1.5	1-5 Brown C-F Sand trace silt pulverized stone/ cobbles	
5			5	5			
							0
					9-9.5		
						brown/ Dark Brown C-F sand trace silt w/ cobble/ slight clay	
						possible petrolium/ coal	
10				10	EOB	Refusal @ 10ft	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _____

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-46**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	8/11/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	8/11/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			0-1 asphalt	0
					1-1.5	1-5 Light brown/tan C-F Sand some silt pulverized stone/ cobbles	
5			5	5			
							0
					9-9.5		
						brown/ Dark Brown C-F sand somesilt w/ cobble/ slight clay	
						wet	
10				10	EOB	Refusal @ 10ft	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-47**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	8/11/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	8/11/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			0-1 asphalt and concrete	3.5
					1-1.5	1-5 Light brown/tan C-F Sand some silt pulverized stone/ cobbles	
5			5	5			
							2
					9-9.5		
						brown/ Dark Brown C-F sand somesilt w/ cobble/ slight clay	
						wet	
10				10		coal?	
				11	EOB	Refusal @ 11ft	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-48**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	8/11/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	8/11/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			0-1 asphalt and concrete	3.5
					2-2.5	1-5 Light brown/tan C-F Sand some silt pulverized stone/ cobbles	
5			5	5			
							2
					7.5-8		
						brown/ Dark Brown C-F sand somesilt w/ cobble/ slight clay	
						wet	
10			10	10		coal?	
					12.5-13		
						LB sand some silt wet grey clay	
				13	EOB	Refusal @ 13ft	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _____

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-49**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	8/11/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	8/11/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			0-5 asphalt	0
					1-1.5	Dark brown C-F Sand some silt pulverized stone/ cobbles	
5			5	5			
							0
					7-7.5		
						sameas above/ concrete @6ft	
						wet	
10				10	EOB	Refusal @ 10ft	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-50**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	8/11/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	8/11/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			0-1 asphalt	0
						Dark brown C-F Sand some silt pulverized stone/ cobbles	
5			5	5			
							0
					6.5-7		
						same as above brown not dark brown	
						wet	
10				10	EOB	Refusal @ 10ft	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-51**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	8/11/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	8/11/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			0-1 concrete	0
					2.5-3	Grey Sand C-F some silt pulverized stone/ cobbles	
5			5	5			
							0
					9-9.5		
						Brown/grey sand trace silt	
						Wet/ slight odor	
10				10	EOB	Refusal @ 10ft	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-52**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	8/11/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	8/11/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			0-1 concrete	0
					2.5-3	Light Brown / grey Sand C-F some silt pulverized stone/ cobbles	
5			5	5			
							0
					7.5-8		
						Brown Sand some silt little stone cobble	
						Wet/ slight odor	
10				10	EOB	Refusal @ 10ft	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _____

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-53**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	8/11/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	8/11/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			0-1 Asphalt	2
					2-2.5	Grey/ Brown C-F Sand trace silt pulverized stone	
5			5	5			
10							
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-54**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED: 8/11/2025	GROUNDWATER TABLE DEPTH:	
INSPECTOR: James Blind	DATE COMPLETED: 8/11/2025	0 Hr.	24 Hr. Date

DEPTH (ft) 0	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
			0			0-0.5 concrete	0
					0.5-1	Brown C-F Sand trace silt pulverized stone	
5			5	5			
					8.5-9		
						5-7 fill	0
						7-10 brown c-f sand little silt	
10			10	10	EOB	Refusal @10 ft	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-55**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	8/11/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	8/11/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			0-0.5 concrete	0
					0.5-1	Brown/ dark brown C-F Sand some silt pulverized stone	
5			5	5			
					8.5-9		
						5-7 dark brown sand some silt little clay/gravel	0
						7-10 Light brown c-f sand some silt	
10			10	10	EOB	Refusal @10 ft	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-56**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	8/12/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	8/12/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			0-1 asphalt	0
					0.5-1	Brown C-F Sand some silt litlle clay pulverized stone	
5			5	5			
					8.5-9		
						5-7 brown sand some silt little clay/gravel/ moist	0
						7-12 Light brown c-f sand some silt little gravel /little clay	
10			10	10			
						wet	
				12	EOB	Refusal @ 12ft	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _____

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-57**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	8/12/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	8/12/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			0-1 asphalt	0
					1-1.5	Brown C-F Sand some silt litlle clay pulverized stone	
5			5	5			
					7.5-8		
						5-7 same as above	0
						7-13 Light brown c-f sand some silt little gravel /little clay	
10			10	10	10.5-11	wet at 8ft	
				13	EOB	Refusal @ 13ft	
							0
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-58**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	8/12/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	8/12/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			0-1 asphalt	0
					4-4.5	Dark Brown/ Brown C-F Sand little silt pulverized stone	
5			5	5			
					7.5-8		
						5-7 same as above	0
						7-10 Light brown c-f sand some silt little gravel /little clay	
						moist	
10			10	10	EOB	Refusal @ 10ft	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-59**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	8/12/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	8/12/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			0-1 asphalt	0
					1-1.5	LB/ Brown C-F Sand some silt pulverized stone	
5			5	5	EOB	Refusal @ 5ft	

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-60**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	8/12/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	8/12/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			0-1 asphalt	0
					2.5-3	Brown C-F Sand some silt pulverized stone/ little clay	
						odor	
5			5	5			
					6.5-7		
						5-7 LB/ tan same as above	0
						7-10 Light brown c-f sand some silt little gravel /little clay	
						moist/ gravel 7.5ft	
10			10	10	EOB	Refusal @ 10ft	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _____

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-61**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	8/12/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	8/12/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			0-1 asphalt	0
					1-1.5	Dark brown/ Brown C-F Sand little silt / some gravel c-f / little clay	
						some concrete at 0.5	
5			5	5			
						5-7 LB/ tan C-F sand little silt	0
						7-10 Light brown/ tan c-f sand little silt little gravel /little clay	
						brown/ dark brown some parts	
10			10	10	EOB	Refusal @ 10ft	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-62**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	8/12/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	8/12/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			0-1 asphalt	0
					4-4.5	Dark brown/ Brown C-F Sand little silt / gravel c-f / trace clay	
5			5	5			
					6.5-7	5-7 LB/ C-F sand little silt	0
						7-10 Light brown/ tan c-f sand little silt little gravel /little clay	
10			10	10	EOB	Refusal @ 10ft	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _____

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-63**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	8/12/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	8/12/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			0-0.5 asphalt	0
					2-2.5	Brown C-F Sand some silt / gravel c-f / ltle clay	
5			5	5			
					7.5-8		0
						Light brown/ Brown c-f sand some silt little gravel /little clay	
						wet a 8ft	
10			10	10	EOB	Refusal @ 10ft	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _____

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-64**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	8/12/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	8/12/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			0-0.5 asphalt	0
					2-2.5	Brown C-F Sand some silt / some gravel c-f / trace clay	
						concrete @ 2.5ft	
5			5	5			
					7.5-8	Tan / LB sand c-f some silt	0
						Light brown/ Brown c-f sand some silt little gravel /little clay	
						wet a 9ft/ gravel at 8ft	
10			10	10	EOB	Refusal @ 10ft	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _____

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-65**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	8/12/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	8/12/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			0-0.5 asphalt	0
					1.5-2	LB/ Brown C-F Sand some silt / little gravel c-f / trace clay	
5			5	5			
					6.5-7	Tan / LB sand c-f some silt	0
						Light brown/ Brown c-f sand some silt little gravel /trace clay	
10			10	10	EOB	Refusal @ 10ft	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _____

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-66**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	8/13/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	8/13/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			0-1 asphalt	0
					0.5-1.0	Brown C-F Sand some silt / little gravel c-f / trace clay	
5			5	5			
					8.75-9.75	Tan / LB sand c-f some silt	0
						Light brown/ Brown c-f sand some silt /little gravel c-f /trace clay	
10			10	10	EOB	Refusal @ 10ft	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-67**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	8/13/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	8/13/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			0-1 asphalt	0
					0.5-1.0	Brown C-F Sand some silt / little gravel c-f / trace clay	
5			5	5			
					8.75-9.75	Tan / LB sand c-f some silt	0
						Light brown/ Brown c-f sand some silt /little gravel c-f /trace clay	
10			10	10	EOB	Refusal @ 10ft	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _____

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-68**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	8/13/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	8/13/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			0-1 asphalt	0
					3.5-4	Brown C-F Sand little silt / little gravel c-f / trace clay	
						dry	
5			5	5			
					5.5-6	Tan / LB sand c-f some silt	0
						Light brown/ Brown c-f sand some silt /little gravel c-f /trace clay	
						moist	
10			10	10	EOB	Refusal @ 10ft	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-69**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	8/13/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	8/13/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			0-0.5 asphalt	0
					0.5-1.0	Brown C-F Sand some silt / little gravel c-f / trace clay	
5			5	5			
					8.75-9.75	Tan / LB sand c-f some silt	0
						Light brown/ Brown c-f sand some silt /little gravel c-f /trace clay	
10			10	10	EOB	Refusal @ 10ft	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-70**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	8/13/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	8/13/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			0-1 asphalt	0
					3.5-4	Brown / tan C-F Sand little silt / little gravel c-f / trace clay	
5			5	5			
							0
						Brown c-f sand some silt /little gravel c-f /trace clay	
10			10	10	EOB	Refusal @ 10ft	

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _____

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-71**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED: 9/4/2025	GROUNDWATER TABLE DEPTH:	
INSPECTOR: James Blind	DATE COMPLETED: 9/4/2025	0 Hr.	24 Hr. Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0		2.0-2.5	0-1 Concrete	2.5
						1.5-3.0 Brown C-F Sand trace silt / cobble	
						3-6 Brown C-F Sand trace silt / cobble	
5			5	5			
					8.5-9.0	6-9 Brown C-F Sand little silt/ slight moisture	6.2
10				10	EOB	Refusal @10ft	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-72**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	9/4/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	9/4/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			0-1 Concrete	2.5
						1.5-3.0 Brown C-F Sand trace silt / cobble	
						3-6 Brown C-F Sand trace silt / cobble	
5			5	5			
						6-9 Brown C-F Sand little silt/ slight moisture	6.2
10				10	EOB	Refusal @10ft	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-73**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	9/4/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	9/4/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0		1.5-2.0	0-1.5 Concrete	4.5
						1.5-2.5 Dark Black/ Brown C-F Sand trace silt	
						2.5-5 Brown CF Sand trace silt some rocks	
5			5	5			
					8-8.5	5-10 Grey C-F Sand/M-F Sand w/ silt trace clay (Oil Smell)	52.5
10			10	10			
					12.5-13	10-15 Grey C-F Sand/M-F Sand w/ silt trace clay (Oil Smell)	1.8
15				15	EOB	Refusal @ 15ft	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-74**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED: 9/5/2025	GROUNDWATER TABLE DEPTH:	
INSPECTOR: James Blind	DATE COMPLETED: 9/5/2025	0 Hr.	24 Hr. Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0		2.5-3	0-1 Concrete / Aspahlt	0.2
						Brown C-F sand trace silt cobble	
5			5	5			
					6.5-7		2.1
						Brown C-F SAND trace silt/ pulverized stone	
10			10	10			
					13.5-14		2
						Brown C-F Sand trace silt/ Pulverized stone	
15			15	15			
					16.5-17		0
						Grey/ Brown C-F Sand little silt trace clay	
20				20	EOB		
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-75**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED: 9/5/2025	GROUNDWATER TABLE DEPTH:	
INSPECTOR: James Blind	DATE COMPLETED: 9/5/2025	0 Hr.	24 Hr. Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0		3-3.5	0-1 Concrete / Aspahlt	0.2
						Brown C-F sand trace silt cobble	
5			5	5			
					6.5-7		2.1
						Brown C-F SAND trace silt/ pulverized stone	
10			10	10			
					12-12.5		2
						Brown C-F Sand trace silt/ Pulverized stone	
15			15	15			
					18-18.5		0
						Grey/ Brown C-F Sand little silt trace clay	
20				20	EOB		
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-76**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED: 9/5/2025	GROUNDWATER TABLE DEPTH:	
INSPECTOR: James Blind	DATE COMPLETED: 9/5/2025	0 Hr.	24 Hr. Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0		2-2.5	0-1 Concrete	0
						Brown C-F sand trace silt cobble	
5			5	5			
					5.5-6		1.1
						Brown C-F SAND trace silt/ pulverized stone	
10			10	10			
					12.5-13		2.9
						Brown C-F Sand trace silt/ Pulverized stone	
15			15	15			
					17.5-18		0
						Grey/ Brown C-F Sand little silt trace clay	
20				20	EOB		
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-77**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	9/8/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	9/8/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			0-1 Concrete / Aspahlt	23.8
						Grey / Brown C-F Sand trace silt/ gravel/ small stones /concrete	
5			5	5			
							25.9
						Grey Sand C-F little silt / pulverized stone	
10			10	10			
							13.5
						Grey C-F Sand little silt Black 11-13ft	
15			15	15	EOB	Refusal @ 15ft	
							0
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _____

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-78**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	9/4/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	9/4/2025	0 Hr. ___ 24 Hr. Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0							
	36		0	3	2.5-3.0	0-1 Concrete	1.3
						Brown/Grey C-F SAND trace silt/ some rocks	
			3				
5							
	36		6	11	6.5-7.0	6-11 Brown/ Grey C-F SAND ittle silt/ some rocks	2.5
10							
				EOB		Refusal @ 11ft	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _____

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-79**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED: 9/8/2025	GROUNDWATER TABLE DEPTH:	
INSPECTOR: James Blind	DATE COMPLETED: 9/8/2025	0 Hr.	24 Hr. Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0		2.5-3	0-1 Aspahlt	12.9
						Brown C-F sand trace silt cobble	
5			5	5			
					7.5-8		34.8
						Brown C-F SAND trace silt/ pulverized stone	
10			10	10			
					13.5-14		23.1
						Brown / Grey C-F Sand little silt 13-14 ft Black/Grey wet some rocks	
15			15	15	EOB	Refusal @ 15ft	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-80**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED: 9/8/2025	GROUNDWATER TABLE DEPTH:	
INSPECTOR: James Blind	DATE COMPLETED: 9/8/2025	0 Hr.	24 Hr. / Date

DEPTH (ft) 0	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
			0		4-4.5		0
						Grey/ Brown C-F Sand trace silt/ w/ rocks / organics	
5			5	5			
					8.5-9		14
						Grey/ Brown C-F Sand trace silt w/ roocks	
10			10	10			
					12-12.5		34.3
						Black/ Grey Sand C-F Strong smell little silt/ wet	
						13-15 Brown Sand little silt wet/ cobble	
15			15	15	EOB	Refusal @ 15ft	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-81**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED: 9/9/2025	GROUNDWATER TABLE DEPTH:	
INSPECTOR: James Blind	DATE COMPLETED: 9/9/2025	0 Hr.	24 Hr. Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0			0-0.5 Asphalt	1.1
						Grey/ Brown C-F Sand trace silt pulverized stone	
5			5	5			
							4.1
						Grey/ Dark Brown C-F sand trace silt w/ cobble	
10			10	10	EOB	Refusal @ 10 ft	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-82**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED: 9/9/2025	GROUNDWATER TABLE DEPTH:	
INSPECTOR: James Blind	DATE COMPLETED: 9/9/2025	0 Hr.	24 Hr. Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0		3.-4.0	0-1 Asphalt	0
						1-5 Brown C-F Sand trace silt pulverized stone	
5			5	5			
					7.5-8.0		17.1
						Grey/ Brown C-F sand little silt w/ cobble Strong odor	
10			10	10			
				12	EOB	Refusal @ 12ft	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-83**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED: 9/9/2025	GROUNDWATER TABLE DEPTH:	
INSPECTOR: James Blind	DATE COMPLETED: 9/9/2025	0 Hr.	24 Hr. Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0							
			0		3-3.5	0-1 Asphalt	0
						1-5 Brown C-F Sand trace silt pulverized stone	
5			5	5			
					6-6.5		12.1
						7-10 Brown/ Grey C-F Sand trace silt wet/ pulverized stone	
10			10	10			
					13.5-14.0		
						Brown/ Grey C-F Sand w/ gravel Litlle silt	
						Pulverized stone some redox features	
						Strong Odor	
15					EOB	Refusal @ 14ft	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _____

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-84**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED: 9/9/2025	GROUNDWATER TABLE DEPTH:	
INSPECTOR: James Blind	DATE COMPLETED: 9/9/2025	0 Hr.	24 Hr. Date

DEPTH (ft) 0	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
			0		2-2.5	0-1 Asphalt	0
						1-5 Brown C-F Sand trace silt pulverized stone	
5			5	5			
					8-8.5		8
						7-10 Brown C-F Sand trace silt wet/ pulverized stone	
						Redox features	
10			10	10			
					12.5-13		
						Brown/ Grey C-F Sand w/ gravel Litlle silt	4.2
						Pulverized stone some redox features	
15				13	EOB	Refusal @ 13ft	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _____

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-85**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	9/9/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	9/9/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0		4.5-5	0-1 Asphalt	0
						1-5 Brown C-F Sand trace silt pulverized stone	
5			5	5			
					7-7.5		12.1
						Grey /Brown C-F Sand trace silt wet/ pulverized stone	
10			10	10			
					11-11.5		
						Grey C-F Sand little silt wet	
15			15	15			
					16.5-7	15-19 Grey Sand C-F some silt/ wet	
20				20	EOB	Refusal @ 19ft	
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _____

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-86**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	9/9/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	9/9/2025	0 Hr. ___ 24 Hr. ___ Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0		4-4.5	0-1 Asphalt	0
						1-5 Brown C-F Sand trace silt some gravel	
5			5	5			
					6.5-7	Brown C-F sand pulverized stone / cobble	0
				8	EOB	Refusal @ 8ft	
10							
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-87**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	9/9/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	9/9/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0							
			0		3-3.5	0-1 Asphalt	0
						1-5 Brown C-F Sand trace silt pulverized stone	
5			5	5			
					6-6.5		0
						Grey /Brown C-F Sand trace silt wet/ pulverized stone	
10			10	10			
					14-14.5		0
						Grey C-F Sand little silt wet/ pulverized stone	
15			15	15	EOB	Refusal @ 15ft	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _____

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-88**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	9/10/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	9/10/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0		4.5-5	0-1 Asphalt	0
						1-5 Brown C-F Sand trace silt / roots/ pulverized stone	
5			5	5			
					6.5-7		2.3
						Grey /Brown C-F Sand trace silt wet/ pulverized stone	
10			10	10			
					13.5-14	10-12 Brown/ Grey C-F Sand little silt cobble	0
						12-14 Grey C-F Sand little silt wet/ pulverized stone	
				14.5	EOB		
15						Refusal @ 14ft	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _____

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-89**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	9/10/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	9/10/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0		2.5-3	0-1 Asphalt	0
						1-5 Brown C-F Sand trace silt / roots/ pulverized stone	
5			5	5			
					6.5-7		2.3
						Grey /Brown C-F Sand trace silt wet/ pulverized stone some gravel	
10			10	10			
					12.5-13		0
						10-15 Grey C-F Sand little silt wet/ pulverized stone	
15				15	EOB	Refusal @ 15ft	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _____

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-90**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	9/10/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	9/10/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0							
			0		3.5-4	0-1 Asphalt	0.3
						1-5 Brown C-F Sand trace silt / pulverized stone cobble	
5			5	5			
					6.5-7		16
						5-7 Black/Brown Sand mix aspalt trace silt	
						7-10 Brown/Grey C-F Sand little silt /wet	
10			10	10			
					13-13.5	Brown/Grey C-F Sand Pulverized stone strong odor	
							11.2
15				15	EOB	Refusal @ 15ft	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-91**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	9/10/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	9/10/2025	0 Hr. | 24 Hr. | Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0		2-2.5	0-1 Asphalt	2.6
						1-5 Brown C-F Sand trace silt / pulverized stone cobble	
5			5	5			
					5.5-6		14.3
						Grey /Dark Brown C-F Sand trace silt / pulverized stone some gravel	
				9		Strong Odor	
10					EOB	Refusal @ 9ft	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

SESI CONSULTING ENGINEERS

PROJECT NAME:	14228	GEOPROBE NO.	**SB-92**
LOCATION:	White Plains, NY	JOB NO. 14228	
METHOD:	DP	GROUND ELEVATION:	
GEOPROBE BY: Arcco	DATE STARTED:	9/10/2025	GROUNDWATER TABLE DEPTH:
INSPECTOR: James Blind	DATE COMPLETED:	9/10/2025	0 Hr. / 24 Hr. / Date

DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH FROM (ft)	DEPTH TO (ft)	ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0			0		3.5-4	0-1 Asphalt	2.6
						1-5 Brown C-F Sand trace silt / pulverized stone cobble	
5			5	5			
					7-7.5		14.3
				8	EOB	5-7 Grey /Brown C-F Sand trace silt / pulverized stone some gravel	
						7-8 Black C-F Sand little silt strong odor pulverized stone	
10						Refusal @ 8ft	
15							
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1⅜ in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE #

Appendix E:

Health and Safety Plan

SESI
CONSULTING ENGINEERS

Geotechnical
Environmental
Site Civil

959 Route 46E, Fl 3, Ste 300
Parsippany, NJ 07054
973.808.9050
www.sesi.org

Site Specific Health and Safety Plan

For

EAST POST ROAD GARAGE SITE

WESTCHESTER COUNTY, WHITE PLAINS, NEW YORK

Prepared for:

LC Post Road Garage LLC, LC Post Road Garage Holdings LLC, 34 EPR, LLC and East Post Road LLC
May 2026

SESI Project No:
14228

Table of Contents

LIST OF ACRONYMS i
1.0 PROJECT DESCRIPTION 1
1.1 OBJECTIVE 1
1.2 SITE AND FACILITY DESCRIPTION 1
1.3 POLICY STATEMENT 1
1.4 REFERENCES 2
1.5 DEFINITIONS 2
2.0 PROJECT SCOPE OF WORK 3
3.0 ROLES AND RESPONSIBILITIES 3
3.1 ALL PERSONNEL 3
3.2 KEY SAFETY PERSONNEL 4
3.2.1 PROJECT SAFETY OFFICER 4
3.2.2 PROJECT MANAGER (PM) 4
3.2.3 HEALTH AND SAFETY MANAGER (HSM) 4
3.2.4 SITE SAFETY OFFICER (SSO) 4
3.2.5 FIELD SUPERVISOR (FS) 5
3.3 SUBCONTRACTORS 5
3.4 STOP WORK AUTHORITY 6
3.5 ALL ON-SITE PERSONNEL 6
3.6 VISITORS 6
4.0 PERSONAL PROTECTIVE EQUIPMENT 7
4.1 LEVELS OF PROTECTION 7
4.1.1 LEVEL D PROTECTION 7
4.1.2 MODIFIED LEVEL D PROTECTION 7
4.1.3 LEVEL C PROTECTION 8
4.2 SELECTION OF PPE 8
4.3 SITE RESPIRATOR PROTECTION PROGRAM 8
4.4 USING PPE 9
4.4.1 DONNING PROCEDURES 9
4.4.2 DOFFING PROCEDURES 9
4.5 SELECTION MATRIX 10
5.0 AIR AND NOISE MONITORING 10
5.1 AIR MONITORING 10
5.2 NOISE MONITORING 11

5.3 MONITORING EQUIPMENT MAINTENANCE AND CALIBRATION....11
5.4 ACTION LEVELS....12
6.0 WORK ZONES AND DECONTAMINATION....13
6.1 WORK ZONES....13
6.1.1 AUTHORIZATION TO ENTER....13
6.1.2 SITE ORIENTATION AND HAZARD BRIEFING....13
6.1.3 CERTIFICATION DOCUMENTS....13
6.1.4 ENTRY LOG....14
6.1.5 ENTRY REQUIREMENTS....14
6.1.6 EMERGENCY ENTRANCE AND EXIT....14
6.1.7 CONTAMINATION CONTROL ZONES....14
6.1.8 EXCLUSION ZONE (EZ)....14
6.1.9 CONTAMINATION REDUCTION ZONE....14
6.1.10 SUPPORT ZONE (SZ)....15
6.1.11 POSTING....15
6.2 DECONTAMINATION....15
6.2.1 PERSONNEL DECONTAMINATION....15
6.2.2 EQUIPMENT DECONTAMINATION....15
6.2.3 PERSONAL PROTECTIVE EQUIPMENT DECONTAMINATION....15
7.0 TRAINING AND MEDICAL SURVEILLANCE....16
7.1 TRAINING....16
7.1.1 GENERAL....16
7.1.2 BASIC 40-HOUR COURSE....16
7.1.3 SUPERVISOR COURSE....16
7.1.4 SITE-SPECIFIC TRAINING....17
7.1.5 DAILY SAFETY MEETINGS....17
7.1.6 FIRST AID AND CPR....17
7.2 MEDICAL SURVEILLANCE....17
7.2.1 MEDICAL EXAMINATION....17
7.2.2 PRE-PLACEMENT MEDICAL EXAMINATION....17
7.2.3 OTHER MEDICAL EXAMINATIONS....18
7.2.4 PERIODIC EXAM....18
7.2.5 MEDICAL RESTRICTION....18
8.0 GENERAL SAFETY PRACTICES....18
8.1 GENERAL SAFETY RULES....18

8.2 BUDDY SYSTEM 19
8.3 HEAT STRESS 20
8.4 HEAT STRESS SAFETY PRECAUTIONS 22
8.5 COLD STRESS 23
8.6 SAFETY PRECAUTIONS FOR COLD STRESS PREVENTION 24
8.7 SAFE WORK PROCEDURES 25
8.8 BIOLOGICAL HAZARDS 25
8.8.1 TICK BORNE DISEASES 25
8.8.2 POISONOUS PLANTS 26
8.8.3 SNAKES 27
8.8.4 SPIDERS 27
8.9 NOISE 27
8.10 SPILL CONTROL 28
8.11 SANITATION 28
8.11.1 BREAK AREA 28
8.11.2 POTABLE WATER 28
8.11.3 SANITARY FACILITIES 29
8.11.4 LAVATORY 29
8.12 EMERGENCY EQUIPMENT 29
8.13 LOCKOUT/TAGOUT PROCEDURES 29
8.14 ELECTRICAL SAFETY 30
8.15 LIFTING SAFETY 30
8.16 LADDER SAFETY 31
8.17 TRAFFIC SAFETY 32
9.0 SITE-SPECIFIC HAZARDS AND CONTROL MEASURES 33
9.1 EVALUATION OF HAZARDS 33
9.1.1 HAZARD CHARACTERISTICS 33
9.1.2 POTENTIAL HEALTH AND SAFETY HAZARDS 33
9.2 FIELD ACTIVITIES, HAZARDS AND CONTROL PROCEDURES 34
9.2.1 MOBILIZATION/CONSTRUCTION STAKEOUT 34
9.2.2 DEMOLITION/SITE-CLEARING 35
9.2.3 EXCAVATION AND CUT/FILL OPERATIONS 36
9.2.3.1 EXCAVATION TRENCHING 36
9.2.3.2 HEAVY EQUIPMENT OPERATION 37
9.2.3.3 DISTURBANCE/HANDLING OF CONTAMINATED MATERIAL 38

9.2.4 DRILLING/SUBSURFACE INTRUSION ACTIVITIES....39
9.2.5 SUBSURFACE CHEMICAL SAMPLE/COLLECTION ANALYSIS....43
9.2.6 UST CLOSURE....44
9.2.6.1 WORKING IN CONFINED SPACES....44
9.2.6.2 WORKING WITH COMPRESSED AIR....45
9.2.7 DECONTAMINATION....45
9.2.8 DEMOBILIZATION....45
9.3 CHEMICAL HAZARDS....46
10.0 EMERGENCY PROCEDURES....51
10.1 GENERAL....51
10.2 EMERGENCY RESPONSE....51
10.2.1 FIRE....51
10.2.2 CONTAMINANT RELEASE....52
10.3 MEDICAL EMERGENCY....52
10.3.1 EMERGENCY CARE STEPS....52
10.4 FIRST AID GENERAL....53
10.4.1 FIRST AID—INHALATION....53
10.4.2 FIRST AID—INGESTION....53
10.4.3 FIRST AID—SKIN CONTACT....53
10.4.4 FIRST AID—EYE CONTACT....53
10.5 REPORTING INJURIES, ILLNESSES, AND SAFETY INCIDENTS....53
10.6 EMERGENCY INFORMATION....54
10.6.1 DIRECTIONS TO HOSPITAL....54
11.0 LOGS, REPORTS, AND RECORDKEEPING....56
11.1 HASP AND FIELD CHANGE REPORT....56
11.2 MEDICAL AND TRAINING RECORDS....56
11.3 EXPOSURE RECORDS....56
11.4 ACCIDENT/INCIDENT REPORT....57
11.5 OSHA FORM 200....57
11.6 ON-SITE HEALTH AND SAFETY FIELD LOGBOOK....57
11.7 MATERIAL DATA SAFETY SHEETS....57
12.0 COVID RESPONSE ACTION PLAN....57

FIGURES

FIGURE 10.1 WHITE PLAINS HOSPITAL, WHITE PLAINS, NY

TABLES

TABLE 3.1 KEY SAFETY PERSONNEL
TABLE 4.1 PPE SELECTION MATRIX
TABLE 5.1 AIRBORNE CONTAMINANT ACTION LEVELS
TABLE 8.1 WORK/REST SCHEDULE
TABLE 8.2 WIND CHILL TEMPERATURE CHART
TABLE 8.3 VOLTAGE VERSUS REQIRED CLEARNACE
TABLE 9.1 LIST OF PRIMARY CONTAMINANTS
TABLE 10.1 EMERGENCY CONTACTS

ATTACHMENTS

ATTACHMENT 1 AIR MONITORING LOG
ATTACHMENT 2 OSHA POSTER
ATTACHMENT 3 HASP FIELD CHANGE REQUEST FORM
ATTACHMENT 4 ACCIDENT/INCIDENT REPORT
ATTACHMENT 5 SIGNATORY PAGE
ATTACHMENT 6 MATERIAL SAFETY DATA SHEETS

Disclaimer: This Health and Safety Plan (HASP) is based upon information provided [and, if applicable, conditions discovered during a site visit], and is limited by the project scope.

The HASP should be periodically reviewed and updated based on a number of factors, including but not limited to: (1) changes in applicable governmental requirements; (2) changes in procedures at the site; and (3) site conditions which were unknown to SESI Consulting Engineers (SESI) as of the time the HASP was prepared.

This HASP has been prepared for the sole and exclusive use of Client listed above, and may not be relied upon by any other person without the express written consent and authorization of SESI.

SITE-SPECIFIC HEALTH AND SAFETY PLAN

For

EAST POST ROAD GARAGE SITE

WESTCHESTER COUNTY, WHITE PLAINS, NEW YORK

Prepared by: _____ Date: May 20, 2026

_____

Andrew Schweitzer, PE
SESI- Project Manager

Approved by: _____ Date: TBD

_____

Andrew Schweitzer, PE
SESI- Project Manager

LIST OF ACRONYMS

Acronym	Definition
ACGIH	American Conference of Governmental Industrial Hygienists
COC	Contaminants(s) of Concern
CRZ	Contamination Reduction Zone
EMS	Emergency Medical Services
EZ	Exclusion Zone
FS	Field Supervisor
GFCI	Ground Fault Circuit Interrupter
HASP	Health and Safety Plan
HSM	Health and Safety Manager
LEL	Lower Explosive Limit
MSDS	Material Safety Data Sheet
NIOSH	National Institute for Occupational Safety and Health
NRR	Noise Reduction Rating
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyls
PEL	Permissible Exposure Limit
PFD	Personal Flotation Device
PID	Photoionization Detector
PM	Project Manager
PO	Project Officer
PPE	Personal Protective Equipment
PVC	Polyvinyl Chloride
SESI	SESI Consulting Engineers
SSO	Site Safety Officer
SVOC	Semi-Volatile Organic Compound
SZ	Support Zone
TLV	Threshold Limit Value
USCG	United States Coast Guard

Acronym	Definition
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VOC	Volatile Organic Compound

1.0 PROJECT DESCRIPTION

1.1 OBJECTIVE

The objective of this Health and Safety Plan (HASP) is to provide a mechanism for establishing safe working conditions during activities at the East Post Road Garage Site, which consists of the tax parcels 130.27-2-5, 130.27-2-4, 130.27-2-2.1, a portion of 125.83-7-1.1, and the discontinued portion of Brookfield Street north of East Post Road on the White Plains Tax Map (the Site). The safety organization, procedures, and protective equipment have been established based on an analysis of potential physical, chemical, and biological hazards. Specific hazard control methodologies have been evaluated and selected to minimize the potential of injury, illness, or other hazardous incidents.

The HASP was written to meet the requirements of all applicable Federal, State, and local health and safety regulations, including 29 CFR 1910.120. The HASP is based on current knowledge regarding the specific chemical and physical hazards that are known or anticipated at the Site. This HASP is a dynamic document, for which changes and/or revisions may be realized as changes in scope and/or Site conditions are encountered. Should revised documents be produced, said revised documents will refer to the specific changes and why they were made.

1.2 SITE AND FACILITY DESCRIPTION

The Site is located in the County of Westchester, White Plains, New York and is identified as 130.27-2-5, 130.27-2-4, 130.27-2-2.1, a portion of 125.83-7-1.1, and the discontinued portion of Brookfield Street north of East Post Road on the White Plains Tax Map. The Site consists of six (6) parcels totaling 2.34 acres of land. The Site is bound to the north by the rest of the WPHA property (residential), to the south by East Post Road followed by White Plains Hospital, and to the east by Winchester Street followed by commercial properties, and to the west by commercial ground floor properties with upper floor apartments

The Site is located in a commercial and residential area. The Site is bound to the east by Winchester Street followed by commercial properties. The Site is bound to the south by East Post Road followed by White Plains Hospital facilities, to the west by various commercial properties and to the north by the rest of the White Plains Housing Authority (residential). The closest surface water body is the Bronx Rive, located approximately 0.37 miles northwest of the Site. The Site topography is relatively level with regional topography decreasing to the north.

1.3 POLICY STATEMENT

The policy of SESI Consulting Engineers (SESI) is to provide a safe and healthful work environment. No aspect of operations is of greater importance than injury and illness prevention. A fundamental principle of safety management is that all injuries, illnesses, and incidents are preventable. SESI will take every reasonable step to eliminate or control hazards in order to minimize the possibility of injury, illness, or incident.

This HASP prescribes the procedures that must be followed by SESI personnel during activities at the Site. Operational changes that could affect the health and safety of personnel, the community, or the environment will not be made without the prior approval of the Project Manager (PM) and the Health and Safety Manager (HSM). This document will be reviewed periodically by

the HSM to ensure that it is current and technically correct. Any changes in Site conditions and/or the scope of work will require a review and modification to this HASP. Such changes will be completed in the form of an addendum or a revision to the plan.

The provisions of this plan are mandatory for all SESI personnel and are advisory for all contractors, and subcontractors assigned to the project. ***Subcontractors will be responsible for preparing their own Site-specific HASPs that meet the basic requirements outlined in this HASP.*** All visitors to SESI work areas at the Site must abide by the requirements of this plan.

1.4 REFERENCES

This HASP complies with applicable Occupational Safety and Health Administration (OSHA) regulations, United States Environmental Protection Agency (USEPA) regulations, and SESI health and safety policies and procedures. This plan follows the guidelines established in the following:

- *Standard Operating Safety Guides*, USEPA (Publication 9285.1-03, June 1992).
- *Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities*, NIOSH, OSHA, USCG, USEPA (86116, October 1985).
- *Title 29 of the Code of Federal Regulations* (CFR), Part 1910.
- *Title 29 of the Code of Federal Regulations* (CFR), Part 1926.
- *Pocket Guide to Chemical Hazards*, DHHS, PHS, CDC, NIOSH (2004).
- *Threshold Limit Values*, ACGIH (2005).
- *Guide to Occupational Exposure Values*, ACGIH (2005).
- *Quick Selection Guide to Chemical Protective Clothing*, Forsberg, K. and S.Z. Mansdorf, 2nd Ed. (1993).

1.5 DEFINITIONS

The following definitions (listed alphabetically) are applicable to this HASP:

- *Contamination Reduction Zone (CRZ)* - Area between the exclusion zone and support zone that provides a transition between contaminated and clean areas. Decontamination stations are located in this zone.
- *Exclusion Zone (EZ)* - Any portions of the site where hazardous substances are, or are reasonably suspected to be present, and pose an exposure hazard to on-Site personnel.
- *Incident* - All losses, including first aid cases, injuries, illnesses, spills/leaks, equipment and property damage, motor vehicle accidents, regulatory violations, fires, and business interruptions.
- *On-Site Personnel* - All SESI and subcontractors involved with the project.
- *Project* - All on-site work performed under the scope of work.
- *Site* - The area described in Section 1.2, Site and Facility Description, where the work is to be performed by SESI personnel and subcontractors.
- *Support Zone (SZ)* - All areas of the Site except the EZ and CRZ. The SZ surrounds the CRZ and EZ. Support equipment and break areas are located in this zone.

- *Subcontractor* - Includes contractor personnel hired by SESI.
- *Visitor* - All other personnel, except the on-Site personnel.

Work Area - The portion of the Site where work activities are actively being performed. This area may change daily as work progresses and includes the SZ, CRZ, and EZ. If the work area is located in an area on the Site that is not contaminated, or suspected of being contaminated, the entire work area may be a SZ.

2.0 PROJECT SCOPE OF WORK

This HASP contains information for the following tasks that SESI is anticipated to conduct at the Site. Should additional and/or different tasks be identified, amendments to this HASP will be required to address these changed items.

The scope of work associated with this HASP will include then following as summarized in the RAWP:

- Mobilization;
- Building Demolition
- Waste Characterization Sampling of Contaminated Soil;
- Support of Excavation (SOE) Installation;
- Excavation of Contaminated Soil;
- End Point Chemical Sampling of Soil;
- Installation of a Vapor Barrier for Buildings;
- Groundwater Sampling;
- Decontamination and Demobilization.

The health and safety procedures developed in this HASP will be implemented as applicable for each of these activities.

3.0 ROLES AND RESPONSIBILITIES

3.1 ALL PERSONNEL

All SESI project personnel must adhere to the procedures outlined in this HASP during the performance of their work. Each person is responsible for completing tasks safely and reporting any unsafe acts or conditions to their supervisor. No person may work in a manner that conflicts with these procedures. After due warnings, the PM will dismiss from the site any SESI employee or subcontractor who violates safety procedures.

All SESI project personnel will receive training in accordance with applicable regulations and be familiar with the requirements and procedures contained in this HASP prior to initiating site activities. In addition, all SESI personnel will attend an initial hazard briefing prior to beginning work at the Site.

The roles of key safety personnel and subcontractors are outlined in the following sections. Key project personnel and contacts are summarized in **Table 3.1**.

3.2 KEY SAFETY PERSONNEL

3.2.1 PROJECT SAFETY OFFICER

The PO is responsible for providing resources to assure project activities are completed in accordance with this HASP, and for meeting all regulatory and contractual requirements.

3.2.2 PROJECT MANAGER (PM)

The PM is responsible for verifying that project activities are completed in accordance with the requirements of this HASP. The PM is responsible for confirming that the Field Supervisor (FS) has the equipment, materials, and qualified personnel to fully implement the safety requirements of this HASP, and/or that subcontractors assigned to this project meet the requirements established by SESI. It is also the responsibility of the PM to:

- Consult with the HSM on Site health and safety issues;
- Verify that subcontractors meet health and safety requirements prior to commencing work;
- Verify that all incidents are thoroughly investigated;
- Approve, in writing, addenda or modifications of this HASP; and
- Suspend work or modify work practices, as necessary, for personal safety, protection of property, and regulatory compliance.

3.2.3 HEALTH AND SAFETY MANAGER (HSM)

The HSM or his designee has overall responsibility for the technical health and safety aspects of the project, including review and approval of this HASP. Inquiries regarding health and safety procedures, project procedures, and other technical or regulatory issues should be addressed to this individual. The HSM or his designee must approve changes or addenda to this HASP.

3.2.4 SITE SAFETY OFFICER (SSO)

The SSO is responsible for field health and safety issues, including the execution of this HASP. Questions in the field regarding health and safety procedures, project procedures, and other technical or regulatory issues should be addressed to this individual. The SSO will advise the PM on health and safety issues and will establish and coordinate the project air-monitoring program if one is deemed necessary (see Section 5.1, Air Monitoring). The SSO is the primary Site contact on health and safety matters. It is the responsibility of the SSO to:

- Provide on-Site technical assistance, if necessary;
- Participate in all accident/incident reports and ensure that they are reported to the HSM, client, and PM within 24 hours;
- Coordinate Site and personal air monitoring as required, including equipment maintenance and calibration;
- Conduct Site safety orientation training and safety meetings;
- Verify that project personnel have received the required physical examinations and medical certifications;
- Review Site activities with respect to compliance with this HASP;

- Maintain required health and safety documents and records; and
- Assist the FS in instructing field personnel on project hazards and protective procedures.

3.2.5 FIELD SUPERVISOR (FS)

The FS is responsible for implementing this HASP, including communicating requirements to on-Site personnel and subcontractors. The FS will be responsible for informing the PM of changes in the work plan, procedures, or Site conditions so that those changes may be addressed in this HASP. Other responsibilities are to:

- Consult with the SSO on Site health and safety issues;
- Stop work, as necessary, for personal safety, protection of property, and regulatory compliance;
- Obtain a Site map and determine and post routes to medical facilities and emergency telephone numbers;
- Notify local public emergency representatives (as appropriate) of the nature of the Site operations, and post their telephone numbers (i.e., local fire department personnel who would respond for a confined space rescue);
- Observe on-Site project personnel for signs of ill health effects;
- Investigate and report any incidents to the SSO;
- Verify that all on-Site personnel have had applicable training;
- Verify that on-Site personnel are informed of the physical, chemical, and biological hazards associated with the Site activities, and the procedures and protective equipment necessary to control the hazards; and

Issue/obtain any required work permits (hot work, confined space, etc.)

3.3 SUBCONTRACTORS

Subcontractors and their personnel must understand and comply with applicable regulations and Site requirements established in this HASP. Subcontractors will prepare their own Site-specific HASP that must be consistent with the requirements of this HASP.

All subcontractor personnel will receive training in accordance with applicable regulations and be familiar with the requirements and procedures contained in this HASP prior to initiating Site activities. All subcontractor personnel will attend an initial hazard briefing prior to beginning work at the Site. Additionally, on-Site subcontractor personnel must conduct daily Site safety meetings.

Subcontractors must designate individuals to function as the PM, HSM, SSO, and FS. In some firms the HSM to be carried out by the PM. This is acceptable provided the PM has the required knowledge, training, and experience to properly address all hazards associated with the work, and to prepare, approve, and oversee the execution of the Site-specific HASP. A subcontractor may designate the same person to perform the duties of both the SSO and the FS. However, depending on the level of complexity of a contractor's scope of work, it may be infeasible for one person to perform both functions satisfactorily.

3.4 STOP WORK AUTHORITY

Every SESI employee and subcontractor is empowered, expected, and has the responsibility to stop the work of another co-worker if the working conditions or behaviors are considered unsafe.

3.5 ALL ON-SITE PERSONNEL

All on-Site SESI personnel (including SESI subcontractors) must read and acknowledge their understanding of their respective HASPs before commencing work and abide by the requirements of the plans. All on-Site SESI personnel shall sign their HASP Acknowledgement Form following their review of their HASP.

All SESI project personnel will receive training in accordance with applicable regulations and be familiar with the requirements and procedures contained in this HASP prior to initiating Site activities. In addition, all on-Site personnel will attend an initial hazard briefing provided by the SSO prior to beginning work at the Site and conduct daily safety meetings thereafter.

On-Site personnel will immediately report the following to the FS or SSO:

- Personal injuries and illnesses no matter how minor;
- Unexpected or uncontrolled release of chemical substances;
- Symptoms of chemical exposure;
- Unsafe or hazardous situations;
- Unsafe or malfunctioning equipment;
- Changes in site conditions that may affect the health and safety of project personnel;
- Damage to equipment or property; and

Situations or activities for which they are not properly trained.

3.6 VISITORS

All SESI personnel and subcontractors visiting the Site must check in with the FS. Visitors will be cautioned to avoid skin contact with surfaces, soils, groundwater, or other materials that may impacted or be suspected to be impacted by contaminants of concern (COCs).

Visitors requesting to observe work at the site must don appropriate personal protective equipment (PPE) prior to entry to the work area and must have the appropriate training and medical clearances to do so. If respiratory protective devices are necessary, visitors who wish to enter the work area must have been respirator-trained and fit tested for a respirator within the past 12 months.

Table 3.1 – Key Safety Personnel

SESI Personnel		
Role	**Name**	**Telephone No.**

Project Principal	Fuad Dahan, P.E., PhD	973-808-9050 x249
Project Manager (PM)	Andrew Schweitzer, PE	973-808-9050 x295
Principal Engineer	Andrew Schweitzer, PE	973-808-9050 x249
Remedial Action Project Manager	Andrew Schweitzer, PE	973-808-9050 x238
Field Team Leader	Brett Cheadle	973-808-9050 x272
Quality Assurance Officer	Andrew Schweitzer, PE	973-808-9050 x238
Field Personnel	TBD	

4.0 PERSONAL PROTECTIVE EQUIPMENT

4.1 LEVELS OF PROTECTION

PPE is required to safeguard site personnel from various hazards. Varying levels of protection may be required depending on the levels of COCs and the degree of physical hazard. This section presents the various levels of protection and defines the conditions of use for each level. A summary of the levels is presented in **Table 4.1**.

4.1.1 LEVEL D PROTECTION

The minimum level of protection that will be required of project personnel at the site will be Level D, which will be worn when site conditions or air monitoring indicates no inhalation hazard exists. The following equipment will be used:

- Work clothing as prescribed by weather;
- Steel toe work boots, meeting American National Standards Institute (ANSI) Z41;
- Safety glasses or goggles, meeting ANSI Z87;
- Leather work gloves and/or nitrile surgical gloves;
- Hard hat, meeting ANSI Z89, when falling object hazards are present;
- Hearing protection (if noise levels exceed 85 dBA, then hearing protection with a USEPA NRR of at least 20 dBA must be used); and

Personal floatation device (PFD) if working on or near the water.

4.1.2 MODIFIED LEVEL D PROTECTION

Modified Level D will be used when airborne contaminants are not present at levels of concern, but site activities present an increased potential for skin contact with contaminated materials. Modified Level D consists of:

- Nitrile gloves worn over nitrile surgical gloves;

- Latex/polyvinyl chloride (PVC) overboots when contact with COC-impacted media is anticipated;
- Steel toe work boots, meeting ANSI Z41;
- Safety glasses or goggles, meeting ANSI Z87;
- Face shield in addition to safety glasses or goggles when projectiles or splash hazards exist (e.g. during Power Washing activities);
- Hard hat, meeting ANSI Z89, when falling object hazards are present;
- Hearing protection (if noise levels exceed 85 dBA, then hearing protection with a USEPA NRR of at least 20 dBA must be used);
- Tyvek® suit (polyethylene coated Tyvek® suits for handling liquids) when body contact with COC-impacted media is anticipated; and
- PFD if working on or near the water.

4.1.3 LEVEL C PROTECTION

Level C protection will be required when the airborne concentration of COC reaches one-half of the OSHA Permissible Exposure Limit or ACGIH TLV. The following equipment will be used for Level C protection:

- Full-face, air-purifying respirator with combination organic vapor/HEPA cartridges;
- Polyethylene-coated Tyvek® suit, with ankles and cuffs taped to boots and gloves;
- Nitrile gloves worn over nitrile surgical gloves;
- Steel toe work boots, meeting ANSI Z41;
- Chemical-resistant boots with steel toes or latex/PVC overboots over steel toe boots;
- Hard hat, meeting ANSI Z89;
- Hearing protection (if noise levels exceed 85 dBA, then hearing protection with a USEPA NRR of at least 20 dBA must be used); and
- PFD if working on or near the water.

4.2 SELECTION OF PPE

Equipment for personal protection will be selected based on the potential for contact, site conditions, ambient air quality, and the judgment of supervising Site personnel and health and safety professionals. The PPE used will be chosen to be effective against the COCs present on the Site.

4.3 SITE RESPIRATOR PROTECTION PROGRAM

Respiratory protection is an integral part of employee health and safety at the Site due to potentially hazardous concentrations of airborne COCs. The Site respiratory protection program will consist of the following (as a minimum):

- All on-Site personnel who may use respiratory protection will have an assigned respirator.
- All on-Site personnel who may use respiratory protection will have been fit tested and trained in the use of a full-face air-purifying respirator within the past 12 months. Documentation of the fit test must be provided to the SSO prior to commencement of work.

- All on-Site personnel who may use respiratory protection must within the past year have been medically certified as being capable of wearing a respirator. Documentation of the medical certification must be provided to the SSO, prior to commencement of Site work.
- Only cleaned, maintained, NIOSH-approved respirators will be used.
- If respirators are used, the respirator cartridge is to be properly disposed of at the end of each work shift, or when load-up or breakthrough occurs.
- Contact lenses are not to be worn when a respirator is worn.
- All on-Site personnel who may use respiratory protection must be clean-shaven. Mustaches and sideburns are permitted, but they must not touch the sealing surface of the respirator.
- Respirators will be inspected, and a negative pressure test performed prior to each use.

After each use, the respirator will be wiped with a disinfectant, cleansing wipe. When used, the respirator will be thoroughly cleaned at the end of the work shift. The respirator will be stored in a clean plastic bag, away from direct sunlight in a clean, dry location, in a manner that will not distort the face piece.

4.4 USING PPE

Depending upon the level of protection selected, specific donning and doffing procedures may be required. The procedures presented in this section are mandatory if Modified Level D or Level C PPE is used. All personnel entering the EZ must put on the required PPE in accordance with the requirements of this HASP. When leaving the EZ, PPE will be removed in accordance with the procedures listed, to minimize the spread of COCs.

4.4.1 DONNING PROCEDURES

These procedures are mandatory only if Modified Level D or Level C PPE is used on the Site:

- Remove bulky outerwear. Remove street clothes and store in clean location;
- Put on work clothes or coveralls;
- Put on the required chemical protective coveralls;
- Put on the required chemical protective boots or boot covers;
- Tape the legs of the coveralls to the boots with duct tape;
- Put on the required chemical protective gloves;
- Tape the wrists of the protective coveralls to the gloves;
- Don the required respirator and perform appropriate fit check (Level C);
- Put hood or head covering over-head and respirator straps and tape hood to facepiece (Level C); and
- Don remaining PPE, such as safety glasses or goggles and hard hat.

When these procedures are instituted, one person must remain outside the work area to ensure that each person entering has the proper protective equipment.

4.4.2 DOFFING PROCEDURES

The following procedures are only mandatory if Modified Level D or Level C PPE is required for the Site. Whenever a person leaves the work area, the following decontamination sequence will be followed:

- Upon entering the CRZ, rinse contaminated materials from the boots or remove contaminated boot covers;
- Clean reusable protective equipment;
- Remove protective garments, equipment, and respirator (Level C). All disposable clothing should be placed in plastic bags, which are labeled with contaminated waste labels;
- Wash hands, face, and neck (or shower if necessary);
- Proceed to clean area and dress in clean clothing; and
- Clean and disinfect respirator for next use.

All disposable equipment, garments, and PPE must be bagged in plastic bags, labeled for disposal. See Section 6.2, Decontamination, for detailed information on decontamination stations.

4.5 SELECTION MATRIX

The level of personal protection selected will be based on air monitoring of the work environment and an assessment by the FS and SSO of the potential for skin contact with COCs. The PPE selection matrix is presented in **Table 4.1** below. This matrix is based on information available at the time this plan was written. The Airborne Contaminant Action Levels in **Table 5.1**, Airborne Contaminant Action Levels, should be used to verify that the PPE prescribed in these matrices is appropriate.

Table 4.1 – PPE Selection Matrix

Task	Anticipated Level of Protection
Mobilization	Level D
Subsurface Intrusive Activities (Excavation, Drilling)	Modified Level D/Level C
Earthwork/Grading	Level D
Chemical Sampling / Delineation	Modified Level D/Level C
Decontamination	Modified Level D
Demobilization	Level D

5.0 AIR AND NOISE MONITORING

5.1 AIR MONITORING

Air monitoring, sampling, and testing will be conducted to determine employee exposure to airborne constituents. The monitoring results will dictate work procedures and the selection of PPE. The SESI SSO will be responsible for defining appropriate air monitoring procedures and for utilizing the air monitoring results to determine appropriate procedures and PPE for project personnel. Air monitoring results should be recorded in field notebooks or on an air monitoring log (see Attachment 1 for a copy of the Air Monitoring Log). Any deviations from the procedures listed here should be documented and explained in the Air Monitoring Log.

The monitoring devices to be used are a PDR1000 particulate monitor (or equivalent) and a Rae Systems MultiRAE detector (PID with a 11.7 eV lamp/oxygen/LEL/hydrogen sulfide sensors). Colorimetric detector tubes may be utilized to estimate airborne concentrations of benzene and should be onsite during any activities that may result in elevated PID readings including drilling, excavating, and groundwater sampling.

Air monitoring will be conducted continuously with the LEL/Oxygen meter during drilling in areas where flammable vapors or gases are suspect. All work activity must stop where tests indicate the concentration of flammable vapors exceeds 10% of the LEL at a location with a potential ignition source. Such an area must be ventilated to reduce the concentration to an acceptable level.

5.2 NOISE MONITORING

Noise monitoring may be conducted as required. Hearing protection is mandatory for all employees in noise hazardous areas, such as around heavy equipment. As a general rule, sound levels that cause speech interference at normal conversation distance should require the use of hearing protection.

5.3 MONITORING EQUIPMENT MAINTENANCE AND CALIBRATION

All direct-reading instrumentation calibrations should be conducted under the approximate environmental conditions the instrument will be used. Instruments must be calibrated before and after use, noting the reading(s) and any adjustments that are necessary. All air monitoring equipment calibrations, including the standard used for calibration, must be documented on a calibration log or in the field notebook. All completed health and safety documentation/forms must be reviewed by the SSO and maintained by the FS.

All air monitoring equipment will be maintained and calibrated in accordance with the specific manufacturer's procedures. Preventive maintenance and repairs will be conducted in accordance with the respective manufacturer's procedures. When applicable, only manufacturer-trained and/or authorized personnel will be allowed to perform instrument repairs or preventive maintenance.

If an instrument is found to be inoperative or suspected of giving erroneous readings, the SSO must be responsible for immediately removing the instrument from service and obtaining a replacement unit. If the instrument is essential for safe operation during a specific activity, that

activity must cease until an appropriate replacement unit is obtained. The SSO will be responsible for ensuring a replacement unit is obtained and/or repairs are initiated on the defective equipment.

5.4 ACTION LEVELS

Table 5.1 below presents airborne contaminant action levels that will be used to determine the procedures and protective equipment necessary based on conditions as measured at the Site.

Table 5.1 – Airborne Contaminant Action Levels

Parameter	Reading	Action
Total Hydrocarbons	0 ppm to ≤ 1 ppm	Normal operations; continue hourly breathing zone monitoring
	> 1 ppm to 5 ppm	Increase monitoring frequency to every 15 minutes and use benzene detector tube to screen for the presence of benzene
	≥ 5 ppm to ≤ 50 ppm	Upgrade to Level C PPE; continue screening for benzene
	> 50 ppm	Stop work; investigate cause of reading
	At any reading > 5 ppm	Monitor perimeter per CAMP
Benzene	≥ 1 ppm to 5 ppm	Upgrade to Level C PPE
	> 5 ppm	Stop work; investigate cause of reading
Dust	0 to .05 mg/m3	Normal operations
	0.05 to 0.1 mg/m3	Begin soil wetting procedure (Level C protection would be needed beyond this point)
	> 0.15 mg/m3	Stop work, fully implement dust control plan

Parameter	Reading	Action
Oxygen	≤ 19.5%	Stop work, evacuate confined spaces/work area, investigate cause of reading, and ventilate area
	> 19.5% to < 23.5%	Normal operations
	≥ 23.5%	Stop work, evacuate confined spaces/work area, investigate cause of reading, and ventilate area
Carbon Monoxide	0 ppm to ≤ 20 ppm	Normal operations
	> 20 ppm	Stop work, evacuate confined spaces/work area, investigate cause of reading, and ventilate area
Hydrogen Sulfide	0 ppm to ≤ 5 ppm	Normal operations
	> 5 ppm	Stop work, evacuate confined spaces/work area, investigate cause of reading, and ventilate area
Flammable Vapors (LEL)	< 10% LEL	Normal operations
	≥ 10% LEL	Stop work, ventilate area, investigate source of vapors

6.0 WORK ZONES AND DECONTAMINATION

6.1 WORK ZONES

6.1.1 AUTHORIZATION TO ENTER

Only personnel with the appropriate training and medical certifications (if respirators are required) will be allowed to work at the project Site. The FS will maintain a list of authorized persons; only personnel on the authorized persons list will be allowed to enter the Site work areas.

6.1.2 SITE ORIENTATION AND HAZARD BRIEFING

No person will be allowed in the work area during Site operations without first being given a Site orientation and hazard briefing. This orientation will be presented by the FS or SSO and will consist of a review of this HASP. This review must cover the chemical, physical, and biological hazards, protective equipment, safe work procedures, and emergency procedures for the project. Following this initial meeting, daily safety meetings will be held each day before work begins.

All people entering the Site work areas, including visitors, must document their attendance at this briefing, as well as the daily safety meetings on the forms included with this plan.

6.1.3 CERTIFICATION DOCUMENTS

A training and medical file may be established for the project and kept on Site during all Site operations. Specialty training, such as first aid/cardiopulmonary resuscitation (CPR) certificates, as well as current medical clearances for all project field personnel required to wear respirators, will be maintained within that file. All project personnel must provide their training and medical documentation to the SSO prior to starting work.

6.1.4 ENTRY LOG

A log-in/log-out sheet will be maintained at the Site by the FS. Personnel must sign in and out on a log sheet as they enter and leave the work area, and the FS may document entry and exit in the field notebook.

6.1.5 ENTRY REQUIREMENTS

In addition to the authorization, hazard briefing, and certification requirements listed above, no person will be allowed in any SESI work area unless they are wearing the minimum PPE as described in Section 4.0.

6.1.6 EMERGENCY ENTRANCE AND EXIT

People who must enter the work area on an emergency basis will be briefed of the hazards by the FS or SSO. All activities will cease in the event of an emergency. People exiting the work area because of an emergency will gather in a designated safe area for a head count. The FS is responsible for ensuring that all people who entered the work area have exited in the event of an emergency.

6.1.7 CONTAMINATION CONTROL ZONES

Contamination control zones are maintained to prevent the spread of contamination and to prevent unauthorized people from entering hazardous areas.

6.1.8 EXCLUSION ZONE (EZ)

An EZ may consist of a specific work area or may be the entire area of potential contamination. All employees entering an EZ must use the required PPE and must have the appropriate training and medical clearance for hazardous waste work. The EZ is the defined area where there is a possible respiratory and/or contact health hazard. Cones, caution tape, or a posted Site diagram will identify the location of each EZ.

6.1.9 CONTAMINATION REDUCTION ZONE

The CRZ or transition area will be established, if necessary, to perform decontamination of personnel and equipment. All personnel entering or leaving the EZ will pass through this area to prevent any cross-contamination. Tools, equipment, and machinery will be decontaminated in a specific location. The decontamination of all personnel will be performed on Site adjacent to the EZ. Personal protective outer garments and respiratory protection will be removed in the CRZ and prepared for cleaning or disposal. This zone is the only appropriate corridor between the EZ and the support zone discussed below.

6.1.10 SUPPORT ZONE (SZ)

The SZ is a clean area outside the CRZ located to prevent employee exposure to hazardous substances. Eating and drinking will be permitted in the support area only after proper decontamination. Smoking may be permitted in the SZ, subject to Site requirements.

6.1.11 POSTING

Work areas will be prominently marked and delineated using cones, caution tape, or a posted Site diagram.

6.2 DECONTAMINATION

6.2.1 PERSONNEL DECONTAMINATION

All personnel wearing Modified Level D or Level C protective equipment in the EZ must undergo personal decontamination prior to entering the SZ. The personnel decontamination area will consist of the following stations at a minimum:

- *Station 1*: Personnel leaving the contaminated zone will remove the gross contamination from their outer clothing and boots.
- *Station 2*: Personnel will remove their outer garment and gloves and dispose of it in properly labeled containers. Personnel will then decontaminate their hard hats, and boots with an aqueous solution of detergent or other appropriate cleaning solution. These items are then hand carried to the next station.
- *Station 3*: Personnel will thoroughly wash their hands and face before leaving the CRZ. Respirators will be sanitized and then placed in a clean plastic bag.

6.2.2 EQUIPMENT DECONTAMINATION

All vehicles that have entered the EZ will be decontaminated at the decontamination pad prior to leaving the zone. If the level of vehicle contamination is low, decontamination may be limited to rinsing of tires and wheel wells with water. If the vehicle is significantly contaminated, steam cleaning or pressure washing of vehicles and equipment may be required.

6.2.3 PERSONAL PROTECTIVE EQUIPMENT DECONTAMINATION

Where and whenever possible, single-use, external protective clothing must be used for work within the EZ or CRZ. This protective clothing must be disposed of in properly labeled containers. Reusable protective clothing will be rinsed at the Site with detergent and water. The rinsate will be collected for disposal.

When removed from the CRZ, the respirator will be thoroughly cleaned with soap and water. The respirator face piece, straps, valves, and covers must be thoroughly cleaned at the end of each work shift, and ready for use prior to the next shift. Respirator parts may be disinfected with a solution of bleach and water (mixed at 2% bleach by volume), or by using a spray disinfectant.

7.0 TRAINING AND MEDICAL SURVEILLANCE

7.1 TRAINING

7.1.1 GENERAL

All on-Site project personnel who work in areas where they may be exposed to Site contaminants must be trained as required by OSHA Regulation 29 CFR 1910.120 (HAZWOPER). Field employees also must receive a minimum of three (3) days of actual field experience under the direct supervision of a trained, experienced supervisor. Personnel who completed their initial training more than 12 months prior to the start of the project must have completed an eight (8)-hour refresher course within the past 12 months. The FS must have completed an additional eight (8) hours of supervisory training and must have a current first-aid/CPR certificate (See Attachment 2).

7.1.2 BASIC 40-HOUR COURSE

The following is a list of the topics typically covered in a 40-hour HAZWOPER training course:

- General safety procedures;
- Physical hazards (fall protection, noise, heat stress, cold stress);
- Names and job descriptions of key personnel responsible for site health and safety;
- Safety, health, and other hazards typically present at hazardous waste sites;
- Use, application, and limitations of PPE;
- Work practices by which employees can minimize risks from hazards;
- Safe use of engineering controls and equipment on site;
- Medical surveillance requirements;
- Recognition of symptoms and signs which might indicate overexposure to hazards;
- Worker right-to-know (Hazard Communication OSHA 1910.1200);
- Routes of exposure to contaminants;
- Engineering controls and safe work practices;
- Components of a health and safety program and a site-specific HASP;
- Decontamination practices for personnel and equipment;
- Confined-space entry procedures; and
- General emergency response procedures.

7.1.3 SUPERVISOR COURSE

Management and supervisors must receive an additional eight (8) hours of training, which typically includes:

- General Site safety and health procedures;
- PPE programs; and
- Air monitoring techniques

7.1.4 SITE-SPECIFIC TRAINING

Site-specific training will be accomplished by on-Site personnel reading this HASP, and through a thorough site briefing by the PM, FS, or SSO on the contents of this HASP before work begins. The review must include a discussion of the chemical, physical, and biological hazards; the protective equipment and safety procedures; and emergency procedures.

7.1.5 DAILY SAFETY MEETINGS

Daily safety meetings will be held to cover the work to be accomplished, the hazards anticipated, the PPE and procedures required to minimize site hazards, and emergency procedures. The FS or SSO should present these meetings prior to beginning the day's fieldwork. No work will be performed in an EZ before a daily safety meeting has been held. An additional safety meeting must also be held prior to new tasks, or if new hazards are encountered. The daily safety meetings will be logged in the field notebook.

7.1.6 FIRST AID AND CPR

At least one (1) employee current in first aid/CPR will be assigned to the work crew and will be on the Site during operations. Site records will document the presence of this individual. Refresher training in first aid (triennially) and CPR (annually) is required to keep the certificate current. These individuals must also receive training regarding the precautions and protective equipment necessary to protect against exposure to blood-borne pathogens.

7.2 MEDICAL SURVEILLANCE

7.2.1 MEDICAL EXAMINATION

All personnel who are potentially exposed to Site contaminants must participate in a medical surveillance program as defined by OSHA at 29 CFR 1910.120 (f).

7.2.2 PRE-PLACEMENT MEDICAL EXAMINATION

All potentially exposed personnel must have completed a comprehensive medical examination prior to assignment, and periodically thereafter as defined by applicable regulations. The pre-placement and periodic medical examinations typically include the following elements:

- Medical and occupational history questionnaire;
- Physical examination;
- Complete blood count, with differential;
- Liver enzyme profile;
- Chest X-ray, at a frequency determined by the physician;
- Pulmonary function test;
- Audiogram;
- Electrocardiogram for persons older than 45 years of age, or if indicated during the physical examination;
- Drug and alcohol screening, as required by job assignment;
- Visual acuity; and

- Follow-up examinations, at the discretion of the examining physician or the corporate medical director.

The examining physician provides the employee with a letter summarizing his findings and recommendations, confirming the worker's fitness for work and ability to wear a respirator. Documentation of medical clearance will be available for each employee during all project Site work.

Subcontractors will certify that all their employees have successfully completed a physical examination by a qualified physician. The physical examinations must meet the requirements of 29 CFR 1910.120 and 29 CFR 1910.134. Subcontractors will supply copies of the medical examination certificate for each on-site employee.

7.2.3 OTHER MEDICAL EXAMINATIONS

In addition to pre-employment, annual, and exit physicals, personnel may be examined:

- At employee request after known or suspected exposure to toxic or hazardous materials; and
- At the discretion of the SSO, HSM, or occupational physician in anticipation of, or after known or suspected exposure to toxic or hazardous materials.

7.2.4 PERIODIC EXAM

Following the placement examination, all employees must undergo a periodic examination, similar in scope to the placement examination. For employees potentially exposed over 30 days per year, the frequency of periodic examinations will be annual. For employees potentially exposed less than 30 days per year, the frequency for periodic examinations will be 24 months.

7.2.5 MEDICAL RESTRICTION

When the examining physician identifies a need to restrict work activity, the employee's supervisor must communicate the restriction to the employee and the SSO. The terms of the restriction will be discussed with the employee and the supervisor.

8.0 GENERAL SAFETY PRACTICES

8.1 GENERAL SAFETY RULES

General safety rules for site activities include, but are not limited to, the following:

- At least one copy of this HASP must be in a location at the Site that is readily available to personnel, and all project personnel shall review the plan prior to starting work.

- Consume or use food, beverages, chewing gum, and tobacco products only in the SZ or other designated area outside the EZ and CRZ. Cosmetics shall not be applied in the EZ or CRZ.
- Wash hands before eating, drinking, smoking, or using toilet facilities.
- Wear all PPE as required and stop work and replace damaged PPE immediately.
- Secure disposable coveralls, boots, and gloves at the wrists and legs and ensure closure of the suit around the neck.
- Upon skin contact with materials that may be impacted by COCs, remove contaminated clothing and wash the affected area immediately. Contaminated clothing must be changed. Any skin contact with materials potentially impacted by COCs must be reported to the FS or SSO immediately. If needed, medical attention should be sought.
- Practice contamination avoidance. Avoid contact with surfaces either suspected or known to be impacted by COCs, such as standing water, mud, or discolored soil. Equipment must be stored on elevated or protected surfaces to reduce the potential for incidental contamination.
- Remove PPE as required in the CRZ to limit the spread of COC-containing materials.
- At the end of each shift or as required, dispose of all single-use coveralls, soiled gloves, and respirator cartridges in designated receptacles designated for this purpose.
- Removing soil containing Site COCs from protective clothing or equipment with compressed air, shaking, or any other means that disperses contaminants into the air is prohibited.
- Inspect all non-disposable PPE for contamination in the CRZ. Any PPE found to be contaminated must be decontaminated or disposed of appropriately.
- Recognize emergency signals used for evacuation, injury, fire, etc.
- Report all injuries, illnesses, and unsafe conditions or work practices to the FS or SSO.
- Use the “buddy system” during all operations requiring Level C PPE, and when appropriate, during Modified Level D operations.
- Obey all warning signs, tags, and barriers. Do not remove any warnings unless authorized to do so.
- Use, adjust, alter, and repair equipment only if trained and authorized to do so, and in accordance with the manufacturer’s directions.
- Personnel are to perform only tasks for which they have been properly trained and will advise their supervisor if they have been assigned a task for which they are not trained.
- The presence or consumption of alcoholic beverages or illicit drugs during the workday, including breaks, is strictly prohibited. Notify your supervisor if you must take prescription or over-the-counter drugs that indicate they may cause drowsiness or, that you should not operate heavy equipment.
- Remain upwind during site activities whenever possible.

8.2 BUDDY SYSTEM

On-Site personnel must use the buddy system as required by operations. Use of the “buddy system” is required during all operations requiring Level C to Level A PPE, and when appropriate, during Level D operations. Crewmembers must observe each other for signs of chemical exposure, and heat or cold stress. Indications of adverse effects include, but are not limited to:

- Changes in complexion and skin coloration;
- Changes in coordination;

- Changes in demeanor;
- Excessive salivation and pupillary response; and
- Changes in speech pattern.

Crewmembers must also be aware of the potential exposure to possible safety hazards, unsafe acts, or non-compliance with safety procedures.

Field personnel must inform their partners or fellow crewmembers of non-visible effects of exposure to toxic materials that they may be experiencing. The symptoms of such exposure may include, but are not limited to:

- Headaches;
- Dizziness;
- Nausea;
- Blurred vision;
- Cramps; and
- Irritation of eyes, skin, or respiratory tract.

If protective equipment or noise levels impair communications, prearranged hand signals must be used for communication. Personnel must stay within line of sight of another team member.

8.3 HEAT STRESS

Heat stress is caused by a number of interacting factors, including environmental conditions, clothing, workload, etc., as well as the physical and conditioning characteristics of the individual. Since heat stress is one of the most common illnesses associated with heavy outdoor work conducted with direct solar load and, in particular, because wearing PPE can increase the risk of developing heat stress, workers must be capable of recognizing the signs and symptoms of heat-related illnesses. Personnel must be aware of the types and causes of heat-related illnesses and be able to recognize the signs and symptoms of these illnesses in both themselves and their co-workers.

Heat rashes are one of the most common problems in hot work environments. Commonly known as prickly heat, a heat rash is manifested as red papules and usually appears in areas where the clothing is restrictive. As sweating increases, these papules give rise to a prickling sensation. Prickly heat occurs in skin that is persistently wetted by unevaporated sweat, and heat rash papules may become infected if they are not treated. In most cases, heat rashes will disappear when the affected individual returns to a cool environment.

Heat cramps are usually caused by performing hard physical labor in a hot environment. These cramps have been attributed to an electrolyte imbalance caused by sweating. It is important to understand that cramps can be caused both by too much or too little salt.

Cramps appear to be caused by the lack of water replenishment. Because sweat is a hypotonic solution (plus or minus 0.3% NaCl), excess salt can build up in the body if the water lost through sweating is not replaced. Thirst cannot be relied on as a guide to the need for water; instead, water must be taken every 15 to 20 minutes in hot environments.

Under extreme conditions, such as working for six (6) to eight (8) hours in heavy protective gear, a loss of sodium may occur. Drinking commercially available carbohydrate electrolyte replacement liquids is effective in minimizing physiological disturbances during recovery.

Heat exhaustion occurs from increased stress on various body organs due to inadequate blood circulation, cardiovascular insufficiency, or dehydration. Signs and symptoms include pale, cool, moist skin; heavy sweating; dizziness; nausea; headache, vertigo, weakness, thirst, and giddiness. Fortunately, this condition responds readily to prompt treatment.

Heat exhaustion should not be dismissed lightly, however, for several reasons. One is that the fainting associated with heat exhaustion can be dangerous because the victim may be operating machinery or controlling an operation that should not be left unattended; moreover, the victim may be injured when he or she faints. Also, the signs and symptoms seen in heat exhaustion are similar to those of heat stroke, which is a medical emergency.

Workers suffering from heat exhaustion should be removed from the hot environment, be given fluid replacement, and be encouraged to get adequate rest.

Heat stroke is the most serious form of heat stress. Heat stroke occurs when the body's system of temperature regulation fails and the body's temperature rises to critical levels. This condition is caused by a combination of highly variable factors, and its occurrence is difficult to predict. Heat stroke is a medical emergency. The primary signs and symptoms of heat stroke are confusion; irrational behavior; loss of consciousness; convulsions; a lack of sweating (usually); hot, dry skin; and an abnormally high body temperature, e.g., a rectal temperature of 41°C (105.8°F). If body temperature is too high, it causes death. The elevated metabolic temperatures caused by a combination of workload and environmental heat load, both of which contribute to heat stroke, are also highly variable and difficult to predict.

If a worker shows signs of possible heat stroke, professional medical treatment should be obtained immediately. The worker should be placed in a shady area and the outer clothing should be removed. The worker's skin should be wetted and air movement around the worker should be increased to improve evaporative cooling until professional methods of cooling are initiated and the seriousness of the condition can be assessed. Fluids should be replaced as soon as possible. The medical outcome of an episode of heat stroke depends on the victim's physical fitness and the timing and effectiveness of first aid treatment.

Regardless of the worker's protestations, no employee suspected of being ill from heat stroke should be sent home or left unattended unless a physician has specifically approved such an order.

Proper training and preventive measures will help avert serious illness and loss of work productivity. Preventing heat stress is particularly important because once someone suffers from heat stroke or exhaustion, that person may be predisposed to additional heat injuries.

8.4 HEAT STRESS SAFETY PRECAUTIONS

Heat stress monitoring and work rest cycle implementation should commence when the ambient adjusted temperature exceeds 72°F. A minimum work rest regimen and procedures for calculating ambient adjusted temperature are described in **Table 8.1** below.

Table 8.1 – Work/Rest Schedule

Adjusted Temperature[b]	Work/Rest Regimen Normal Work Ensemble[c]	Work/Rest Regimen Impermeable Ensemble
90ºF (32.2ºC) or above	After each 45 minutes of work	After each 15 minutes of work
87.5º - 90ºF (30.8º-32.2ºC)	After each 60 minutes of work	After each 30 minutes of work
82.5º - 87.5ºF (28.1º - 30.8ºC)	After each 90 minutes of work	After each 60 minutes of work
77.5º - 82.5ºF (25.3º - 28.1ºC)	After each 120 minutes of work	After each 90 minutes of work
72.5º - 77.5ºF (30.8º - 32.2ºC)	After each 150 minutes of work	After each 120 minutes of work

a. For work levels of 250 kilocalories/hour (Light-Moderate Type of Work)

b. Calculate the adjusted air temperature (ta adj) by using this equation: ta adj °F = ta °F + (13 x % sunshine). Measure air temperature (ta) with a standard mercury-in-glass thermometer, with the bulb shielded from radiant heat. Estimate percent sunshine by judging what percent time the sun is not covered by clouds that are thick enough to produce a shadow. (100 percent sunshine = no cloud cover and a sharp, distinct shadow; 0 percent sunshine = no shadows.)

c. A normal work ensemble consists of cotton coveralls or other cotton clothing with long sleeves and pants.

d. The information presented above was generated using the information provided in the American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLV) Handbook.

In order to determine if the work rest cycles are adequate for the personnel and specific Site conditions, additional monitoring of individual heart rates will be conducted during the rest cycle. To check the heart rate, count the radial pulse for 30 seconds at the beginning of the rest period. If the heart rate exceeds 110 beats per minute, shorten the next work period by one third and maintain the same rest period.

Additionally, one or more of the following control measures can be used to help control heat stress and are mandatory if any Site worker has a heart rate (measure immediately prior to rest period) exceeding 115 beats per minute:

- Site workers will be encouraged to drink plenty of water and electrolyte replacement fluids throughout the day.

- On-Site drinking water will be kept cool (50 to 60°F).
- A work regimen that will provide adequate rest periods for cooling down will be established, as required.
- All personnel will be advised of the dangers and symptoms of heat stroke, heat exhaustion, and heat cramps.
- Cooling devices, such as vortex tubes or cooling vests, should be used when personnel must wear impermeable clothing in conditions of extreme heat.
- Employees should be instructed to monitor themselves and co-workers for signs of heat stress and to take additional breaks as necessary.
- A shaded rest area must be provided. All breaks should take place in the shaded rest area.
- Employees must not be assigned to other tasks during breaks.
- Employees must remove impermeable garments during rest periods. This includes white Tyvek-type garments.

All employees must be informed of the importance of adequate rest, acclimation, and proper diet in the prevention of heat stress disorders.

8.5 COLD STRESS

Cold stress normally occurs in temperatures at or below freezing, or under certain circumstances, in temperatures of 40°F. Extreme cold for a short time may cause severe injury to exposed body surfaces or result in profound generalized cooling, causing death. Areas of the body that have high surface area-to-volume ratio, such as fingers, toes, and ears, are the most susceptible. Two (2) factors influence the development of a cold weather injury: ambient temperature and the velocity of the wind. For instance, 10°F with a wind of 15 miles per hour (mph) is equivalent in chilling effect to still air at -18°F. An equivalent chill temperature chart relating the actual dry bulb temperature and wind velocity is presented in **Table 8.2** below.

Table 8.2– Wind Chill Temperature Chart

Estimated Wind Speed (in mph)	**Actual Temperature Reading (ºF)**											
	50	**40**	**30**	**20**	**10**	**0**	**-10**	**-20**	**-30**	**-40**	**-50**	**-60**
	Equivalent Chill Temperature (ºF)											
Calm	50	40	30	20	10	0	-10	-20	-30	-40	-50	-60
5	48	37	27	16	6	-5	-15	-26	-36	-47	-57	-68
10	40	28	16	4	-9	-24	-33	-46	-58	-70	-83	-95
15	36	22	9	-5	-18	-32	-45	-58	-72	-85	-99	-112
20	32	18	4	-10	-25	-39	-53	-67	-82	-96	-110	-121

25	30	16	0	-15	-29	-44	-59	-74	-88	-104	-118	-133	
30	28	13	-2	-18	-33	-48	-63	-79	-94	-109	-125	-140	
35	27	11	-4	-20	-35	-51	-67	-82	-98	-113	-129	-145	
40	26	10	-6	-21	-37	-53	-69	-85	-100	-116	-132	-148	
(Wind speeds greater than 40 mph have little additional effect.)	**LITTLE DANGER** **Maximum danger of false sense of security.**				**INCREASING DANGER** **Danger from freezing of exposed flesh within one minute.**			**GREAT DANGER** **Flesh may freeze within 30 seconds.**					
	Trench foot and immersion foot may occur at any point on this chart.												

[This chart was developed by the U.S. Army Research Institute of Environmental Medicine, Natick, MA (Source: ACGIH Threshold Limit Values for Chemical Substances and Physical Agents)].

Local injury resulting from cold is included in the generic term frostbite. There are several degrees of tissue damage associated with frostbite. Frostbite of the extremities can be categorized into:

- *Frost Nip or Incipient Frostbite* - characterized by sudden blanching or whitening of skin.
- *Superficial Frostbite* - skin has a waxy or white appearance and is firm to the touch, but tissue beneath is resilient.
- *Deep Frostbite* - tissues are cold, pale, and solid; extremely serious injury.

Systemic hypothermia is caused by exposure to freezing or rapidly dropping temperature. It can be fatal. Its symptoms are usually exhibited in five stages: 1) shivering; 2) apathy, listlessness, sleepiness, and (sometimes) rapid cooling of the body to less than 95°F; 3) unconsciousness, glassy stare, slow pulse, and slow respiratory rate; 4) freezing of the extremities; and 5) death. Trauma sustained in freezing or sub-zero conditions requires special attention because an injured worker is predisposed to secondary cold injury. Special provisions must be made to prevent hypothermia and secondary freezing of damaged tissues in addition to providing for first aid treatment. To avoid cold stress, site personnel must wear protective clothing appropriate for the level of cold and physical activity. In addition to protective clothing, preventive safe work practices, additional training, and warming regimens may be utilized to prevent cold stress.

8.6 SAFETY PRECAUTIONS FOR COLD STRESS PREVENTION

For air temperature of 0°F or less, mittens should be used to protect the hands. For exposed skin, continuous exposure should not be permitted when air speed and temperature results in a wind chill temperature of -25°F.

At air temperatures of 36°F or less, field personnel who become immersed in water or whose clothing becomes wet must be immediately provided with a change of clothing and be treated for hypothermia.

If work is done at normal temperature or in a hot environment before entering the cold, the field personnel must ensure that their clothing is not wet as a consequence of sweating. Wet field personnel must change into dry clothes prior to entering the cold area.

If the available clothing does not give adequate protection to prevent hypothermia or frostbite, work must be modified or suspended until adequate clothing is made available or until weather conditions improve.

Field personnel handling evaporative liquid (e.g., gasoline, alcohol, or cleaning fluids) at air temperatures below 40°F must take special precaution to avoid soaking of clothing or gloves with the liquids because of the added danger of cold injury due to evaporative cooling.

8.7 SAFE WORK PROCEDURES

Direct contact between bare skin and cold surfaces (< 20°F) should be avoided. Metal tool handles and/or equipment controls should be covered by thermal insulating material.

For work performed in a wind chill temperature at or below 10°F, workers should be under constant protective observation (buddy system). The work rate should be established to prevent heavy sweating that will result in wet clothing. For heavy work, rest periods must be taken in heated shelters and workers should be provided with an opportunity to change into dry clothing if needed.

Field personnel should be provided the opportunity to become accustomed to cold-weather working conditions and required protective clothing. Work should be arranged in such a way that sitting or standing still for long periods is minimized.

During the warming regimen (rest period), field personnel should be encouraged to remove outer clothing to permit sweat evaporation or to change into dry work clothing. Dehydration, or loss of body fluids, occurs insidiously in the cold environment and may increase susceptibility to cold injury due to a significant change in blood flow to the extremities. Fluid replacement with warm, sweet drinks and soups is recommended. The intake of coffee should be limited because of diuretic and circulatory effects.

8.8 BIOLOGICAL HAZARDS

Biological hazards may include poison ivy, snakes, thorny bushes and trees, ticks, mosquitoes, spiders, and other pests.

8.8.1 TICK BORNE DISEASES

Lyme Disease - The disease commonly occurs in summer and is transmitted by the bite of infected ticks. "Hot spots" in the United States include New York, New Jersey, Pennsylvania, Massachusetts, Connecticut, Rhode Island, Minnesota, and Wisconsin.

Erlichiosis - The disease also commonly occurs in summer and is transmitted by the bite of infected ticks. "Hot spots" in the United States include New York, Massachusetts, Connecticut, Rhode Island, Minnesota, and Wisconsin.

These diseases are transmitted primarily by the deer tick, which is smaller and redder than the common wood tick. The disease may be transmitted by immature ticks, which are small and hard to see. The tick may be as small as a period on this page.

Symptoms of Lyme disease include a rash or a peculiar red spot, like a bull's eye, which expands outward in a circular manner. The victim may have headache, weakness, fever, a stiff neck, and swelling and pain in the joints, and eventually, arthritis. Symptoms of erlichiosis include muscle and joint aches, flu-like symptoms, but there is typically no skin rash.

Rocky Mountain Spotted Fever (RMSF) - This disease is transmitted via the bite of an infected tick. The tick must be attached 4 to 6 hours before the disease-causing organism (Rickettsia rickettsii) becomes reactivated and can infect humans. The primary symptom of RMSF is the sudden appearance of a moderate-to-high fever. The fever may persist for two to three weeks. The victim may also have a headache, deep muscle pain, and chills. A rash appears on the hands and feet on about the third day and eventually spreads to all parts of the body. For this reason, RMSF may be confused with measles or meningitis. The disease may cause death, if untreated, but if identified and treated promptly, death is uncommon.

Control - Tick repellant containing diethyltoluamide (DEET) should be used when working in tick-infested areas, and pant legs should be tucked into boots. In addition, workers should search the entire body every three or four hours for attached ticks. Ticks should be removed promptly and carefully without crushing, since crushing can squeeze the disease-causing organism into the skin. A gentle and steady pulling action should be used to avoid leaving the head or mouth parts in the skin. Hands should be protected with surgical gloves when removing ticks.

8.8.2 POISONOUS PLANTS

Poisonous plants may be present in the work area. Personnel should be alerted to its presence and instructed on methods to prevent exposure.

Control - The main control is to avoid contact with the plant, cover arms and hands, and frequently wash potentially exposed skin. Particular attention must be given to avoiding skin contact with objects or protective clothing that have touched the plants. Treat every surface that may have touched the plant as contaminated, and practice contamination avoidance. If skin contact is made, the area should be washed immediately with soap and water and observed for signs of reddening.

8.8.3 SNAKES

The possibility of encountering snakes exists, specifically for personnel working in wooded/vegetated areas. Snake venoms are complex and include proteins, some of which have enzymatic activity. The effects produced by venoms include neurotoxic effects with sensory, motor, cardiac, and respiratory difficulties; cytotoxic effects on red blood cells, blood vessels, heart muscle, kidneys, and lungs; defects in coagulation; and effects from local release of substances by enzymatic actions. Other noticeable effects of venomous snakebites include swelling, edema, and pain around the bite, and the development of ecchymosis (the escape of blood into tissues from ruptured blood vessels).

Control - To minimize the threat of snakebites, all personnel walking through vegetated areas must be aware of the potential for encountering snakes, and the need to avoid actions potentiating encounters, such as turning over logs, etc. If a snakebite occurs, an attempt should be made to safely identify the snake via size and markings. The victim must be transported to the nearest hospital within 30 minutes; first aid consists of applying a constriction band and washing the area around the wound to remove any unabsorbed venom.

8.8.4 SPIDERS

Personnel may encounter spiders during work activities.

Two spiders are of concern: the black widow and the brown recluse. Both prefer dark sheltered areas such as basements, equipment sheds and enclosures, and around woodpiles or other scattered debris. The black widow is shiny black, approximately one inch long, and has a distinctive red hourglass marking on the underside of its body. The black widow is found throughout the United States. The bite of a black widow is seldom fatal to healthy adults, but effects include respiratory distress, nausea, vomiting, and muscle spasms. The brown recluse is smaller than the black widow and gets its name from its brown coloring and behavior. It has a distinctive violin shape on the top of its body. The brown recluse is more prevalent in the southern United States. The bite of the brown recluse is painful and the bite site ulcerates and takes many weeks to heal completely.

Control - To minimize the threat of spider bites, all personnel walking through vegetated areas must be aware of the potential for encountering these arachnids. Personnel need to avoid actions that may result in encounters, such as turning over logs, and placing hands in dark places such as behind equipment or in corners of equipment sheds or enclosures. If a spider bite occurs, the victim must be transported to the nearest hospital as soon as possible; first aid consists of applying ice packs and washing the area around the wound to remove any unabsorbed venom.

8.9 NOISE

Exposure to noise over the OSHA action level can cause temporary impairment of hearing; prolonged and repeated exposure can cause permanent damage to hearing. The risk and severity of hearing loss increases with the intensity and duration of exposure to noise. In addition

to damaging hearing, noise can impair voice communication, thereby increasing the risk of accidents on site.

Control - All personnel must wear hearing protection, with a Noise Reduction Rating (NRR) of at least 20, when noise levels exceed 85 dBA. When it is difficult to hear a co-worker at normal conversation distance, the noise level is approaching or exceeding 85 dBA, and hearing protection is necessary. All site personnel who may be exposed to noise must also receive baseline and annual audiograms and training as to the causes and prevention of hearing loss. Noise monitoring is discussed in Section 5.2, Noise Monitoring.

Whenever possible, equipment that does not generate excessive noise levels will be selected for this project. If the use of noisy equipment is unavoidable, barriers or increased distance will be used to minimize worker exposure to noise, if feasible.

All personnel must take every precaution to minimize the potential for spills during site operations. All on-Site personnel shall immediately report any discharge, no matter how small, to the FS.

Spill control equipment and materials will be located on the Site at locations that present the potential for discharge. All sorbent materials used for the cleanup of spills will be containerized and labeled appropriately. In the event of a spill, the FS will follow the provisions in Section 10.0, Emergency Procedures, to contain and control released materials and to prevent their spread to off-Site areas.

8.10 SPILL CONTROL

All personnel must take every precaution to minimize the potential for spills during site operations. All on-Site personnel shall immediately report any discharge, no matter how small, to the FS.

Spill control equipment and materials will be located on the Site at locations that present the potential for discharge. All sorbent materials used for the cleanup of spills will be containerized and labeled appropriately. In the event of a spill, the FS will follow the provisions in Section 10.0, Emergency Procedures, to contain and control released materials and to prevent their spread to off-Site areas.

8.11 SANITATION

Site sanitation will be maintained according to OSHA requirements.

8.11.1 BREAK AREA

Breaks must be taken in the SZ, away from the active work area after Site personnel go through decontamination procedures. There will be no smoking, eating, drinking, or chewing gum or tobacco in any area other than the SZ.

8.11.2 POTABLE WATER

The following rules apply to all field operations:

- An adequate supply of potable water will be provided at each project site. Potable water must be kept away from hazardous materials or media, and contaminated clothing or equipment.
- Portable containers used to dispense drinking water must be capable of being tightly closed and must be equipped with a tap dispenser. Water must not be consumed directly from the container (drinking from the tap is prohibited) nor may it be removed from the container by dipping.
- Containers used for drinking water must be clearly marked and shall not be used for any other purpose.
- Disposable drinking cups must be provided. A sanitary container for dispensing cups and a receptacle for disposing of used cups is required.

8.11.3 SANITARY FACILITIES

Access to facilities for washing before eating, drinking, or smoking, or alternate methods such as waterless hand-cleaner and paper towels will be provided.

8.11.4 LAVATORY

If permanent toilet facilities are not available, an appropriate number of portable chemical toilets will be provided. This requirement does not apply to mobile crews or to normally unattended Site locations so long as employees at these locations have transportation immediately available to nearby toilet facilities.

8.12 EMERGENCY EQUIPMENT

Adequate emergency equipment for the activities being conducted on site and as required by applicable sections of 29 CFR 1910 and 29 CFR 1926 will be on Site prior to the commencement of project activities. Personnel will be provided with access to emergency equipment, including, but not limited to, the following:

- Fire extinguishers of adequate size, class, number, and location as required by applicable sections of 29 CFR 1910 and 1926;
- Industrial first aid kits of adequate size for the number of personnel on site; and
- Emergency eyewash and/or shower if required by operations being conducted on Site.

8.13 LOCKOUT/TAGOUT PROCEDURES

Only fully qualified and trained personnel will perform maintenance procedures. Before maintenance begins, lockout/tagout procedures per OSHA 29 CFR 1910.147 will be followed.

Lockout is the placement of a device that uses a positive means, such as lock, to hold an energy or material-isolating device such that the equipment cannot be operated until the lockout device is removed. If a device cannot be locked out, a tagout system shall be used. Tagout is the

placement of a warning tag on an energy or material isolating device indicating that the equipment controls may not be operated until the personnel who attached the tag remove the tag.

8.14 ELECTRICAL SAFETY

Electricity may pose a particular hazard to Site workers due to the use of portable electrical equipment. If wiring or other electrical work is needed, a qualified electrician must perform it.

General electrical safety requirements include:

- All electrical wiring and equipment must be a type listed by Underwriters Laboratories (UL), Factory Mutual Engineering Corporation (FM), or other recognized testing or listing agency.
- All installations must comply with the National Electrical Safety Code (NESC), the National Electrical Code (NEC), or USCG regulations.
- Portable and semi-portable tools and equipment must be grounded by a multi-conductor cord having an identified grounding conductor and a multi-contact polarized plug-in receptacle.
- Tools protected by an approved system of double insulation, or its equivalent, need not be grounded. Double insulated tools must be distinctly marked and listed by UL or FM.
- Live parts of wiring or equipment must be guarded to prevent persons or objects from touching them.
- Electric wire or flexible cord passing through work areas must be covered or elevated to protect it from damage by foot traffic, vehicles, sharp corners, projections, or pinching.
- All circuits must be protected from overload.
- Temporary power lines, switchboxes, receptacle boxes, metal cabinets, and enclosures around equipment must be marked to indicate the maximum operating voltage.
- Plugs and receptacles must be kept out of water unless of an approved submersible construction.
- All extension cord outlets must be equipped with ground fault circuit interrupters (GFCI).
- Attachment plugs or other connectors must be equipped with a cord grip and be constructed to endure rough treatment.
- Extension cords or cables must be inspected prior to each use and replaced if worn or damaged. Cords and cables must not be fastened with staples, hung from nails, or suspended by bare wire.
- Flexible cords must be used only in continuous lengths without splice, with the exception of molded or vulcanized splices made by a qualified electrician.

8.15 LIFTING SAFETY

Using proper lifting techniques may prevent back strain or injury. The fundamentals of proper lifting include:

- Consider the size, shape, and weight of the object to be lifted. A mechanical lifting device or additional persons must be used to lift an object if it cannot be lifted safely alone.
- The hands and the object should be free of dirt or grease that could prevent a firm grip.

- Gloves must be used, and the object inspected for metal slivers, jagged edges, burrs, or rough or slippery surfaces.
- Fingers must be kept away from points that could crush or pinch them, especially when putting an object down.
- Feet must be placed far enough apart for balance. The footing should be solid and the intended pathway should be clear.
- The load should be kept as low as possible, close to the body with the knees bent.
- To lift the load, grip firmly and lift with the legs, keeping the back as straight as possible.
- A worker should not carry a load that he or she cannot see around or over.
- When putting an object down, the stance and position are identical to that for lifting; the legs are bent at the knees, and the back is straight as the object is lowered.

8.16 LADDER SAFETY

When portable ladders are used for access to an upper landing surface, the ladder side rails shall extend at least three (3) feet (9 m) above the upper landing surface to which the ladder is used to gain access; or, when such an extension is not possible because of the ladder's length, then the ladder shall be secured at its top to a rigid support that will not deflect, and a grasping device, such as a grabrail, shall be provided to assist employees in mounting and dismounting the ladder. In no case shall the extension be such that ladder deflection under a load would, by itself, cause the ladder to slip off its support.

- Ladders shall be maintained free of oil, grease, and other slipping hazards.
- Ladders shall not be loaded beyond the maximum intended load for which they were built, or beyond their manufacturer's rated capacity.
- Ladders shall be used only for the purpose for which they were designed.
- Non-self-supporting ladders shall be used at an angle such that the horizontal distance from the top support to the foot of the ladder is approximately one-quarter of the working length of the ladder (the distance along the ladder between the foot and the top support).
- Wood job-made ladders with spliced side rails shall be used at an angle such that the horizontal distance is one-eighth the working length of the ladder.
- Fixed ladders shall be used at a pitch no greater than 90 degrees from the horizontal, as measured to the back side of the ladder.
- Ladders shall be used only on stable and level surfaces unless secured to prevent accidental displacement.
- Ladders shall not be used on slippery surfaces unless secured or provided with slip-resistant feet to prevent accidental displacement. Slip-resistant feet shall not be used as a substitute for care in placing, lashing, or holding a ladder that is used upon slippery surfaces, including, but not limited to, flat metal or concrete surfaces that are constructed so they cannot be prevented from becoming slippery.
- Ladders placed in any location where they can be displaced by workplace activities or traffic, such as in passageways, doorways, or driveways, shall be secured to prevent accidental displacement, or a barricade shall be used to keep the activities or traffic away from the ladder.
- The area around the top and bottom of ladders shall be kept clear.
- The top of a non-self-supporting ladder shall be placed with the two rails supported equally unless it is equipped with a single support attachment.
- Ladders shall not be moved, shifted, or extended while occupied.

- Ladders shall have non-conductive side rails if they are used where the employee or the ladder could contact exposed energized electrical equipment.
- The top, top step, or the step labeled that it or any step above it should not be used as a step.
- Cross-bracing on the rear section of stepladders shall not be used for climbing unless the ladders are designed and provided with steps for climbing on both front and rear sections.
- Ladders shall be inspected by the HSM for visible defects on a daily basis and after any occurrence that could affect their safe use.
- Portable ladders with structural defects, such as, but not limited to, broken or missing rungs, cleats, or steps; broken or split rails; corroded components; or other faulty or defective components shall either be immediately marked in a manner that readily identifies them as defective or be tagged with “Do Not Use” or similar language and shall be withdrawn from service.
- Fixed ladders with structural defects, such as, but not limited to, broken or missing rungs, cleats, or steps; broken or split rails; or corroded components; shall be withdrawn from service.
- Ladder repairs shall restore the ladder to a condition meeting its original design criteria, before the ladder is returned to use.
- Single-rail ladders shall not be used.
- When ascending or descending a ladder, the user shall face the ladder.
- Each employee shall use at least one hand to grasp the ladder when progressing up and/or down the ladder.
- An employee shall not carry any object or load that could cause the employee to lose balance and fall.

8.17 TRAFFIC SAFETY

The project Site may be located adjacent to a public roadway where exposure to vehicular traffic is likely. Traffic may also be encountered as vehicles enter and exit the area. To minimize the likelihood of project personnel and activities being affected by traffic, the following procedures will be implemented.

Cones must be placed along the shoulder of the roadway starting 100 feet from the work area to alert passing motorists to the presence of personnel and equipment. A “Slow” or “Men Working” sign must be placed at the first cone. Barricades with flashing lights should be placed between the roadway and the work area.

During activities along a roadway, equipment will be aligned parallel to the roadway to the extent feasible, facing into the oncoming traffic so as to place a barrier between the work crew and the oncoming traffic. All crewmembers must remain behind the equipment and the traffic barrier.

All Site personnel who are potentially exposed to vehicular traffic must wear an outer layer of orange warning garments, such as vests, jackets, or shirts. If work is performed in hours of dusk or darkness, workers will be outfitted with reflective garments either orange, white (including silver-coated reflective coatings or elements that reflect white light), yellow, fluorescent red-orange, or fluorescent yellow-orange.

The flow of traffic into and out of the adjacent business must be assessed, and precautions taken to warn motorists of the presence of workers and equipment. Where possible, vehicles should be aligned to provide physical protection of people and equipment.

9.0 SITE-SPECIFIC HAZARDS AND CONTROL MEASURES

9.1 EVALUATION OF HAZARDS

The evaluation of hazards is provided as a quick reference as to the known conditions for the Site, wherein the level of detail for each of the subsections is identified.

9.1.1 HAZARD CHARACTERISTICS

Existing information for Site:

___X___ Detailed _____ Preliminary _____ None

Hazardous/Contaminated Material Form(s):

___X___ Solid ___X___ Liquid _____ Sludge _____ Gas _X_ Vapor

Containment Type(s):

_____ Drum _____ Tank _____ Pit _____ Debris

_____ Pond _____ Lagoon Other: None known

Hazardous Material Characteristics:

___X___ Volatile _____ Corrosive _____ Reactive
_____ Radioactive

_____ Ignitable ___X___ Toxic ___X___ Unknown

Routes of Exposure:

___X___ Oral _____ Dermal ___X___ Eye ___X___ Respiratory

9.1.2 POTENTIAL HEALTH AND SAFETY HAZARDS

___X___ Heat __X__ Congested areas

___X___ Cold ___X___ General Construction

_____ Confined space entry ___X___ Physical injury

_____ Oxygen depletion ___X___ Electrical hazards

_____ Asphyxiation ___X___ Handling and product transfer

___X___ Excavation ___X___ Fire

___X___ Cave-ins ___X___ Explosion

X Falls, slippage	X Biological Hazards
	X Plants – Poison Ivy, Poison Oak
	X Insects – Ticks
	X Insects – Mosquitoes
	X Insects – Bees and Wasps
	X Rats and Mice
X Heavy equipment	_____ Non-ionizing Radiation (i.e. UV, IR, etc.)
_____ Other: Potential Ignition Hazard	

9.2 FIELD ACTIVITIES, HAZARDS AND CONTROL PROCEDURES

The following task-specific safety analyses identify potential health, safety, and environmental hazards associated with each type of field activity. Because of the complex and changing nature of field projects, supervisors must continually inspect the Site to identify hazards that may affect on-Site personnel, the community, or the environment. The FS must be aware of these changing conditions and discuss them with the PM whenever these changes impact employee health, safety, the environment, or performance of the project. The FS will keep on-Site personnel informed of the changing conditions, and the PM will write and/or approve addenda or revisions to this HASP as necessary.

9.2.1 MOBILIZATION/CONSTRUCTION STAKEOUT

Description of Tasks

Site mobilization will include establishing excavation locations, determining the location of utilities and other installations, and establishing work areas. Mobilization will also include setting up equipment and establishing a temporary Site office. A break area will be set up outside of regulated work areas. Mobilization may involve clearing areas for the SZ and CRZ. During this initial phase, project personnel will walk the Site to confirm the existence of anticipated hazards and identify safety and health issues that may have arisen since the writing of this plan.

Hazard Identification

The hazards of this phase of activity are associated with heavy equipment operation, manual materials handling, installation of temporary on-site facilities, and manual site preparation.

Manual materials handling and manual site preparation may cause blisters, sore muscles, and joint and skeletal injuries; and may present eye, contusion, and laceration hazards. Installation of temporary field office and support facilities may expose personnel to electrical hazards, underground and overhead utilities, and physical injury due to the manual lifting and moving of materials. The work area presents slip, trip, and fall hazards from scattered debris and irregular walking surfaces. Rainy weather may cause wet, muddy, slick walking surfaces, and unstable soil. Freezing weather hazards include frozen, slick, and irregular walking surfaces.

Environmental hazards include plants, such as poison ivy and poison oak; aggressive fauna, such as ticks, fleas, mosquitoes, wasps, spiders, and snakes; weather, such as sunburn, lightning, rain, and heat- or cold-related illnesses; and pathogens, such as rabies, Lyme disease, and blood-borne pathogens.

Controls

Control procedures for these hazards are discussed in Section 8.0, General Safety Practices.

9.2.2 DEMOLITION/SITE-CLEARING

Description of Tasks

Site clearance will involve manual or mechanical removal of objects impeding access to the construction footprint. These obstructions are both natural and man-made items and will include, but not be limited to, fabricated metal and concrete structures, trees, vegetation, rubble, and miscellaneous trash/debris.

Hazard Identification

Hazards associated with demolition and site clearance include personnel working in and around potentially unstable structures, or locations of potential contact with hazardous chemicals, utilities, and/or falling objects. This task will involve manual, as well as mechanical demolition/clearance efforts so exertion and equipment hazards exist.

Controls

PPE – Personnel shall be protected from hazards of irritant and toxic plants and suitably instructed in the first aid treatment available.

Preparatory Operations – Prior to permitting employees to start demolition operations, an engineering survey shall be made, by a licensed Professional Engineer, of the structure to determine the stability of the structure. Any adjacent structure shall where personnel may be exposed shall also be similarly checked. The PO shall have in writing evidence that such a survey has been performed. All structural instabilities shall be shored or braced, under the supervision of a licensed Professional Engineer, prior to access by an FP.

Utilities – All electric, gas, water, steam, sewer, and other service lines shall be shut off, caped, or otherwise controlled, outside the building line before demolition work is started. In each case, any utility company that is involved shall be notified in advance. If it is necessary to maintain any power, water or other utilities during demolition, such lines shall be temporarily relocated, as necessary.

Hazardous Substances – It shall also be determined if any type of hazardous chemicals, gases, explosives, flammable materials, or similarly dangerous substances have been used in any pipes, tanks, or other equipment on the property. When the presence of any such substances is

apparent or suspected, testing and purging shall be performed and the hazard eliminated before demolition is started.

Falling Debris/Objects – No material shall be dropped to any point lying outside the exterior walls of the structure unless the area is effective protected. Access to the area where falling objects/debris may be encountered must be gated and controlled.

Structural Collapse – Structural or load supporting members on any floor shall not be cut or removed until all stories above such a floor have been demolished and removed. Walls, which are to serve as retaining walls against which debris will be piled, shall not be so used unless capable of safely supporting the imposed load. Mechanical equipment shall not be used on floors or working surfaces unless such floors or surfaces are not of sufficient strength to support the imposed load.

Rollover Guards – All equipment used in site clearing operations shall be equipped with rollover guards meeting the applicable requirements. In addition, rider-operated equipment shall be equipped with an overhead and rear canopy guard meeting the applicable requirements.

Inspections – During demolition, continuing inspections by a licensed Professional Engineer shall be made as the work progresses to detect hazards resulting from weakened or deteriorated floors, walls, or loosened material. No FP shall be permitted to work where such hazards exist until they are corrected by shoring, bracing, or other effective means.

9.2.3 EXCAVATION AND CUT/FILL OPERATIONS

9.2.3.1 EXCAVATION TRENCHING

Description of Tasks

This task includes the excavation of contaminated soils and superficial debris. Excavation depths vary across the Site.

Hazard Identification

The hazards of this activity are associated with heavy equipment operation, subsurface intrusion, manual materials handling, stockpiling, and disposal. Subsurface intrusion presents hazards associated with negotiating buried utilities, cave-ins of the excavated areas, and regress methods for personnel working inside the excavated areas. Disruption of contaminated soil also presents a health hazard.

Controls

Underground Utilities – The estimated locations of utility installations, such as sewer, telephone, fuel, electric, water lines, or any other underground installations that reasonably may be expected to be encountered during the excavation work, shall be determined prior to opening an excavation. Utility companies or owners shall be contacted (“Call Before You Dig”) within established or

customary local response times, advised of the proposed work, and asked to establish the location of the utility underground installations prior to the start of actual excavation.

When excavation operations approach the estimated location of underground installations, the exact location of the installations shall be determined by save and acceptable means. While the excavation is open, underground installations shall be protected, supported, or removed, as necessary, to safeguard site personnel.

Cave-Ins – Project personnel in an excavation shall be protected from cave-ins by an adequate protective system, except when:

- Excavations are made entirely in stable rock or excavations are less than five feet in depth and examination of the ground by the SSO provides no indication of a potential cave-in.
- Protective systems shall have the capacity to resist, without failure, all loads that are intended or could reasonably be expected to be applied or transmitted to the system.

Project personnel shall be protected from excavated or other materials or equipment that could pose a hazard by falling or rolling into excavations. Protection shall be provided by placing and keeping such materials or equipment at least two feet from the edge of excavations, or by the use of retaining devices that are sufficient to prevent materials or equipment from falling or rolling into excavations, or by a combination of both if necessary.

Daily inspections of excavations, the adjacent areas, and protective systems shall be made by the SSO for evidence of a situation that could result in possible cave-ins, indications of failure of protective systems, hazardous atmospheres, or other hazardous conditions. An inspection shall be conducted by the SSO prior to the start of work and as needed throughout operations. Inspections shall also be made after every rainstorm or other hazard-increasing occurrence. These inspections are only required when project personnel exposure can be reasonably anticipated.

Where the SSO finds evidence of a situation that could result in a possible cave-in, indications of failure of protective systems, hazardous atmospheres, or other hazardous conditions, exposed personnel shall be removed from the hazardous area until the necessary precautions have been taken to ensure their safety.

Excavation Egress – A stairway, ladder, ramp, or other safe means of egress shall be located in trench excavations that are four feet or more in depth so as to require no more than 25 feet or lateral travel for project personnel.

9.2.3.2 HEAVY EQUIPMENT OPERATION

Description of Tasks

Heavy equipment to be used for this task include, but are not limited to, excavators, dozers, dump trucks, and water sprayers (if required).

Hazard Identification

The most common type of accident that occurs in material handling operations is the "caught between" situation when a load is being handled and an object gets caught between two moving parts of the equipment. Operation of the heavy construction equipment may produce harmful noise.

Controls

Equipment Inspection – All vehicles in use shall be checked prior to operation to ensure that all parts, equipment, and accessories that affect safe operations are in proper operating condition and free from defects. All defects shall be corrected before the vehicle is placed in service.

Ground Guides – No personnel shall use any motor vehicle, earthmoving, or compacting equipment having an obstructed view to the rear, unless:

- The vehicle has a reverse signal alarm distinguishable from the surrounding noise level; or
- The vehicle is backed up only when an observer signals that it is safe to do so.

Blocking – Heavy machinery, equipment, or parts thereof that are suspended or held aloft shall be substantially blocked to prevent falling or shifting before employees are permitted to work under or between them.

Noise – Control measures for noise are addressed in Section 8.9.

Traffic – Control measures for traffic are addressed in Section 8.17.

9.2.3.3 DISTURBANCE/HANDLING OF CONTAMINATED MATERIAL

Description of Tasks

After the contaminated soil is excavated from below the Site's surface, the material will be stockpiled, dried, and either transported off Site or relocated and backfilled on Site.

Hazard Identification

The hazards associated with materials handling include contact of the contaminated material with project personnel, or cross contamination with other site soil.

Controls

Cross Contamination – Following excavation, contaminated soil stockpiles will be placed on a structure constructed to separate the material from the site soil and collect any groundwater leachate. The material shall be covered to prevent storm water erosion or migration of contaminants through storm water.

Air Monitoring – Air and particulate monitoring will be conducted during soil excavation activities to assess the potential for exposure to airborne COCs. If the results of air monitoring indicate the presence of organic vapors or particulates in a concentration causing concern, personnel will upgrade to Level C protection. Refer to Section 5.1, Air Monitoring, for a description of air monitoring requirements and action levels. Air monitoring protocols are also presented in the Community Air Monitoring Plan (Appendix G of this RAWP). A description of each level of personal protection is included in Section 4.0, Personal Protective Equipment.

Traffic – Control measures for traffic are addressed in Section 8.17.

9.2.4 DRILLING/SUBSURFACE INTRUSION ACTIVITIES

Description of Tasks

Site mobilization will include establishing excavation locations, determining the location of utilities and other installations, and establishing work areas. Mobilization will also include setting up equipment and establishing a temporary Site office. A break area will be set up outside of regulated work areas. Mobilization may involve clearing areas for the SZ and CRZ. During this initial phase, project personnel will walk the Site to confirm the existence of anticipated hazards and identify safety and health issues that may have arisen since the writing of this plan.

Hazard Identification

The primary physical hazards for this activity are associated with the use of soil boring and grouting equipment. The equipment is hydraulically powered and uses static force and dynamic percussion force to advance sampling and penetrating tubes.

Accidents can occur as a result of improperly placing the equipment on uneven or unstable terrain or failing to adequately secure the equipment prior to the start of operations. Overhead utility lines can create hazardous conditions if contacted by the equipment. Underground installations such as electrical lines, conduit, and product lines pose a significant hazard if contacted.

Controls

Geoprobe and Drill Rig Safety Procedures - The operator of the equipment must possess required state or local licenses to perform such work. All members of the crew shall receive Site-specific training prior to beginning work.

The operator is responsible for the safe operation of the rig, as well as the crew's adherence to the requirements of this HASP. The operator must ensure that all safety equipment is in proper condition and is properly used. The members of the crew must follow all instructions of the operator, wear all personal protective equipment, and be aware of all hazards and control procedures. The operator and crew must participate in the Daily Safety Meetings and be aware of all emergency procedures.

Equipment Inspection - Each day, prior to the start of work, the rig and associated equipment must be inspected by the operator. The following items must be inspected:

- Vehicle condition;
- Proper storage of equipment;
- Condition of all hydraulic lines;
- Fire extinguisher; and
- First aid kit.

Equipment Set Up - The drill rig must be properly blocked and leveled prior to raising the derrick. The wheels which remain on the ground must be chocked. The leveling jacks shall not be raised until the derrick is lowered. The rig shall be moved only after the derrick has been lowered.

All well sites will be inspected by the driller prior to the location of the rig to verify a stable surface exists. This is especially important in areas where soft, unstable terrain is common.

The drill rig must be properly blocked and leveled prior to raising the derrick. Blocking provides a more stable drilling structure by evenly distributing the weight of the rig. Proper blocking ensures that differential settling of the rig does not occur.

When the ground surface is soft or otherwise unstable, wooden blocks, at least 24" by 24" and 4" to 8" thick shall be placed between the jack swivels and the ground. The emergency brake shall be engaged, and the wheels that are on the ground shall be chocked.

Rules for Intrusive Activity - Before beginning any intrusive activity, the existence and location of underground pipe, conduit, electrical equipment, and other installations will be determined. This will be done, if possible, by contacting the appropriate client representative to mark the location of the lines. "Call Before You Dig" will verify the potential for encountering subsurface utilities. If the client's knowledge of the area is incomplete, an appropriate device, such as a magnetometer, will be used to locate the line.

Combustible gas readings of the general work area will be made regularly in areas where and/or during operations when the presence of flammable vapors or gases is suspected, such as during intrusive activities (see Section 5.1). Operations must be suspended and corrective action taken if the airborne flammable concentration reaches 10% of the LEL in the immediate area (a one-foot radius) of the point of drilling, or near any other ignition sources.

Overhead Electrical Clearances - If equipment is operated in the vicinity of overhead power lines, the power to the lines must be shut off or the equipment must be positioned and blocked such that no part, including cables, can come within the minimum clearances as indicated on **Table 8.2** below:

Table 8.3– Voltage versus Required Clearance

Nominal System Voltage	Minimum Required Clearance
0-50kV	10 feet
51-100kV	12 feet
101-200kV	15 feet
201-300kV	20 feet
301-500kV	25 feet
501-750kV	35 feet
751-1,000kV	45 feet

When the drill rig is in transit, with the boom lowered and no load, the equipment clearance must be at least four (4) feet for voltages less than 50kV, 10 feet for voltages of 50 kV to 345 kV, and 16 feet for voltages above 345 kV.

Hoisting Operations - Drillers should never engage the rotary clutch without watching the rotary table, and ensuring it is clear of personnel and equipment.

Unless the drawworks is equipped with an automatic feed control, the brake should not be left unattended without first being tied down.

Drill pipe, auger strings or casing should be picked up slowly. Drill pipe should not be hoisted until the driller is sure that the pipe is latched in the elevator, or the derrickman has signaled that he may safely hoist the pipe.

During instances of unusual loading of the derrick or mast, such as when making an unusually hard pull, only the driller should be on the rig floor; no one else should be on the rig or derrick.

The brakes on the drawworks of the drill rig should be tested by the driller each day. The brakes should be thoroughly inspected by a competent individual each week.

A hoisting line with a load imposed should not be permitted to be in direct contact with any derrick member or stationary equipment, unless it has been specifically designed for line contact.

Workers should never stand near the borehole whenever any wire line device is being run.

Hoisting control stations should be kept clean and controls labeled as to their functions.

Catline Operations - Only experienced workers will be allowed to operate the cathead controls. The kill switch must be clearly labeled and operational prior to operation of the catline. The cathead area must be kept free of obstructions and entanglements.

The operator should not use more wraps than necessary to pick up the load. More than one layer of wrapping is not permitted.

Personnel should not stand near, step over, or go under a cable or catline which is under tension.

Employees rigging loads on catlines shall:

- Keep out from under the load;
- Keep fingers and feet where they will not be crushed;
- Be sure to signal clearly when the load is being picked;
- Use standard visual signals only and not depend on shouting to coworkers; and
- Make sure the load is properly rigged, since a sudden jerk in the catline will shift or drop the load.

Wire Rope - When two wires are broken or rust or corrosion is found adjacent to a socket or end fitting, the wire rope shall be removed from service or re-socketed. Special attention shall be given to the inspection of end fittings on boom support, pendants, and guy ropes.

Wire rope removed from service due to defects shall be cut up or plainly marked as being unfit for further use as rigging.

Wire rope clips attached with U-bolts shall have the U-bolts on the dead or short end of the rope; the clip nuts shall be re-tightened immediately after initial load carrying use and at frequent intervals thereafter.

When a wedge socket fastening is used, the dead or short end of the wire rope shall have a clip attached to it or looped back and secured to itself by a clip; the clip shall not be attached directly to the live end.

Protruding ends of strands in splices on slings and bridles shall be covered or blunted.

Except for eye splices in the ends of wires and for endless wire rope slings, wire rope used in hoisting, lowering, or pulling loads, shall consist of one continuous piece without knot or splice.

An eye splice made in any wire rope shall have not less that five full tucks.

Wire rope shall not be secured by knots. Wire rope clips shall not be used to splice rope.

Eyes in wire rope bridles, slings, or bull wires shall not be formed by wire clips or knots.

Pipe/Auger Handling - Pipe and auger sections shall be transported by cart or carried by two persons. Individuals should not carry auger or pipe sections without assistance.

Workers should not be permitted on top of the load during loading, unloading, or transferring of pipe or rolling stock.

Employees should be instructed never to try to stop rolling pipe or casing; they should be instructed to stand clear of rolling pipe.

Slip handles should be used to lift and move slips. Employees are not permitted to kick slips into position.

When pipe is being hoisted, personnel should not stand where the bottom end of the pipe could whip and strike them.

Pipe and augers stored in racks, catwalks or on flatbed trucks should be secured to prevent rolling.

9.2.5 SUBSURFACE CHEMICAL SAMPLE/COLLECTION ANALYSIS

Description of Tasks

This sub-task consists of the collection of soil samples for subsequent field and laboratory analysis. The physical hazards of soil sampling are primarily associated with the sample collection methods, procedures utilized, and the environment itself.

Hazard Identification

Incidental contact with COCs is the primary hazard associated with sampling the stabilized material. This contact may occur through the manipulation of sample media and equipment, manual transfer of media into sample containers, and proximity of operations to the breathing zone. The primary hazards associated with these sampling procedures are not potentially serious; however, other operations in the area, or the conditions under which samples must be collected, may present chemical and physical hazards. The hazards directly associated with sampling procedures are generally limited to strains/sprains and potential eye hazards. Potential chemical hazards may include contact with media containing Site COCs and potential contact with chemicals used for equipment decontamination.

Controls

PPE – To control dermal exposure during sampling activities, a minimum of Level D protection will be worn. If necessary, based on field observations and site conditions, air monitoring may be conducted during sediment sampling activities. If the results of air monitoring indicate the presence of airborne contaminants in a concentration causing concern, personnel will upgrade to Level C protection. Refer to Section 5.1, Air Monitoring, for a description of air monitoring requirements and action levels. Air monitoring protocols are also presented in the Community Air Monitoring Plan (Appendix G of this RAWP). A description of each level of personal protection is included in Section 4.0, Personal Protective Equipment.

9.2.6 UST CLOSURE

9.2.6.1 WORKING IN CONFINED SPACES

Description of Tasks

The project may involve the closure of several underground storage tanks (USTs).

Hazard Identification

Closure activities may require the entrance into confined spaces to facilitate cleaning and removal of the USTs.

Controls

All personnel required to enter confined or enclosed spaces must be instructed as to the nature of the hazards involved, the necessary precautions to be taken, and in the use of required

protective and emergency equipment. The PO shall comply with all specific regulations that apply to work in dangerous or potentially dangerous areas. All personnel entering the confined space will have achieved the appropriate OSHA training and the operation will be permitted, as necessary.

9.2.6.2 WORKING WITH COMPRESSED AIR

Description of Tasks

The proposed method of purging the USTs includes the injection of compressed gas into the tank and attached piping network.

Hazard Identification

Uncontrolled release of the highly pressured air can cause injury to FP during this task. Cylinders must also be properly managed to ensure they are not compromised during storage and/or use.

Controls

Pressure Regulation – Compressed air used for cleaning purposes shall be reduced to less than 30 pounds per square inch and then only with effective chip guarding and personal protective equipment.

Cylinder Storage – Valve protection caps shall be in place and secured when compressed gas cylinders are transported, moved, or stored. Cylinder valves shall be closed when work is finished and when cylinders are empty or are moved. Compressed gas cylinders shall be secured in an upright position at all times, except if necessary for short periods of time when cylinders are actually being hoisted or carried. Cylinders shall be placed in a location where they cannot become part of an electrical circuit.

9.2.7 DECONTAMINATION

All equipment will be decontaminated before leaving the Site. Personnel involved in decontamination activities may be inadvertently exposed to skin contact with contaminated materials and chemicals brought from the EZ. Personnel involved in decontamination activities must wear PPE that is, at a minimum, one level below the level worn by personnel working in the EZ.

9.2.8 DEMOBILIZATION

Demobilization involves the removal of all tools, equipment, supplies, and vehicles brought to the site. The hazards of this phase of activity are associated with heavy equipment operation and manual materials handling.

Manual materials handling may cause blisters, sore muscles, and joint and skeletal injuries; and may present eye, contusion, and laceration hazards. Heavy equipment operation presents noise and vibration hazards, and hot surfaces, to operators. Personnel in the vicinity of heavy equipment operation may be exposed to physical hazards resulting in fractures, contusions, and lacerations and may be exposed to high noise levels. The work area presents slip, trip, and fall hazards from scattered debris and irregular walking surfaces. Rainy weather may cause wet, muddy, slick walking surfaces, and unstable soil. Freezing weather hazards include frozen, slick, and irregular walking surfaces.

Environmental hazards include plants, such as poison ivy and poison oak; aggressive fauna, such as ticks, fleas, mosquitoes, wasps, spiders, and snakes; weather, such as sunburn, lightning, rain, and heat-or cold-related illnesses; and pathogens, such as rabies, Lyme disease, and blood-borne pathogens.

Control procedures for these hazards are discussed in Section 8.0, General Safety Practices.

9.3 CHEMICAL HAZARDS

The chemical hazards associated with Site operations are related to inhalation, ingestion, and skin exposure to Site COCs. Concentrations of airborne COCs during Site tasks may be measurable and will require air monitoring during certain operations. Air monitoring requirements for Site tasks are outlined in Section 5.1. Air monitoring protocols are also presented in the Community Air Monitoring Plan (Appendix G of this RAWP).

COCs at the Site include VOC, SVOCs, pesticides, metals, PCBs, and PFAS. The potential for inhalation of site COCs is low except for VOCs, which is moderate based on soil vapor results. The potential for dermal contact with soils containing Site COCs during remedial operations is moderate. **Table 9.1** lists the primary contaminants that have been identified at the Site and the media in which they are present.

Table 9.1 – List of Primary Contaminants

Media: Soil		
VOCs	**Maximum Concentration (mg/kg)**	**Applicable Monitoring Instrument**
1,2,4-Trimethylbenzene	340	PID
1,3,5-Trimethylbenzene	120	PID
Acetone	0.28	PID

Benzene	0.73	PID
Ethylbenzene	78	PID
m,p-Xylene	6.9	PID
Naphthalene	40	PID
N-Butylbenzene	37	PID
N-Propylbenzene	110	PID
Toluene	2.7	PID
Total Xylenes	110	PID
SVOCs	**Maximum Concentration (mg/kg)**	**Applicable Monitoring Instrument**
Benzo(a)anthracene	10	PID
Benzo(a)pyrene	8.5	PID
Benzo(b)fluoranthene	12	PID
Benzo(g,h,i)perylene	3.5	PID
Benzo(k)fluoranthene	2.6	PID
Chrysene	8.9	PID
Dibenzo(a,h)anthracene	1.2	PID
Indeno(1,2,3-cd)pyrene	4.3	PID
Naphthalene	46	PID
Phenanthrene	6.2	PID
Pesticides	**Maximum Concentration (mg/kg)**	**Applicable Monitoring Instrument**
4,4'-DDD	0.0139	Not Applicable
4,4'-DDE	0.179	Not Applicable
4,4'-DDT	0.283	Not Applicable
Dieldrin	0.0065	Not Applicable

Metals	Maximum Concentration (mg/kg)	Applicable Monitoring Instrument
Arsenic	15.8	Not Applicable
Barium	1,100	Not Applicable
Copper	348	Not Applicable
Lead	2,520	Not Applicable
Manganese	5,960	Not Applicable
Mercury	1.8	Not Applicable
Nickel	48.8	Not Applicable
Zinc	753	Not Applicable
PCBs	**Maximum Concentration (mg/kg)**	**Applicable Monitoring Instrument**
Aroclor 1260	0.151	Not Applicable
PFAS	**Maximum Concentration (ppb)**	**Applicable Monitoring Instrument**
PFOS	3.34	Not Applicable

Media: Groundwater		
VOCs	**Maximum Concentration (ug/L)**	**Applicable Monitoring Instrument**
1,2,4,5-Tetramethylbenzene	110	PID
1,2,4-Trimethylbenzene	140	PID
1,3,5-Trimethylbenzene	5.8	PID
2-Butanone (MEK)	60.7	PID

Acetone	128	PID
Benzene	1.3	PID
Ethylbenzene	71	PID
Isopropylbenzene	45	PID
Naphthalene	200	PID
Butylbenzene	22	PID
N-Propylbenzene	170	PID
O-xylene	16	PID
P/m-xylene	73	PID
Sec-butylbenzene	23	PID
SVOCs	**Maximum Concentration (ug/M3)**	**Applicable Monitoring Instrument**
Benzo(a)anthracene	0.08	PID
Benzo(a)pyrene	0.22	PID
Benzo(b)fluoranthene	1.1	PID
Benzo(k)fluoranthene	0.39	PID
Bis(2-ethylhexyl)phthalate	5.2	PID
Chrysene	0.79	PID
Indeno(1,2,3-cd)pyrene	0.86	PID
Naphthalene	199	PID
Metals	**Maximum Concentration (mg/kg)**	**Applicable Monitoring Instrument**
Arsenic	66.56	Not Applicable
Barium	11,310	Not Applicable
Beryllium	28.7	Not Applicable

Cadmium	11.41	Not Applicable
Chromium	868.4	Not Applicable
Copper	10,300	Not Applicable
Iron	666,000	Not Applicable
Lead	4,517	Not Applicable
Magnesium	852,000	Not Applicable
Manganese	33,320	Not Applicable
Mercury	1.25	Not Applicable
Nickel	1,468	Not Applicable
Selenium	65.9	Not Applicable
Sodium	1,440,000	Not Applicable
Thallium	10.36	Not Applicable
Zinc	3,883	Not Applicable
PCBs	**Maximum Concentration (ug/l)**	**Applicable Monitoring Instrument**
Aroclor 1260	0.238	Not Applicable
PFAS	**Maximum Concentration (ppt)**	**Applicable Monitoring Instrument**
PFOA	6.7	Not Applicable
PFOS	2.7	Not Applicable

Media: Soil Vapor		
VOCs	**Maximum Concentration (ug/M3)**	**Applicable Monitoring Instrument**
2,2,4-Trimethylpentane	1,070,000	PID
Benzene	37,400	PID
Cyclohexane	447,000	PID
Ethylbenzene	28,900	PID
Heptane	852,000	PID
Hexane	2,490,000	PID
P/m-Xylene	25,300	PID
Tetrachloroethene	154	PID

10.0 EMERGENCY PROCEDURES

10.1 GENERAL

Prior to the start of operations, the work area will be evaluated for the potential for fire, contaminant release, or other catastrophic event. Unusual conditions or events, activities, chemicals, and conditions will be reported to the FS/SSO immediately.

The FS/SSO will establish evacuation routes and assembly areas for the Site. All personnel entering the Site will be informed of this route and the assembly area.

10.2 EMERGENCY RESPONSE

If an incident occurs, the following steps will be taken:

- The FS/SSO will evaluate the incident and assess the need for assistance and/or evacuation;
- The FS/SSO will call for outside assistance as needed;
- The FS/SSO will ensure the PM is notified promptly of the incident; and
- The FS/SSO will take appropriate measures to stabilize the incident scene.

10.2.1 FIRE

In the case of a fire at the Site, the FS/SSO will assess the situation and direct fire-fighting activities. The FS/SSO will ensure that the PM is immediately notified of any fires. Site personnel will attempt to extinguish the fire with available extinguishers, if safe to do so. In the event of a fire that Site personnel are unable to safely extinguish with one (1) fire extinguisher, the local fire department will be summoned.

10.2.2 CONTAMINANT RELEASE

In the event of a contaminant release, the following steps will be taken:

- Notify FS/SSO immediately;
- Evacuate immediate area of release;
- Conduct air monitoring to determine needed level of PPE; and
- Don required level of PPE and prepare to implement control procedures.

The FS/SSO has the authority to commit resources as needed to contain and control released material and to prevent its spread to off-Site areas.

10.3 MEDICAL EMERGENCY

All employee injuries must be promptly reported to the SSO/FS, who will:

- Ensure that the injured employee receives prompt first aid and medical attention;
- In emergency situations, the worker is to be transported by appropriate means to the nearest urgent care facility (normally a hospital emergency room); and
- If the injured person is a SESI employee, notify SESI at 973-808-9050.

10.3.1 EMERGENCY CARE STEPS

Survey the scene. Determine if it is safe to proceed. Try to determine if the conditions that caused the incident are still a threat. Protect yourself from exposure before attempting to rescue the victim.

- Do a primary survey of the victim. Check for airway obstruction, breathing, and pulse. Assess likely routes of chemical exposure by examining the eyes, mouth, nose, and skin of the victim for symptoms.
- Phone Emergency Medical Services (EMS). Give the location, telephone number used, caller's name, what happened, number of victims, victim's condition, and help being given.
- Maintain airway and perform rescue breathing as necessary.
- Perform CPR as necessary.
- Do a secondary survey of the victim. Check vital signs and do a head-to-toe exam.

Treat other conditions as necessary. If the victim can be moved, take him/her to a location away from the work area where EMS can gain access.

10.4 FIRST AID GENERAL

All persons must report any injury or illness to their immediate supervisor or the FS. Trained personnel will provide first aid. Injuries and illnesses requiring medical treatment must be documented. The FS and SSO must fill out an accident/incident report as soon as emergency conditions no longer exist and first aid and/or medical treatment has been ensured. The report must be completed and submitted to the PM within 24 hours after the incident.

If first-aid treatment is required, first aid kits are kept at the CRZ. If treatment beyond first aid is required, the injured person(s) should be transported to the medical facility. If the injured person is not ambulatory or shows any sign of not being in a comfortable and stable condition for transport, then an ambulance/paramedics should be summoned. If there is any doubt as to the injured worker's condition, it is best to let the local paramedic or ambulance service examine and transport the worker.

10.4.1 FIRST AID—INHALATION

Any employee complaining of symptoms of chemical overexposure as described in Section 4, General Site Safety Procedures, will be removed from the work area and transported to the designated medical facility for examination and treatment.

10.4.2 FIRST AID—INGESTION

Call EMS and consult a poison control center for advice. If available, refer to the MSDS for treatment information. If the victim is unconscious, keep them on their side and clear the airway if vomiting occurs.

10.4.3 FIRST AID—SKIN CONTACT

Project personnel who have had skin contact with contaminants will, unless the contact is severe, proceed through the CRZ, to the wash area. Personnel will remove any contaminated clothing, and then flush the affected area with water for at least 15 minutes. The worker should be transported to the medical facility if he/she shows any sign of skin reddening, irritation, or if he/she requests a medical examination.

10.4.4 FIRST AID—EYE CONTACT

Project personnel who have had contaminants splashed in their eyes or who have experienced eye irritation while in the EZ, must immediately proceed to the eyewash station in the CRZ. Do not decontaminate prior to using the eyewash. Remove whatever protective clothing is necessary to use the eyewash. Flush the eye with clean running water for at least 15 minutes. Arrange prompt transport to the designated medical facility.

10.5 REPORTING INJURIES, ILLNESSES, AND SAFETY INCIDENTS

Injuries and illnesses, however minor, will be reported to the FS immediately. The FS will complete an injury report and submit it to the HSM, and the PM by end of shift.

10.6 EMERGENCY INFORMATION

he means to summon local public response agencies such as police, fire, and ambulance will be reviewed in the daily safety meeting. These agencies are identified in **Table 10.1** below.

Table 10.1 – Emergency Contacts

Local Emergency Contacts	**Telephone No.**
EMERGENCY	911
White Plains Hospital	(914) 681-0600
Police Emergency	911
Fire Emergency	911
Rescue Squad	911
Ambulance	911
Miscellaneous Contacts	**Telephone No.**
N.Y. Poison Control Center	(800) 222-1222
National Response Center and Terrorist Hotline	(800) 424-8802
Center for Disease Control	(800) 311-3435
Utility Mark-Out	(800) 962-7962

10.6.1 DIRECTIONS TO HOSPITAL

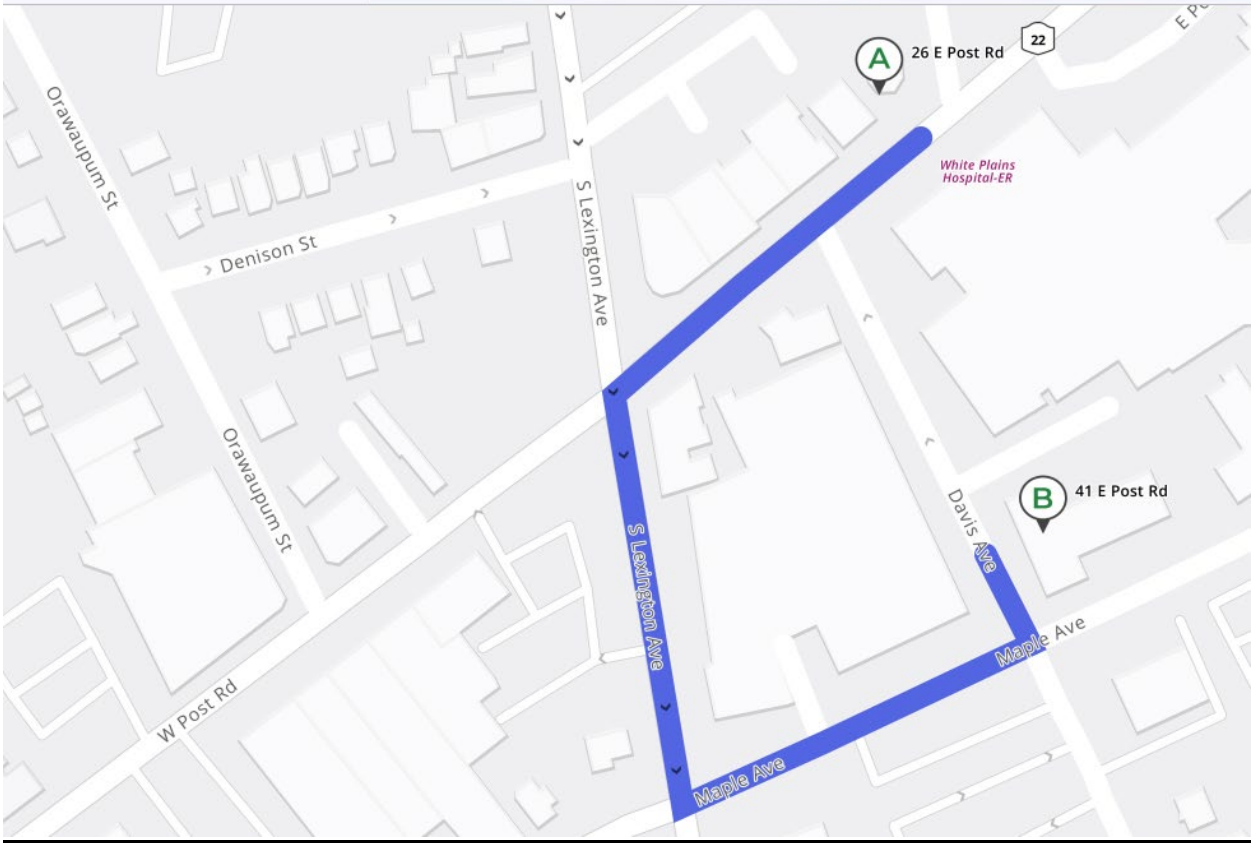
White Plains Hospital

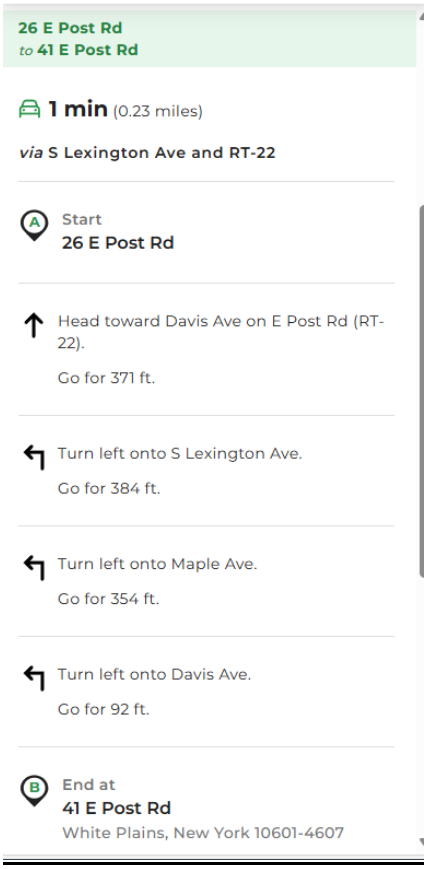
41 East Post Road

White Plains, NY 10601

(914) 681-0600

Directions to Hospital:


A
26 E Post Rd
22
White Plains Hospital-ER
Orawaupum St
Denison St
S Lexington Ave
Orawaupum St
B
41 E Post Rd
Davis Ave
S Lexington Ave
Maple Ave
Maple Ave
W Post Rd



White Plains Hospital is depicted on **Figure 10.1**

11.0 LOGS, REPORTS, AND RECORDKEEPING

11.1 HASP AND FIELD CHANGE REPORT

The following is a summary of required health and safety logs, reports, and record keeping for the operations at the subject Site. The field change request form is presented as Attachment 3.

11.2 MEDICAL AND TRAINING RECORDS

The HSM must obtain and keep a log of personnel meeting appropriate training and medical qualifications for the site work. The log will be kept in the project file. Each company's Human Resources Department will maintain medical records, in accordance with 29 CFR 1910.1020.

11.3 EXPOSURE RECORDS

Any personnel monitoring results, laboratory reports, calculations, and air sampling data sheets are part of an employee exposure record. These records will be kept in accordance with 29 CFR 1910.1020. For SESI employees, the originals will be sent to the Human Resources Manager. For subcontractor employees, the original file will be sent to the subcontractor employer with a copy maintained in the SESI project file.

11.4 ACCIDENT/INCIDENT REPORT

Any accident/incident reports must be completed following procedures given in Section 10.5 of this HASP. The originals will be sent to the HSM for maintenance. A copy of the forms will be kept in the project file. (See Attachment 4).

11.5 OSHA FORM 200

An OSHA Form 200 (Log of Occupational Injuries and Illnesses) will be kept at the project Site. All recordable injuries or illnesses will be recorded on this form. At the end of the project, the original will be sent to the Human Resources Manager for maintenance. Subcontractor employees must also meet the requirements of maintaining an OSHA 200 Form. The accident/incident report meets the requirements of OSHA Form 101 (Supplemental Record), which must be maintained with the OSHA Form 200 for all recordable injuries or illnesses.

11.6 ON-SITE HEALTH AND SAFETY FIELD LOGBOOK

The HSM or designee will maintain an on-Site health and safety logbook in which daily Site conditions, activities, personnel, and significant events will be recorded. Calibration records and personnel monitoring results, if available, will also be recorded in the field logbook. The original logbook will be kept in the project file.

Whenever any personnel monitoring is conducted onsite, the monitoring results will be noted in the filed logbook. These will become part of the exposure records file and will be maintained by the HSM.

A signatory page is included (See Attachment 5) and is to be signed by those working on and/or visiting the Site.

11.7 MATERIAL DATA SAFETY SHEETS

Material Safety Data Sheets (MSDS) will be obtained and kept on file at the project site for each hazardous chemical brought to, use, or stored at the Site (See Attachment 6).

12.0 COVID RESPONSE ACTION PLAN

SESI is concerned with the safety and well-being of its employees, vendors, subcontractors, and others with access to its offices and job sites, with particular emphasis on the unique challenges posed by COVID-19.

SESI has established the following protocols in keeping with the recommendations of the CDC and other sources including State Governor Executive Orders for work taking place on construction sites.

We request that all SESI employees, vendors, and subcontractors help with our prevention efforts while at work.

In order to minimize the spread of COVID-19, we must all cooperate in doing the following:

- Frequently wash your hands with soap and water for at least 20 seconds. When soap and running water are unavailable, use an alcohol-based hand rub with at least 60% alcohol. Always wash hands that are visibly soiled.
- Cover your mouth and nose with a tissue when you cough or sneeze or use the inside of your elbow.
- Discourage handshaking, avoid touching your eyes, nose, or mouth with unwashed hands.
- Limit the sharing of tools, machinery, equipment, phones, desks, and computers.
- Wear cloth face coverings on all construction sites.
- Avoid close contact with people who are sick.
- Employees who have symptoms (i.e., fever, cough, or shortness of breath) should notify their supervisor and stay home—DO NOT GO TO WORK.
- Sick employees should follow CDC-recommended steps. Employees should not return to work until the criteria to discontinue home isolation are met, in consultation with healthcare providers and state and local health departments.

The following are the specific jobsite protocols and response actions to be taken in the event someone on Site has been in contact with, or has themselves, the COVID-19 virus:

OFFICE/JOBSITE PROTOCOL

- If an employee/worker exhibits COVID-19 symptoms, the employee/worker must remain at home until he or she is symptom free for 72 hours (three [3] full days) without the use of fever-reducing or other symptom-altering medicines (e.g. acetaminophen, cough suppressants). SESI will similarly require an employee or worker that reports to work with symptoms to return home until they are symptom free for 72 hours (three [3] full days).
- Limit person to person contact, and when unavoidable, maintain CDC distancing guidelines.
- Avoid eating lunch in groups.
- Avoid in-person meetings if possible. If an in-person meeting is necessary, conduct it in a well-ventilated area with enough space for attendees to distance themselves from one another. Field jobsite meetings should be conducted in smaller group meetings (no more than five [5] persons when possible) versus one large meeting.
- Only workers necessary to the execution of the work should be at the jobsites. No non-essential visitors should be permitted at the worksite.

RESPONSE ACTION TRIGGER EVENTS:

- an employee/worker at work has tested positive for COVID-19
- an employee/worker at work has suspected, but unconfirmed, case of COVID-19
- an employee/worker self-reported that they came in contact with someone who had a presumptive positive case of COVID-19

- an employee/worker has been exposed to the virus but only found out after they have interacted with others

RESPONSE ACTIONS:

- Upon occurrence of any of the Trigger Events above, employees/subcontractors shall notify SESI Management about the suspected employee/worker infected with, or exposed to, COVID-19.
- SESI Management will investigate the incident to confirm the report is valid.
- Employees/Subcontractors shall investigate their respective infected employee(s) and report the following to SESI Management and HR:
    - Identify all individuals who worked in proximity (six feet) of the infected employee/worker,
    - Employee(s)/Worker(s) infected with the COVID-19 virus, and employee(s)/worker(s) that came in contact with the infected employee/worker shall be sent home for a period of 14 days,
    - Do not identify the infected employee/worker by name to avoid violation of privacy/confidentiality laws, and,
    - Keep SESI Management informed of progress and updates.

- If an infected person was in the office, SESI will clean and disinfect common areas and surfaces, in accordance with CDC recommendations.
- SESI Management will notify affected employees/workers of the Trigger Event and instruct them to take the response actions above.

- **SESI Management policy requires written documentation from a health care professional that confirmed infected employees can return to work.**

Except for circumstances in which SESI is legally required to report workplace occurrences of communicable disease, the confidentiality of all medical conditions will be maintained in accordance with applicable law and to the extent practical under the circumstances. When required, the number of persons who will be informed of an employee's/worker's condition will be kept at the minimum needed to appropriately notify other potentially affected employees/workers of Trigger Events and to attempt to minimize the potential for transmission of the virus.

Attachment 1:
Air Monitor Log

Air Monitoring: Sample Collection and Analysis

Date & Time of Monitoring	Task / Operation Being	Substance(s)/ Hazard(s) Being	Monitoring Location	Type/Method of Monitoring	Monitoring Results	Exposure Limits	Required Action

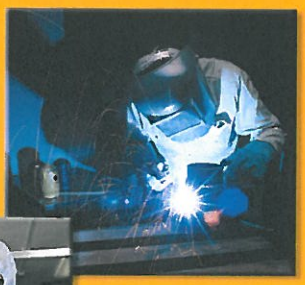
Attachment 2:
OSHA Poster

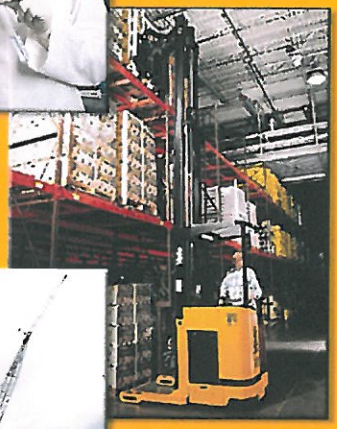
Job Safety and Health

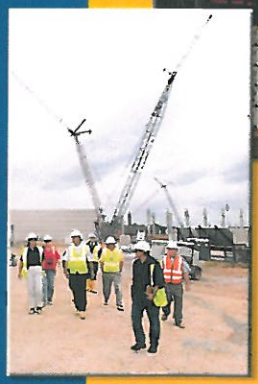
It's the law!

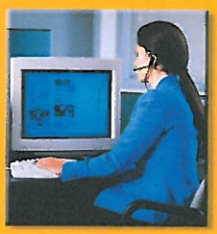
OSHA®

Occupational Safety and Health Administration
U.S. Department of Labor









EMPLOYEES:

- You have the right to notify your employer or OSHA about workplace hazards. You may ask OSHA to keep your name confidential.
- You have the right to request an OSHA inspection if you believe that there are unsafe and unhealthful conditions in your workplace. You or your representative may participate in that inspection.
- You can file a complaint with OSHA within 30 days of retaliation or discrimination by your employer for making safety and health complaints or for exercising your rights under the *OSH Act*.
- You have the right to see OSHA citations issued to your employer. Your employer must post the citations at or near the place of the alleged violations.
- Your employer must correct workplace hazards by the date indicated on the citation and must certify that these hazards have been reduced or eliminated.
- You have the right to copies of your medical records and records of your exposures to toxic and harmful substances or conditions.
- Your employer must post this notice in your workplace.
- You must comply with all occupational safety and health standards issued under the *OSH Act* that apply to your own actions and conduct on the job.

EMPLOYERS:

- You must furnish your employees a place of employment free from recognized hazards.
- You must comply with the occupational safety and health standards issued under the *OSH Act*.

This free poster available from OSHA –
The Best Resource for Safety and Health

Free assistance in identifying and correcting hazards or complying with standards is available to employers, without citation or penalty, through OSHA-supported consultation programs in each state.

1-800-321-OSHA (6742)
www.osha.gov

OSHA 3165-02 2012R

Attachment 3:
Field Change Request Form

HEALTH & SAFETY PLAN
CHANGE NOTICE

Pages _____ of _____

Project: H&S-CN

1) HASP VERSION: _____ SECTION: _____ PAGE (s): _____

RE: --- Change to existing HASP Anticipated Revision Date: _____
--- Addition to existing HASP
--- Other: _____
_____CONT._____

2) PROPOSED CHANGE: _____
_____
_____
_____

3) REASON FOR PROPOSED CHANGE(s):
--- Required by SPEC or Change Order --- Other: _____
--- Disposition of Deficiency _____CONT._____
--- Change in Regulatory or Other Requirements
--- Operational Experience

4) EXHIBITS ATTACHED ____ NO ____ YES (If YES, describe) _____
_____CONT._____

5) PMK APPROVALS PROJECT MANAGER: _____ Date: _____
SITE MANAGER: _____ Date: _____
H&S MANAGER: _____ Date: _____

Client Approval Required: ____ NO ____ YES (If YES, date submitted) _____

6) CLIENT APPROVAL _____ APPROVED _____ REMANDED _____ REJECTED

Comments: _____
_____
_____ CONT._____

Client Representative: _____Date: _____

7) DISTRIBUTION AFTER APPROVAL

X HASP UPDATE LIST --- OTHER: _____
X CLIENT _____
X PROJECT FILES _____

8) PREPARED BY: _____Date: _____
Title: _____

Attachment 4:

Injury Report Form

OSHA's Form 301
Injury and Illness Incident Report

Attention: This form contains information relating to employee health and must be used in a manner that protects the confidentiality of employees to the extent possible while the information is being used for occupational safety and health purposes.

U.S. Department of Labor
Occupational Safety and Health Administration

Form approved OMB no. 1218-0176

This *Injury and Illness Incident Report* is one of the first forms you must fill out when a recordable work-related injury or illness has occurred. Together with the *Log of Work-Related Injuries and Illnesses* and the accompanying *Summary*, these forms help the employer and OSHA develop a picture of the extent and severity of work-related incidents.

Within 7 calendar days after you receive information that a recordable work-related injury or illness has occurred, you must fill out this form or an equivalent. Some state workers' compensation, insurance, or other reports may be acceptable substitutes. To be considered an equivalent form, any substitute must contain all the information asked for on this form.

According to Public Law 91-596 and 29 CFR 1904, OSHA's recordkeeping rule, you must keep this form on file for 5 years following the year to which it pertains.

If you need additional copies of this form, you may photocopy and use as many as you need.

Completed by _____

Title _____

Phone (_____)_____-_____ Date ____/ ____/ ____

Information about the employee

1) Full name _____

2) Street _____

City _____ State _____ ZIP _____

3) Date of birth ____/ ____/ ____

4) Date hired ____/ ____/ ____

5) ☐ Male
☐ Female

Information about the physician or other health care professional

6) Name of physician or other health care professional _____

_____

7) If treatment was given away from the worksite, where was it given?

Facility _____

Street _____

City _____ State _____ ZIP _____

8) Was employee treated in an emergency room?
☐ Yes
☐ No

9) Was employee hospitalized overnight as an in-patient?
☐ Yes
☐ No

Information about the case

10) Case number from the *Log* _____ *(Transfer the case number from the Log after you record the case.)*

11) Date of injury or illness ____/ ____/ ____

12) Time employee began work _____ AM / PM

13) Time of event _____ AM / PM ☐ Check if time cannot be determined

14) ***What was the employee doing just before the incident occurred?*** Describe the activity, as well as the tools, equipment, or material the employee was using. Be specific. *Examples:* "climbing a ladder while carrying roofing materials"; "spraying chlorine from hand sprayer"; "daily computer key-entry."

15) ***What happened?*** Tell us how the injury occurred. *Examples:* "When ladder slipped on wet floor, worker fell 20 feet"; "Worker was sprayed with chlorine when gasket broke during replacement"; "Worker developed soreness in wrist over time."

16) ***What was the injury or illness?*** Tell us the part of the body that was affected and how it was affected; be more specific than "hurt," "pain," or sore." *Examples:* "strained back"; "chemical burn, hand"; "carpal tunnel syndrome."

17) ***What object or substance directly harmed the employee?*** *Examples:* "concrete floor"; "chlorine"; "radial arm saw." *If this question does not apply to the incident, leave it blank.*

18) ***If the employee died, when did death occur?*** Date of death ____/ ____/ ____

Public reporting burden for this collection of information is estimated to average 22 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Persons are not required to respond to the collection of information unless it displays a current valid OMB control number. If you have any comments about this estimate or any other aspects of this data collection, including suggestions for reducing this burden, contact: US Department of Labor, OSHA Office of Statistical Analysis, Room N-3644, 200 Constitution Avenue, NW, Washington, DC 20210. Do not send the completed forms to this office.

OSHA's Form 300 (Rev. 01/2004)

Log of Work-Related Injuries and Illnesses

Attention: This form contains information relating to employee health and must be used in a manner that protects the confidentiality of employees to the extent possible while the information is being used for occupational safety and health purposes.

Year 20__ __

U.S. Department of Labor
Occupational Safety and Health Administration

Form approved OMB no. 1218-0176

You must record information about every work-related death and about every work-related injury or illness that involves loss of consciousness, restricted work activity or job transfer, days away from work, or medical treatment beyond first aid. You must also record significant work-related injuries and illnesses that are diagnosed by a physician or licensed health care professional. You must also record work-related injuries and illnesses that meet any of the specific recording criteria listed in 29 CFR Part 1904.8 through 1904.12. Feel free to use two lines for a single case if you need to. You must complete an Injury and Illness Incident Report (OSHA Form 301) or equivalent form for each injury or illness recorded on this form. If you're not sure whether a case is recordable, call your local OSHA office for help.

Establishment name _____

City _____ State _____

Identify the person			Describe the case			Classify the case (CHECK ONLY ONE box for each case based on the most serious outcome for that case:)				Enter the number of days the injured or ill worker was:		Check the "Injury" column or choose one type of illness:					
								Remained at Work				(M)					
(A) Case no.	(B) Employee's name	(C) Job title (*e.g., Welder*)	(D) Date of injury or onset of illness	(E) Where the event occurred (*e.g., Loading dock north end*)	(F) Describe injury or illness, parts of body affected, and object/substance that directly injured or made person ill (*e.g., Second degree burns on right forearm from acetylene torch*)	Death (G)	Days away from work (H)	Job transfer or restriction (I)	Other recordable cases (J)	Away from work (K)	On job transfer or restriction (L)	Injury (1)	Skin disorder (2)	Respiratory condition (3)	Poisoning (4)	Hearing loss (5)	All other illnesses (6)
____			__/__ month/day			☐	☐	☐	☐	____ days	____ days	☐	☐	☐	☐	☐	☐
____			__/__ month/day			☐	☐	☐	☐	____ days	____ days	☐	☐	☐	☐	☐	☐
____			__/__ month/day			☐	☐	☐	☐	____ days	____ days	☐	☐	☐	☐	☐	☐
____			__/__ month/day			☐	☐	☐	☐	____ days	____ days	☐	☐	☐	☐	☐	☐
____			__/__ month/day			☐	☐	☐	☐	____ days	____ days	☐	☐	☐	☐	☐	☐
____			__/__ month/day			☐	☐	☐	☐	____ days	____ days	☐	☐	☐	☐	☐	☐
____			__/__ month/day			☐	☐	☐	☐	____ days	____ days	☐	☐	☐	☐	☐	☐
____			__/__ month/day			☐	☐	☐	☐	____ days	____ days	☐	☐	☐	☐	☐	☐
____			__/__ month/day			☐	☐	☐	☐	____ days	____ days	☐	☐	☐	☐	☐	☐
____			__/__ month/day			☐	☐	☐	☐	____ days	____ days	☐	☐	☐	☐	☐	☐
____			__/__ month/day			☐	☐	☐	☐	____ days	____ days	☐	☐	☐	☐	☐	☐
____			__/__ month/day			☐	☐	☐	☐	____ days	____ days	☐	☐	☐	☐	☐	☐
____			__/__ month/day			☐	☐	☐	☐	____ days	____ days	☐	☐	☐	☐	☐	☐
Page totals ➤						____	____	____	____	____	____	____	____	____	____	____	____

Be sure to transfer these totals to the Summary page (Form 300A) before you post it.

Public reporting burden for this collection of information is estimated to average 14 minutes per response, including time to review the instructions, search and gather the data needed, and complete and review the collection of information. Persons are not required to respond to the collection of information unless it displays a currently valid OMB control number. If you have any comments about these estimates or any other aspects of this data collection, contact: US Department of Labor, OSHA Office of Statistical Analysis, Room N-3644, 200 Constitution Avenue, NW, Washington, DC 20210. Do not send the completed forms to this office.

Injury (1) Skin disorder (2) Respiratory condition (3) Poisoning (4) Hearing loss (5) All other illnesses (6)

OSHA's Form 300A (Rev. 01/2004)

Summary of Work-Related Injuries and Illnesses

Year 20__ __

U.S. Department of Labor
Occupational Safety and Health Administration

Form approved OMB no. 1218-0176

All establishments covered by Part 1904 must complete this Summary page, even if no work-related injuries or illnesses occurred during the year. Remember to review the Log to verify that the entries are complete and accurate before completing this summary.

Using the Log, count the individual entries you made for each category. Then write the totals below, making sure you've added the entries from every page of the Log. If you had no cases, write "0."

Employees, former employees, and their representatives have the right to review the OSHA Form 300 in its entirety. They also have limited access to the OSHA Form 301 or its equivalent. See 29 CFR Part 1904.35, in OSHA's recordkeeping rule, for further details on the access provisions for these forms.

Number of Cases

Total number of deaths	Total number of cases with days away from work	Total number of cases with job transfer or restriction	Total number of other recordable cases
_____	_____	_____	_____
(G)	(H)	(I)	(J)

Number of Days

Total number of days away from work	Total number of days of job transfer or restriction
_____	_____
(K)	(L)

Injury and Illness Types

Total number of . . .	(M)		
(1) Injuries	_____	(4) Poisonings	_____
		(5) Hearing loss	_____
(2) Skin disorders	_____	(6) All other illnesses	_____
(3) Respiratory conditions	_____		

Post this Summary page from February 1 to April 30 of the year following the year covered by the form.

Public reporting burden for this collection of information is estimated to average 58 minutes per response, including time to review the instructions, search and gather the data needed, and complete and review the collection of information. Persons are not required to respond to the collection of information unless it displays a currently valid OMB control number. If you have any comments about these estimates or any other aspects of this data collection, contact: US Department of Labor, OSHA Office of Statistical Analysis, Room N-3644, 200 Constitution Avenue, NW, Washington, DC 20210. Do not send the completed forms to this office.

Establishment information

Your establishment name _____

Street _____

City _____ State _____ ZIP _____

Industry description (*e.g., Manufacture of motor truck trailers*)

_____

Standard Industrial Classification (SIC), if known (*e.g., 3715*)

__ __ __ __

OR

North American Industrial Classification (NAICS), if known (e.g., 336212)

__ __ __ __ __ __

Employment information *(If you don't have these figures, see the Worksheet on the back of this page to estimate.)*

Annual average number of employees _____

Total hours worked by all employees last year _____

Sign here

Knowingly falsifying this document may result in a fine.

I certify that I have examined this document and that to the best of my knowledge the entries are true, accurate, and complete.

_____ _____
Company executive Title

( ) - / /
Phone Date

Attachment 5:
Signatory Page

Attachment 5 – Site-Specific Health and Safety Orientation Signatory Page
HEALTH AND SAFETY PLAN

Title	Name	Signature
Project Manager:	TBD	
Health and Safety Manager:	TBD	

I have read the attached Health and Safety Plan (HASP) and have received site-specific information and orientation regarding the identified physical, chemical, and biological hazards anticipated at this site. My signature certifies that I understand the procedures, equipment, and restrictions applicable to this project site and agree to abide by them.

Signature	Printed Name	Company	Date

Attachment 5– Health and Safety Orientation Signatory Page (continued)

Signature	Printed Name	Company	Date

Attachment 6:

Safety Data Sheets

SAFETY DATA SHEET

Version 6.3
Revision Date 10/11/2020
Print Date 06/20/2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : 1,2,4,5-Tetramethylbenzene

Product Number : T19607
Brand : Aldrich
CAS-No. : 95-93-2

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable solids (Category 1), H228

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)
H228 Flammable solid.

Precautionary statement(s)
P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

	smoking.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms	:	Durene 1,2,4,5-Tetramethylbenzene
Formula	:	$C_{10}H_{14}$
Molecular weight	:	134.22 g/mol
CAS-No.	:	95-93-2
EC-No.	:	202-465-7

No components need to be disclosed according to the applicable regulations.

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice
Consult a physician. Show this material safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal. Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): 4.1B: Flammable solid hazardous materials

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: crystalline Color: colorless
b)	Odor	No data available
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 76 - 80 °C (169 - 176 °F) - lit.
f)	Initial boiling point and boiling range	No data available
g)	Flash point	74 °C (165 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	The substance or mixture is a flammable solid with the category 1.
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	No data available
l)	Vapor density	No data available
m)	Relative density	0.838 g/mL at 25 °C (77 °F)
n)	Water solubility	0.00348 g/l at 25 °C (77 °F)
o)	Partition coefficient: n-octanol/water	log Pow: 4.17
p)	Autoignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

SECTION 10: Stability and reactivity

10.1 Reactivity
No data available

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
Heat, flames and sparks. Extremes of temperature and direct sunlight.

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - No data available
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 6,700 mg/kg
Remarks: (RTECS)

Skin corrosion/irritation

Serious eye damage/eye irritation

Respiratory or skin sensitization

Germ cell mutagenicity

Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity

Specific target organ toxicity - single exposure

Specific target organ toxicity - repeated exposure

Aspiration hazard

Additional Information
RTECS: DC0500000

The data available to us do not suffice to permit any industrial-toxicological assessment.
Further toxicological data:
Risk of absorption.
Other dangerous properties can not be excluded.
Further data:

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	LC0 - Leuciscus idus (Golden orfe) - 10 mg/l - 48 h Remarks: (ECOTOX Database) LC50 - Leuciscus idus (Golden orfe) - 30 mg/l - 48 h Remarks: (ECOTOX Database) LC100 - Leuciscus idus (Golden orfe) - 50 mg/l - 48 h Remarks: (ECOTOX Database)
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 0.47 mg/l - 48 h Remarks: (External MSDS)

12.2 Persistence and degradability
Not readily biodegradable.

12.3 Bioaccumulative potential

12.4 Mobility in soil

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Discharge into the environment must be avoided.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product.

SECTION 14: Transport information

DOT (US)
UN number: 1325 Class: 4.1 Packing group: II
Proper shipping name: Flammable solids, organic, n.o.s. (1,2,4,5-tetramethylbenzene)
Reportable Quantity (RQ):
Poison Inhalation Hazard: No

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

IMDG
UN number: 1325 Class: 4.1 Packing group: II EMS-No: F-A, S-G
Proper shipping name: FLAMMABLE SOLID, ORGANIC, N.O.S. (1,2,4,5-tetramethylbenzene)

IATA
UN number: 1325 Class: 4.1 Packing group: II
Proper shipping name: Flammable solid, organic, n.o.s. (1,2,4,5-tetramethylbenzene)

SECTION 15: Regulatory information

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Fire Hazard

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

1,2,4,5-tetramethylbenzene	CAS-No. 95-93-2	Revision Date

New Jersey Right To Know Components

1,2,4,5-tetramethylbenzene	CAS-No. 95-93-2	Revision Date

California Prop. 65 Components
This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

SECTION 16: Other information

Further information
Copyright 2020 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact mlsbranding@sial.com.

Version: 6.3 Revision Date: 10/11/2020 Print Date: 06/20/2021

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

SAFETY DATA SHEET

Creation Date 01-Feb-2005 **Revision Date** 24-Dec-2021 **Revision Number** 5

1. Identification

Product Name **1,2,4-Trimethylbenzene**

Cat No. : **AC140090000; AC140090010; AC140090025; AC140090100; AC140090250**

CAS No 95-63-6
Synonyms Pseudocumene

Recommended Use Laboratory chemicals.
Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company
Fisher Scientific Company
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 3
Acute Inhalation Toxicity - Vapors	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system.	

Label Elements

Signal Word
Warning

Hazard Statements

Flammable liquid and vapor
Causes skin irritation
Causes serious eye irritation
Harmful if inhaled
May cause respiratory irritation

Precautionary Statements
Prevention
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Keep cool
Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor/physician if you feel unwell
Skin
If skin irritation occurs: Get medical advice/attention
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
Fire
In case of fire: Use CO2, dry chemical, or foam for extinction
Storage
Store in a well-ventilated place. Keep container tightly closed
Store locked up
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Toxic to aquatic life with long lasting effects

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Benzene, 1,2,4-trimethyl-	95-63-6	> 95

4. First-aid measures

General Advice If symptoms persist, call a physician.

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.
Ingestion	Clean mouth with water and drink afterwards plenty of water.
Most important symptoms and effects	Difficulty in breathing. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting
Notes to Physician	Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam. Water mist may be used to cool closed containers.
Unsuitable Extinguishing Media	No information available
Flash Point	48 °C / 118.4 °F
Method -	No information available
Autoignition Temperature	500 °C / 932 °F

Explosion Limits

Upper	6.4%
Lower	0.9%
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical
Flammable. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Vapors may form explosive mixtures with air.

Hazardous Combustion Products
Carbon monoxide (CO). Carbon dioxide (CO_2).
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
2	2	0	N/A

6. Accidental release measures

Personal Precautions	Ensure adequate ventilation. Use personal protective equipment as required. Remove all sources of ignition. Take precautionary measures against static discharges.
Environmental Precautions	Do not flush into surface water or sanitary sewer system.
Methods for Containment and Clean Up	Keep in suitable, closed containers for disposal. Soak up with inert absorbent material. Remove all sources of ignition. Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment.

7. Handling and storage

Handling Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Use spark-proof tools and explosion-proof equipment. Take precautionary measures against static discharges.

Storage. Keep away from heat, sparks and flame. Flammables area. Keep container tightly closed in a dry and well-ventilated place. Incompatible Materials. Oxidizing agent.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Benzene, 1,2,4-trimethyl-			TWA: 25 ppm TWA: 125 mg/m^3	

Legend

NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/lighting equipment.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Liquid
Appearance	Colorless
Odor	aromatic
Odor Threshold	No information available
pH	No information available
Melting Point/Range	-44 °C / -47.2 °F
Boiling Point/Range	168 °C / 334.4 °F @ 760 mmHg
Flash Point	48 °C / 118.4 °F
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	6.4%
Lower	0.9%
Vapor Pressure	7 mmHg @ 44.4 °C
Vapor Density	4.15 (Air = 1.0)
Specific Gravity	0.880
Solubility	Insoluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	500 °C / 932 °F

Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C9 H12
Molecular Weight	120.19

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability No information available.

Conditions to Avoid Keep away from open flames, hot surfaces and sources of ignition. Incompatible products.

Incompatible Materials Oxidizing agent

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO_2)

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Benzene, 1,2,4-trimethyl-	LD50 = 3280 mg/kg (Rat)	LD50 > 3160 mg/kg (Rabbit)	LC50 = 18 g/m³ (Rat) 4 h

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Irritating to eyes, respiratory system and skin

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Benzene, 1,2,4-trimethyl-	95-63-6	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure Respiratory system

STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

The product contains following substances which are hazardous for the environment. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Benzene, 1,2,4-trimethyl-	Not listed	LC50: 7.19 - 8.28 mg/L, 96h flow-through (Pimephales promelas)	Not listed	EC50: = 6.14 mg/L, 48h (Daphnia magna)

Persistence and Degradability Persistence is unlikely

Bioaccumulation/ Accumulation No information available.

Mobility . Is not likely mobile in the environment due its low water solubility.

Component	log Pow
Benzene, 1,2,4-trimethyl-	3.63

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT

UN-No UN1993
Proper Shipping Name Flammable liquid, n.o.s.
Technical Name Benzene, 1,2,4-trimethyl-
Hazard Class 3
Packing Group III

TDG

UN-No UN1993
Proper Shipping Name Flammable liquid, n.o.s.
Hazard Class 3
Packing Group III

IATA

UN-No UN1993
Proper Shipping Name Flammable liquid, n.o.s.
Hazard Class 3
Packing Group III

IMDG/IMO

UN-No UN1993
Proper Shipping Name Flammable liquid, n.o.s.
Hazard Class 3
Packing Group III

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Benzene, 1,2,4-trimethyl-	95-63-6	X	ACTIVE	-

Legend:
TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)
X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Benzene, 1,2,4-trimethyl-	95-63-6	X	-	202-436-9	X	X	X	X	X	KE-34410

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313

Component	CAS No	Weight %	SARA 313 - Threshold Values %
Benzene, 1,2,4-trimethyl-	95-63-6	> 95	1.0

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

OSHA - Occupational Safety and Health Administration Not applicable

CERCLA Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Benzene, 1,2,4-trimethyl-	X	X	X	X	-

U.S. Department of Transportation

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Benzene, 1,2,4-trimethyl-	-	Use restricted. See item 75. (see link for restriction details)	-

https://echa.europa.eu/substances-restricted-under-reach

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Benzene, 1,2,4-trimethyl-	95-63-6	Listed	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Benzene, 1,2,4-trimethyl-	95-63-6	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information

Prepared By
Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Creation Date 01-Feb-2005
Revision Date 24-Dec-2021
Print Date 24-Dec-2021
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS

SAFETY DATA SHEET

Creation Date 22-Jun-2009 **Revision Date** 26-Dec-2021 **Revision Number** 6

1. Identification

Product Name **2,2,4-Trimethylpentane**

Cat No. : **AC421980000; AC421980025; AC421980040; AC421985000**

CAS No 540-84-1
Synonyms Isooctane

Recommended Use Laboratory chemicals.
Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

Fisher Scientific Company
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 2
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Central nervous system (CNS).	
Aspiration Toxicity	Category 1

Label Elements

Signal Word
Danger

Hazard Statements
Highly flammable liquid and vapor

May be fatal if swallowed and enters airways
Causes skin irritation
Causes serious eye irritation
May cause drowsiness or dizziness

Precautionary Statements
Prevention
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Do not breathe dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Keep cool
Response
Get medical attention/advice if you feel unwell
Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor/physician if you feel unwell
Skin
If skin irritation occurs: Get medical advice/attention
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
Ingestion
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Do NOT induce vomiting
Fire
In case of fire: Use CO2, dry chemical, or foam for extinction
Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Very toxic to aquatic life with long lasting effects

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Isooctane	540-84-1	>95

4. First-aid measures

General Advice If symptoms persist, call a physician.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur. Risk of serious damage to the lungs (by aspiration).

Ingestion Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Call a physician or poison control center immediately. If vomiting occurs naturally, have victim lean forward.

Most important symptoms and effects None reasonably foreseeable. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam. Water mist may be used to cool closed containers.

Unsuitable Extinguishing Media Water may be ineffective, Do not use a solid water stream as it may scatter and spread fire

Flash Point -12 °C / 10.4 °F

Method - No information available

Autoignition Temperature 410 °C / 770 °F

Explosion Limits

Upper	6.0 vol %
Lower	1.1 vol %
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical
Flammable. Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Vapors may form explosive mixtures with air. Do not allow run-off from fire-fighting to enter drains or water courses.

Hazardous Combustion Products
Carbon monoxide (CO). Carbon dioxide (CO_2).
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
3	3	0	N/A

6. Accidental release measures

Personal Precautions Use personal protective equipment as required. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.

Environmental Precautions Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

Methods for Containment and Clean Up Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

7. Handling and storage

Handling Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges.

Storage. Keep away from open flames, hot surfaces and sources of ignition. Keep containers tightly closed in a dry, cool and well-ventilated place. Flammables area. Keep away from heat, sparks and flame. Incompatible Materials. Strong oxidizing agents. Strong acids. Strong bases.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Isooctane	TWA: 300 ppm			TWA: 300 ppm

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

Engineering Measures Use only under a chemical fume hood. Use explosion-proof electrical/ventilating/lighting equipment. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Liquid
Appearance	Colorless
Odor	Petroleum distillates
Odor Threshold	No information available
pH	Not applicable
Melting Point/Range	-107 °C / -160.6 °F
Boiling Point/Range	98 - 99 °C / 208.4 - 210.2 °F @ 760 mmHg
Flash Point	-12 °C / 10.4 °F
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable

Flammability or explosive limits	
Upper	6.0 vol %
Lower	1.1 vol %
Vapor Pressure	51 mbar @ 20 °C
Vapor Density	3.94
Specific Gravity	0.690
Solubility	Immiscible
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	410 °C / 770 °F
Decomposition Temperature	No information available
Viscosity	0.51 mPa s at 22 °C
Molecular Formula	C8 H18
Molecular Weight	114.23

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products. Heat, flames and sparks. Keep away from open flames, hot surfaces and sources of ignition.

Incompatible Materials Strong oxidizing agents, Strong acids, Strong bases

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO_2)

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Isooctane	LD50 5000 mg/kg (Rat)	2000 mg/kg (Rabbit)	LC50 = 33.52 mg/L (Rat) 4 h

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Irritating to eyes, respiratory system and skin

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Isooctane	540-84-1	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure Central nervous system (CNS)

STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Isooctane	EC50= 2.94 mg/l, 72h	LC50 = 0.11 mg/l, 96h, (Rainbow trout)	Not listed	EC50= 0.4 mg/l, 48h (Daphnia magna)

Persistence and Degradability Insoluble in water Persistence is unlikely based on information available. Immiscible with water

Bioaccumulation/ Accumulation No information available.

Mobility Will likely be mobile in the environment due to its volatility. Is not likely mobile in the environment due its low water solubility.

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT

UN-No UN1262
Proper Shipping Name OCTANES
Hazard Class 3
Packing Group II

TDG

UN-No UN1262
Proper Shipping Name OCTANES
Hazard Class 3
Packing Group II

IATA

UN-No UN1262
Proper Shipping Name OCTANES
Hazard Class 3
Packing Group II

IMDG/IMO

UN-No UN1262
Proper Shipping Name OCTANES
Hazard Class 3
Packing Group II

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification -	TSCA - EPA Regulatory

			Active-Inactive	Flags
Isooctane	540-84-1	X	ACTIVE	-

Legend:
TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)
X - Listed
'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories
Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Isooctane	540-84-1	X	-	208-759-1	X	X	X	X	X	KE-34634

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Isooctane	X		-

OSHA - Occupational Safety and Health Administration Not applicable

CERCLA This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Isooctane	1000 lb	-

California Proposition 65 This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Isooctane	X	X	X	X	-

U.S. Department of Transportation
Reportable Quantity (RQ): Y
DOT Marine Pollutant Y
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade Serious risk, Grade 3

Authorisation/Restrictions according to EU REACH

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Isooctane	-	Use restricted. See item 75. (see link for restriction details)	-

https://echa.europa.eu/substances-restricted-under-reach

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Isooctane	540-84-1	Listed	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Isooctane	540-84-1	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information

Prepared By
Regulatory Affairs
Acros Organics BVBA
Tel: 800-ACROS-01

Creation Date 22-Jun-2009
Revision Date 26-Dec-2021
Print Date 26-Dec-2021
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS

SAFETY DATA SHEET

Version 4.16
Revision Date 06/21/2018
Print Date 06/28/2019

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : 2-Butanone

Product Number : 443468
Brand : Sigma-Aldrich
Index-No. : 606-002-00-3

CAS-No. : 78-93-3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable liquids (Category 2), H225
Eye irritation (Category 2A), H319
Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Precautionary statement(s)
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/ eye protection/ face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	Methyl ethyl ketone MEK Ethyl methyl ketone
Formula	:	C_4H_8O
Molecular weight	:	72.11 g/mol
CAS-No.	:	78-93-3
EC-No.	:	201-159-0
Index-No.	:	606-002-00-3
Registration number	:	01-2119457290-43-XXXX

Hazardous components

Component	Classification	Concentration
Ethyl methyl ketone		
	Flam. Liq. 2; Eye Irrit. 2A; STOT SE 3; H225, H319, H336	90 - 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Dry powder Dry sand

Unsuitable extinguishing media
Do NOT use water jet.

5.2 Special hazards arising from the substance or mixture
Flash back possible over considerable distance., Container explosion may occur under fire conditions.

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Use explosion-proof equipment.Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Store under inert gas. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Hygroscopic.
Storage class (TRGS 510): 3: Flammable liquids

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Ethyl methyl ketone	78-93-3	TWA	200 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Central Nervous System impairment Upper Respiratory Tract irritation Peripheral Nervous System impairment Substances for which there is a Biological Exposure Index or Indices (see BEI® section)		
		STEL	300 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Upper Respiratory Tract irritation Peripheral Nervous System impairment Substances for which there is a Biological Exposure Index or Indices (see BEI® section)		
		TWA	200 ppm 590 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	300 ppm 885 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	200 ppm 590 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		The value in mg/m3 is approximate.		
		PEL	200 ppm 590 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		STEL	300 ppm 885 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
	-	methyl ethyl ketone	2 mg/l	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift (As soon as possible after exposure ceases)			

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Splash contact
Material: butyl-rubber
Minimum layer thickness: 0.3 mm
Break through time: 292 min
Material tested:Butoject® (KCL 897 / Aldrich Z677647, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Impervious clothing, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid, clear Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	-87 °C (-125 °F)
f)	Initial boiling point and boiling range	80 °C (176 °F) - lit.
g)	Flash point	-3 °C (27 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 10.1 %(V) Lower explosion limit: 1.8 %(V)
k)	Vapour pressure	95 hPa (71 mmHg) at 20 °C (68 °F)
l)	Vapour density	2.49 - (Air = 1.0)
m)	Relative density	0.805 g/mL at 25 °C (77 °F)
n)	Water solubility	soluble
o)	Partition coefficient: n-octanol/water	log Pow: 0.29
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

Surface tension	24.6 mN/m at 20 °C (68 °F)
Relative vapour density	2.49 - (Air = 1.0)

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Vapours may form explosive mixture with air.

10.4 Conditions to avoid
Exposure to moisture
Heat, flames and sparks.

10.5 Incompatible materials
Oxidizing agents, Strong reducing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 2,737 mg/kg

LC50 Inhalation - Mouse - 4 h - 32,000 mg/m3

LC50 Inhalation - Mammal - 38,000 mg/m3

LD50 Dermal - Rabbit - 6,480 mg/kg

No data available

Skin corrosion/irritation
Skin - Rabbit
Result: No skin irritation
(OECD Test Guideline 404)

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Irritating to eyes.
(OECD Test Guideline 405)

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: EL6475000

Central nervous system depression, Gastrointestinal disturbance, narcosis

Liver - Irregularities - Based on Human Evidence
Liver - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	mortality NOEC - Cyprinodon variegatus (sheepshead minnow) - 400 mg/l - 96 h
	LC50 - Pimephales promelas (fathead minnow) - 3,130 - 3,320 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	LC50 - Daphnia magna (Water flea) - > 520 mg/l - 48 h
	EC50 - Daphnia magna (Water flea) - 7,060 mg/l - 24 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1193 Class: 3 Packing group: II
Proper shipping name: Ethyl methyl ketone
Reportable Quantity (RQ): 5000 lbsReportable Quantity (RQ): 5000 lbsReportable Quantity (RQ): 100 lbs
Poison Inhalation Hazard: No

IMDG
UN number: 1193 Class: 3 Packing group: II EMS-No: F-E, S-D
Proper shipping name: ETHYL METHYL KETONE

IATA

UN number: 1193 Class: 3 Packing group: II
Proper shipping name: Ethyl methyl ketone

15. REGULATORY INFORMATION

SARA 302 Components
This material does not contain any components with a section 302 EHS TPQ.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Reportable Quantity	D035 lbs
	F005 lbs

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Ethyl methyl ketone	78-93-3	1993-02-16

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Ethyl methyl ketone	78-93-3	1993-02-16

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquids
H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
STOT SE	Specific target organ toxicity - single exposure

Further information
Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information
Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.16 Revision Date: 06/21/2018 Print Date: 06/28/2019

SAFETY DATA SHEET

Version 5.6
Revision Date 05/07/2018
Print Date 01/21/2019

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	4,4′-DDT
Product Number	:	31041
Brand	:	Sigma-Aldrich
Index-No.	:	602-045-00-7
CAS-No.	:	50-29-3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	+1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 3), H301
Acute toxicity, Dermal (Category 3), H311
Carcinogenicity (Category 2), H351
Specific target organ toxicity - repeated exposure, Oral (Category 1), H372
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)

H301 + H311	Toxic if swallowed or in contact with skin.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure if swallowed.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and

	understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing.
P281	Use personal protective equipment as required.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.
P302 + P352 + P312	IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/ physician if you feel unwell.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P361	Remove/Take off immediately all contaminated clothing.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms : 1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane
1,1-Bis(4-chlorophenyl)-2,2,2-trichloroethane

Formula : $C_{14}H_9Cl_5$
Molecular weight : 354.49 g/mol
CAS-No. : 50-29-3
EC-No. : 200-024-3
Index-No. : 602-045-00-7

Hazardous components

Component	Classification	Concentration
1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane		
	Acute Tox. 3; Carc. 2; STOT RE 1; Aquatic Acute 1; Aquatic Chronic 1; H301 + H311, H351, H372, H410	90 - 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): 6.1D: Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane	50-29-3	TWA	1 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Liver damage Confirmed animal carcinogen with unknown relevance to humans		

		TWA	0.5 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A		
		TWA	1 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Skin designation		
		PEL	1 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		Skin		

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance Form: solid

b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 107 - 110 °C (225 - 230 °F) - lit.
f)	Initial boiling point and boiling range	260.0 °C (500.0 °F)
g)	Flash point	72.0 - 77.0 °C (161.6 - 170.6 °F)
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	0.0000021 hPa (0.0000016 mmHg) at 20.0 °C (68.0 °F)
l)	Vapour density	No data available
m)	Relative density	0.99 g/cm3
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	log Pow: 6.91
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Oxidizing agents, Iron and iron salts.

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - 87.0 mg/kg

Inhalation: No data available

LD50 Dermal - Rabbit - 300.0 mg/kg
Remarks: Behavioral:Tremor. Behavioral:Muscle weakness. Behavioral:Ataxia.

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

Limited evidence of carcinogenicity in animal studies

IARC:	2A - Group 2A: Probably carcinogenic to humans (1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane)
IARC:	2A - Group 2A: Probably carcinogenic to humans (1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane)
NTP:	RAHC - Reasonably anticipated to be a human carcinogen (1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane)
NTP:	RAHC - Reasonably anticipated to be a human carcinogen (1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane)
OSHA:	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
Ingestion - Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard
No data available

Additional Information
RTECS: KJ3325000

CNS stimulation.

Pancreas. -

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - 0.01 mg/l - 96.0 h
	LC50 - Lepomis macrochirus (Bluegill) - 0.01 mg/l - 96.0 h
	LC50 - Oncorhynchus mykiss (rainbow trout) - 0.003400 mg/l - 96.0 h
	LOEC - Oncorhynchus mykiss (rainbow trout) - 150 mg/l - 3.0 d
	NOEC - Oncorhynchus mykiss (rainbow trout) - 113 mg/l - 3.0 d
Toxicity to daphnia and other aquatic invertebrates	Immobilization EC50 - Daphnia magna (Water flea) - 0.00108 mg/l - 48 h
Toxicity to algae	LC100 - Scenedesmus quadricauda (Green algae) - > 20 mg/l - 7 d

12.2 Persistence and degradability

12.3 Bioaccumulative potential

Bioaccumulation	Oncorhynchus mykiss (rainbow trout) - 20 d - 0.001 mg/l
	Bioconcentration factor (BCF): 46,670

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN number: 2811 Class: 6.1 Packing group: III
Proper shipping name: Toxic solids, organic, n.o.s. (1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane)
Reportable Quantity (RQ): 1 lbsMarine pollutant:yes
Poison Inhalation Hazard: No

IMDG

UN number: 2811 Class: 6.1 Packing group: III EMS-No: F-A, S-A
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane)
Marine pollutant:yes

IATA

UN number: 2811 Class: 6.1 Packing group: III
Proper shipping name: Toxic solid, organic, n.o.s. (1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane)

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane	50-29-3	1993-02-16

	CAS-No.	Revision Date
1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane	50-29-3	1993-02-16

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane	50-29-3	1993-02-16

	CAS-No.	Revision Date
1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane	50-29-3	1993-02-16

	CAS-No.	Revision Date
1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane	50-29-3	1993-02-16

New Jersey Right To Know Components

	CAS-No.	Revision Date
1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane	50-29-3	1993-02-16

	CAS-No.	Revision Date
1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane	50-29-3	1993-02-16

California Prop. 65 Components

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause cancer. 1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane	50-29-3	2008-06-17
WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. 1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane	50-29-3	2008-06-17
WARNING! This product contains a chemical known to the State of California to cause cancer. 1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane	50-29-3	2008-06-17
WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. 1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane	50-29-3	2008-06-17

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
H301	Toxic if swallowed.
H301 + H311	Toxic if swallowed or in contact with skin.
H311	Toxic in contact with skin.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure if swallowed.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	2
Reactivity Hazard:	0

Further information

Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.6 Revision Date: 05/07/2018 Print Date: 01/21/2019

SAFETY DATA SHEET

Version 5.5
Revision Date 06/13/2014
Print Date 10/19/2018

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : 4,4′-DDD

Product Number : 49009
Brand : Supelco

CAS-No. : 72-54-8

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 3), H301
Acute toxicity, Dermal (Category 4), H312
Carcinogenicity (Category 2), H351
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)
H301 Toxic if swallowed.
H312 Harmful in contact with skin.
H351 Suspected of causing cancer.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.

P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P322	Specific measures (see supplemental first aid instructions on this label).
P330	Rinse mouth.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms : 1,1-Dichloro-2,2-bis(4-chlorophenyl)ethane

Formula : $C_{14}H_{10}Cl_4$

Molecular Weight : 320.04 g/mol

CAS-No. : 72-54-8

EC-No. : 200-783-0

Hazardous components

Component	Classification	Concentration
2,2-bis(4-Chlorophenyl)-1,1-dichloro-ethane		
	Acute Tox. 3; Acute Tox. 4; Carc. 2; Aquatic Acute 1; Aquatic Chronic 1; H301, H312, H351, H410	-

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
no data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Hydrogen chloride gas
Nature of decomposition products not known.

5.3 Advice for firefighters
Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information
no data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.Normal measures for preventive fire protection.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odour	no data available
c)	Odour Threshold	no data available
d)	pH	no data available
e)	Melting point/freezing point	94.0 - 96.0 °C (201.2 - 204.8 °F)
f)	Initial boiling point and boiling range	193.0 °C (379.4 °F) at 1.3 hPa (1.0 mmHg)
g)	Flash point	no data available
h)	Evapouration rate	no data available
i)	Flammability (solid, gas)	no data available
j)	Upper/lower flammability or explosive limits	no data available
k)	Vapour pressure	< 0.00001 hPa (< 0.00001 mmHg) at 25.0 °C (77.0 °F)
l)	Vapour density	no data available
m)	Relative density	1.38 g/cm3
n)	Water solubility	no data available
o)	Partition coefficient: n-octanol/water	log Pow: 6.02
p)	Auto-ignition temperature	no data available
q)	Decomposition temperature	no data available
r)	Viscosity	no data available
s)	Explosive properties	no data available
t)	Oxidizing properties	no data available

9.2 Other safety information
no data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
no data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
no data available

10.4 Conditions to avoid
no data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - no data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Hamster - > 5,000 mg/kg

TDLo Oral - Human - 428.5 mg/kg
Remarks: Endocrine:Adrenal cortex hypoplasia.

TDLo Oral - rat - 6,000 mg/kg
Remarks: Cardiac:Other changes. Gastrointestinal:Other changes. Kidney, Ureter, Bladder:Changes in both tubules and glomeruli.

TDLo Oral - rat - 14 mg/kg
Remarks: Liver:Changes in liver weight. Endocrine:Estrogenic. Musculoskeletal:Other changes.

TDLo Oral - rat - 2,100 mg/kg
Remarks: Behavioral:Altered sleep time (including change in righting reflex).

Inhalation: no data available

LD50 Dermal - rabbit - 1,200 mg/kg
Remarks: Behavioral:Excitement. Behavioral:Convulsions or effect on seizure threshold. Skin irritation

no data available

Skin corrosion/irritation
no data available

Serious eye damage/eye irritation
no data available

Respiratory or skin sensitisation
no data available

no data available

Germ cell mutagenicity
no data available

Carcinogenicity

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
no data available

no data available

Specific target organ toxicity - single exposure
no data available

Specific target organ toxicity - repeated exposure
no data available

Aspiration hazard
no data available

Additional Information
RTECS: KI0700000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - other fish - 1.18 - 9 mg/l - 96.0 h
	LC50 - Lepomis macrochirus (Bluegill) - 0.04 - 0.05 mg/l - 96.0 h
	LC50 - Oncorhynchus mykiss (rainbow trout) - 0.06 - 0.09 mg/l - 96.0 h
	LC50 - Pimephales promelas (fathead minnow) - 3.47 - 5.58 mg/l - 96.0 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia pulex (Water flea) - 0.01 mg/l - 48 h

12.2 Persistence and degradability
no data available

12.3 Bioaccumulative potential
Indication of bioaccumulation.

12.4 Mobility in soil
no data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 2811 Class: 6.1 Packing group: III
Proper shipping name: Toxic solids, organic, n.o.s. (2,2-bis(4-Chlorophenyl)-1,1-dichloro-ethane)
Marine pollutant: No

Poison Inhalation Hazard: No

IMDG
UN number: 2811 Class: 6.1 Packing group: III EMS-No: F-A, S-A
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (2,2-bis(4-Chlorophenyl)-1,1-dichloro-ethane)
Marine pollutant: No

IATA
UN number: 2811 Class: 6.1 Packing group: III
Proper shipping name: Toxic solid, organic, n.o.s. (2,2-bis(4-Chlorophenyl)-1,1-dichloro-ethane)

15. REGULATORY INFORMATION

SARA 302 Components
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
2,2-bis(4-Chlorophenyl)-1,1-dichloro-ethane	72-54-8	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
2,2-bis(4-Chlorophenyl)-1,1-dichloro-ethane	72-54-8	1993-04-24

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
H301	Toxic if swallowed.
H312	Harmful in contact with skin.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0

Further information

Copyright 2014 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.5 Revision Date: 06/13/2014 Print Date: 10/19/2018

SAFETY DATA SHEET

Version 5.6
Revision Date 05/07/2018
Print Date 06/22/2019

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : 4,4′-DDT

Product Number : 386340
Brand : Aldrich
Index-No. : 602-045-00-7

CAS-No. : 50-29-3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 3), H301
Acute toxicity, Dermal (Category 3), H311
Carcinogenicity (Category 2), H351
Specific target organ toxicity - repeated exposure, Oral (Category 1), H372
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)
H301 + H311 Toxic if swallowed or in contact with skin.
H351 Suspected of causing cancer.
H372 Causes damage to organs through prolonged or repeated exposure if swallowed.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and

	understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing.
P281	Use personal protective equipment as required.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.
P302 + P352 + P312	IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/ physician if you feel unwell.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P361	Remove/Take off immediately all contaminated clothing.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane 1,1-Bis(4-chlorophenyl)-2,2,2-trichloroethane
Formula	:	$C_{14}H_9Cl_5$
Molecular weight	:	354.49 g/mol
CAS-No.	:	50-29-3
EC-No.	:	200-024-3
Index-No.	:	602-045-00-7

Hazardous components

Component	Classification	Concentration
1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane		
	Acute Tox. 3; Carc. 2; STOT RE 1; Aquatic Acute 1; Aquatic Chronic 1; H301 + H311, H351, H372, H410	90 - 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): 6.1D: Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane	50-29-3	TWA	1 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Liver damage Confirmed animal carcinogen with unknown relevance to humans		

		TWA	0.5 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A		
		TWA	1 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Skin designation		
		PEL	1 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		Skin		

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance Form: solid

b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 107 - 110 °C (225 - 230 °F) - lit.
f)	Initial boiling point and boiling range	260.0 °C (500.0 °F)
g)	Flash point	72.0 - 77.0 °C (161.6 - 170.6 °F)
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	0.0000021 hPa (0.0000016 mmHg) at 20.0 °C (68.0 °F)
l)	Vapour density	No data available
m)	Relative density	0.99 g/cm3
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	log Pow: 6.91
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Oxidizing agents, Iron and iron salts.

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - 87.0 mg/kg

Inhalation: No data available

LD50 Dermal - Rabbit - 300.0 mg/kg
Remarks: Behavioral:Tremor. Behavioral:Muscle weakness. Behavioral:Ataxia.

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

Limited evidence of carcinogenicity in animal studies

IARC:	2A - Group 2A: Probably carcinogenic to humans (1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane)
IARC:	2A - Group 2A: Probably carcinogenic to humans (1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane)
NTP:	RAHC - Reasonably anticipated to be a human carcinogen (1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane)
NTP:	RAHC - Reasonably anticipated to be a human carcinogen (1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane)
OSHA:	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
Ingestion - Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard
No data available

Additional Information
RTECS: KJ3325000

CNS stimulation.

Pancreas. -

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - 0.01 mg/l - 96.0 h
	LC50 - Lepomis macrochirus (Bluegill) - 0.01 mg/l - 96.0 h
	LC50 - Oncorhynchus mykiss (rainbow trout) - 0.003400 mg/l - 96.0 h
	LOEC - Oncorhynchus mykiss (rainbow trout) - 150 mg/l - 3.0 d
	NOEC - Oncorhynchus mykiss (rainbow trout) - 113 mg/l - 3.0 d
Toxicity to daphnia and other aquatic invertebrates	Immobilization EC50 - Daphnia magna (Water flea) - 0.00108 mg/l - 48 h
Toxicity to algae	LC100 - Scenedesmus quadricauda (Green algae) - > 20 mg/l - 7 d

12.2 Persistence and degradability

12.3 Bioaccumulative potential

Bioaccumulation	Oncorhynchus mykiss (rainbow trout) - 20 d - 0.001 mg/l
	Bioconcentration factor (BCF): 46,670

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN number: 2811 Class: 6.1 Packing group: III
Proper shipping name: Toxic solids, organic, n.o.s. (1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane)
Reportable Quantity (RQ): 1 lbsMarine pollutant:yes
Poison Inhalation Hazard: No

IMDG

UN number: 2811 Class: 6.1 Packing group: III EMS-No: F-A, S-A
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane)
Marine pollutant:yes

IATA

UN number: 2811 Class: 6.1 Packing group: III
Proper shipping name: Toxic solid, organic, n.o.s. (1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane)

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane	50-29-3	1993-02-16

	CAS-No.	Revision Date
1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane	50-29-3	1993-02-16

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane	50-29-3	1993-02-16

	CAS-No.	Revision Date
1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane	50-29-3	1993-02-16

	CAS-No.	Revision Date
1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane	50-29-3	1993-02-16

New Jersey Right To Know Components

	CAS-No.	Revision Date
1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane	50-29-3	1993-02-16

	CAS-No.	Revision Date
1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane	50-29-3	1993-02-16

California Prop. 65 Components

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause cancer. 1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane	50-29-3	2008-06-17
WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. 1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane	50-29-3	2008-06-17
WARNING! This product contains a chemical known to the State of California to cause cancer. 1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane	50-29-3	2008-06-17
WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. 1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane	50-29-3	2008-06-17

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
H301	Toxic if swallowed.
H301 + H311	Toxic if swallowed or in contact with skin.
H311	Toxic in contact with skin.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure if swallowed.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	2
Reactivity Hazard:	0

Further information

Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.6 Revision Date: 05/07/2018 Print Date: 06/22/2019

SAFETY DATA SHEET

Version 3.4
Revision Date 06/26/2014
Print Date 11/09/2018

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : 1,3,5-Trimethoxybenzene

Product Number : 138827
Brand : Aldrich

CAS-No. : 621-23-8

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 4), H302

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Warning

Hazard statement(s)
H302 Harmful if swallowed.

Precautionary statement(s)
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
P330 Rinse mouth.
P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms : Phloroglucinol trimethyl ether

Formula	:	$C_9H_{12}O_3$
Molecular Weight	:	168.19 g/mol
CAS-No.	:	621-23-8
EC-No.	:	210-673-4

Hazardous components

Component	Classification	Concentration
O,O,O-1,3,5-Trimethylresorcinol		
	Acute Tox. 4; H302	-

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
no data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides

5.3 Advice for firefighters
Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information
no data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.Normal measures for preventive fire protection.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator.For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: crystalline Colour: colourless
b)	Odour	no data available
c)	Odour Threshold	no data available
d)	pH	no data available
e)	Melting point/freezing point	Melting point/range: 50 - 53 °C (122 - 127 °F) - lit.
f)	Initial boiling point and boiling range	255 °C (491 °F) - lit.

g)	Flash point	86.00 °C (186.80 °F) - closed cup
h)	Evapouration rate	no data available
i)	Flammability (solid, gas)	no data available
j)	Upper/lower flammability or explosive limits	no data available
k)	Vapour pressure	no data available
l)	Vapour density	no data available
m)	Relative density	no data available
n)	Water solubility	no data available
o)	Partition coefficient: n-octanol/water	log Pow: 1.965
p)	Auto-ignition temperature	no data available
q)	Decomposition temperature	no data available
r)	Viscosity	no data available
s)	Explosive properties	no data available
t)	Oxidizing properties	no data available

9.2 Other safety information
no data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
no data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
no data available

10.4 Conditions to avoid
no data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - no data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
Inhalation: no data available

Dermal: no data available

no data available

Skin corrosion/irritation
no data available

Serious eye damage/eye irritation
no data available

Respiratory or skin sensitisation
no data available

Germ cell mutagenicity
no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
no data available

no data available

Specific target organ toxicity - single exposure
no data available

Specific target organ toxicity - repeated exposure
no data available

Aspiration hazard
no data available

Additional Information
RTECS: DC2810000

12. ECOLOGICAL INFORMATION

12.1 Toxicity
no data available

12.2 Persistence and degradability
no data available

12.3 Bioaccumulative potential
no data available

12.4 Mobility in soil
no data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

no data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

15. REGULATORY INFORMATION

SARA 302 Components
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
O,O,O-1,3,5-Trimethylresorcinol	621-23-8	

New Jersey Right To Know Components

	CAS-No.	Revision Date
O,O,O-1,3,5-Trimethylresorcinol	621-23-8	

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
H302	Harmful if swallowed.

HMIS Rating

Health hazard:	1
Chronic Health Hazard:	
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	1
Fire Hazard:	0
Reactivity Hazard:	0

Further information
Copyright 2014 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling

or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information
Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 3.4 Revision Date: 06/26/2014 Print Date: 11/09/2018

SAFETY DATA SHEET

Version 3.21
Revision Date 08/21/2018
Print Date 10/19/2018

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Acetone

Product Number : 650501
Brand : Sigma-Aldrich
Index-No. : 606-001-00-8

CAS-No. : 67-64-1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable liquids (Category 2), H225
Eye irritation (Category 2A), H319
Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Precautionary statement(s)
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/ eye protection/ face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	C_3H_6O
Molecular weight	:	58.08 g/mol
CAS-No.	:	67-64-1
EC-No.	:	200-662-2
Index-No.	:	606-001-00-8
Registration number	:	01-2119471330-49-XXXX

Hazardous components

Component	Classification	Concentration
Acetone		
	Flam. Liq. 2; Eye Irrit. 2A; STOT SE 3; H225, H319, H336	90 - 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Dry powder Dry sand

Unsuitable extinguishing media
Do NOT use water jet.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Use explosion-proof equipment.Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Storage class (TRGS 510): 3: Flammable liquids

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Acetone	67-64-1	TWA	250 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Substances for which there is a Biological Exposure Index or Indices (see BEI® section)		

		Not classifiable as a human carcinogen		
		STEL	500 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen		
		TWA	250 ppm 590 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	1,000 ppm 2,400 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		The value in mg/m3 is approximate.		
		STEL	750 ppm 1,780 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		C	3,000 ppm	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		PEL	500 ppm 1,200 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
	-	Acetone	25 mg/l	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift (As soon as possible after exposure ceases)			

Predicted No Effect Concentration (PNEC)

Compartment	Value
Soil	33.3 mg/kg
Marine water	1.06 mg/l
Fresh water	10.6 mg/l
Marine sediment	3.04 mg/kg
Fresh water sediment	30.4 mg/kg
Onsite sewage treatment plant	100 mg/l

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: butyl-rubber
Minimum layer thickness: 0.3 mm
Break through time: 480 min
Material tested:Butoject® (KCL 897 / Aldrich Z677647, Size M)

Splash contact
Material: butyl-rubber
Minimum layer thickness: 0.3 mm
Break through time: 480 min
Material tested:Butoject® (KCL 897 / Aldrich Z677647, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Impervious clothing, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid, clear Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: -94 °C (-137 °F)
f)	Initial boiling point and boiling range	56 °C (133 °F) at 1,013 hPa (760 mmHg)
g)	Flash point	-17.0 °C (1.4 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 13 %(V) Lower explosion limit: 2 %(V)
k)	Vapour pressure	533.3 hPa (400.0 mmHg) at 39.5 °C (103.1 °F) 245.3 hPa (184.0 mmHg) at 20.0 °C (68.0 °F)
l)	Vapour density	No data available
m)	Relative density	0.791 g/mL at 25 °C (77 °F)
n)	Water solubility	completely miscible
o)	Partition coefficient: n-octanol/water	log Pow: -0.24
p)	Auto-ignition temperature	465.0 °C (869.0 °F)
q)	Decomposition temperature	No data available

r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

Surface tension	23.2 mN/m at 20.0 °C (68.0 °F)

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Vapours may form explosive mixture with air.

10.4 Conditions to avoid
Heat, flames and sparks.

10.5 Incompatible materials
Bases, Oxidizing agents, Reducing agents, Acetone reacts violently with phosphorous oxychloride.

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 5,800 mg/kg
Remarks: Behavioral:Altered sleep time (including change in righting reflex). Behavioral:Tremor. Behavioral:Headache. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

LC50 Inhalation - Rat - 8 h - 50,100 mg/m3
Remarks: Drowsiness Dizziness Unconsciousness

LD50 Dermal - Guinea pig - 7,426 mg/kg

No data available

Skin corrosion/irritation
Skin - Rabbit
Result: Mild skin irritation - 24 h

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Eye irritation - 24 h

Respiratory or skin sensitisation
- Guinea pig
Result: Does not cause skin sensitisation.

Germ cell mutagenicity
No data available

Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: AL3150000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Kidney - Irregularities - Based on Human Evidence
Skin - Dermatitis - Based on Human Evidence
Kidney - Irregularities - Based on Human Evidence
Skin - Dermatitis - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Oncorhynchus mykiss (rainbow trout) - 5,540 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	LC50 - Daphnia magna (Water flea) - 8,800 mg/l - 48 h
Toxicity to algae	Remarks: No data available

12.2 Persistence and degradability

Biodegradability	Result: 91 % - Readily biodegradable. (OECD Test Guideline 301B)

12.3 Bioaccumulative potential
Does not bioaccumulate.

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1090 Class: 3 Packing group: II
Proper shipping name: Acetone
Reportable Quantity (RQ): 5000 lbs
Poison Inhalation Hazard: No

IMDG
UN number: 1090 Class: 3 Packing group: II EMS-No: F-E, S-D
Proper shipping name: ACETONE

IATA
UN number: 1090 Class: 3 Packing group: II
Proper shipping name: Acetone

15. REGULATORY INFORMATION

SARA 302 Components
This material does not contain any components with a section 302 EHS TPQ.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Acetone	67-64-1	1993-02-16

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Acetone	67-64-1	1993-02-16

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquids
H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
STOT SE	Specific target organ toxicity - single exposure

Further information
Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information
Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 3.21 Revision Date: 08/21/2018 Print Date: 10/19/2018

SAFETY DATA SHEET

Version 6.0
Revision Date 06/17/2019
Print Date 07/17/2019

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : AROCLOR 1260

Product Number : CRM48736
Brand : Supelco

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 Spruce Street
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Carcinogenicity (Category 1B), H350

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)
H350 May cause cancer.

Precautionary statement(s)
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Component		Classification	Concentration
Distillates (petroleum), hydrotreated middle			
CAS-No. EC-No. Index-No.	64742-46-7 265-148-2 649-221-00-X	Carc. 1B; H350	>= 90 - <= 100 %
Baseoil - unspecified			
CAS-No. EC-No. Index-No.	64742-53-6 265-156-6 649-466-00-2	Carc. 1B; H350	>= 30 - < 50 %
2,6-di-tert-Butyl-p-cresol			
CAS-No. EC-No. Registration number	128-37-0 204-881-4 01-2119565113-46-XXXX	Aquatic Chronic 1; H410 M-Factor - Aquatic Acute: 1 M-Factor - Aquatic Chronic: 1	>= 0.1 - < 1 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Nature of decomposition products not known.

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Avoid inhalation of vapour or mist.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Store at room temperature.
Storage class (TRGS 510): 6.1C: Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Distillates (petroleum), hydrotreated middle	64742-46-7	TWA	500.000000 ppm 2,000.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
	Remarks	The value in mg/m3 is approximate.		
		TWA	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	5.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	10.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	5 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	5 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWA	5 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	10 mg/m3	USA. NIOSH Recommended Exposure Limits
		PEL	5 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		As sampled by method that does not collect vapor.		
Baseoil - unspecified	64742-53-6	TWA	5 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	5 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Not classifiable as a human carcinogen		

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

		TWA	5 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	10 mg/m3	USA. NIOSH Recommended Exposure Limits
		PEL	5 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		As sampled by method that does not collect vapor.		
2,6-di-tert-Butyl-p-cresol	128-37-0	TWA	2 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Not classifiable as a human carcinogen		
		TWA	10 mg/m3	USA. NIOSH Recommended Exposure Limits
		PEL	10 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	No data available
g)	Flash point	()No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known.
Other decomposition products - No data available
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
No data available

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: Not available

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product.

SECTION 14: Transport information

DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

SECTION 15: Regulatory information

SARA 302 Components

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Chronic Health Hazard

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Distillates (petroleum), hydrotreated middle	64742-46-7	1989-08-11
Baseoil - unspecified	64742-53-6	2016-09-09

SECTION 16: Other information

Further information
Copyright 2018 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact mlsbranding@sial.com.

Version: 6.0 Revision Date: 06/17/2019 Print Date: 07/17/2019

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

SAFETY DATA SHEET

Version 4.13
Revision Date 09/12/2018
Print Date 06/28/2019

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Arsenic

Product Number : 202657
Brand : Aldrich
Index-No. : 033-001-00-X

CAS-No. : 7440-38-2

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 4), H302
Acute toxicity, Inhalation (Category 3), H331
Carcinogenicity (Category 1B), H350
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)
H302 Harmful if swallowed.
H331 Toxic if inhaled.
H350 May cause cancer.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P304 + P340 + P311	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	As
Molecular weight	:	74.92 g/mol
CAS-No.	:	7440-38-2
EC-No.	:	231-148-6
Index-No.	:	033-001-00-X

Hazardous components

Component	Classification	Concentration
Arsenic		
	Acute Tox. 4; Acute Tox. 3; Carc. 1B; Aquatic Acute 1; Aquatic Chronic 1; H302, H331, H350, H410	90 - 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place.
Storage class (TRGS 510): 6.1B: Non-combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Arsenic	7440-38-2	TWA	0.01 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Lung cancer Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Confirmed human carcinogen		

		C	0.0020 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A 15 minute ceiling value		

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
	-	inorganic arsenic plus methylated metabolites	35µg As/l	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of the workweek (After four or five consecutive working days with exposure)			

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder Colour: light grey, black
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 817 °C (1,503 °F) - lit.
f)	Initial boiling point and boiling range	613 °C (1,135 °F) - lit.
g)	Flash point	Not applicable
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	5.727 g/mL at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
Heat Exposure to air may affect product quality.

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Arsenic oxides
Other decomposition products - No data available

In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - 763 mg/kg
Remarks: Behavioral:Ataxia. Diarrhoea

LD50 Oral - Mouse - 145 mg/kg
Remarks: Behavioral:Ataxia. Diarrhoea

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity

Carcinogenicity

No data available

IARC:	1 - Group 1: Carcinogenic to humans (Arsenic)
NTP:	Known - Known to be human carcinogen (Arsenic)
OSHA:	OSHA specifically regulated carcinogen (Arsenic)

Reproductive toxicity

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: CG0525000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence
Stomach - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - 9.9 mg/l - 96.0 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 3.8 mg/l - 48 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1558 Class: 6.1 Packing group: II
Proper shipping name: Arsenic
Reportable Quantity (RQ): 1 lbsReportable Quantity (RQ): 1 lbs
Poison Inhalation Hazard: No

IMDG
UN number: 1558 Class: 6.1 Packing group: II EMS-No: F-A, S-A
Proper shipping name: ARSENIC
Marine pollutant:yes

IATA
UN number: 1558 Class: 6.1 Packing group: II
Proper shipping name: Arsenic

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Arsenic	7440-38-2	2015-11-23

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Reportable Quantity D004 lbs

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Arsenic	7440-38-2	2015-11-23

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Arsenic	7440-38-2	2015-11-23

	CAS-No.	Revision Date
Arsenic	7440-38-2	2015-11-23

New Jersey Right To Know Components

	CAS-No.	Revision Date
Arsenic	7440-38-2	2015-11-23

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer.	CAS-No.	Revision Date
Arsenic	7440-38-2	2007-09-28

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
H302	Harmful if swallowed.
H331	Toxic if inhaled.
H350	May cause cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Further information

Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.13 Revision Date: 09/12/2018 Print Date: 06/28/2019

SAFETY DATA SHEET

Version 6.1
Revision Date 05/28/2017
Print Date 06/28/2019

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Barium

Product Number : 474711
Brand : Aldrich

CAS-No. : 7440-39-3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 Spruce Street
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Substances and mixtures, which in contact with water, emit flammable gases (Category 2), H261

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)
H261 In contact with water releases flammable gases.

Precautionary statement(s)
P223 Do not allow contact with water.
P231 + P232 Handle under inert gas. Protect from moisture.
P280 Wear protective gloves/ eye protection/ face protection.
P335 + P334 Brush off loose particles from skin. Immerse in cool water/ wrap in wet bandages.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P402 + P404	Store in a dry place. Store in a closed container.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	Ba
Molecular weight	:	137.33 g/mol
CAS-No.	:	7440-39-3
EC-No.	:	231-149-1

Hazardous components

Component	Classification	Concentration
Barium		
	Water-react. 2; H261	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Dry powder

5.2 Special hazards arising from the substance or mixture
Barium oxide

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Do not flush with water. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Further processing of solid materials may result in the formation of combu formation should be taken into consideration before additional processing
Provide appropriate exhaust ventilation at places where dust is formed.Keep away from sources of ignition - No smoking.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Never allow product to get in contact with water during storage.

Store under inert gas.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters
Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Barium	7440-39-3	TWA	0.500000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Eye, skin, & Gastrointestinal irritation Muscular stimulation Not classifiable as a human carcinogen		
		TWA	0.500000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	0.500000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Eye irritation Muscular stimulation Skin irritation Gastrointestinal irritation Not classifiable as a human carcinogen		
		TWA	0.500000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	0.5 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	0.5 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Eye irritation Muscular stimulation Skin irritation Gastrointestinal irritation Not classifiable as a human carcinogen		

		TWA	0.5 mg/m3	USA. NIOSH Recommended Exposure Limits

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industria situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Flame retardant protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use (EN 143) respirator cartridges as a backup to engineering controls. If th full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: Pieces Colour: grey
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 725 °C (1337 °F) - lit.
f)	Initial boiling point and boiling range	1,640 °C (2,984 °F) - lit.
g)	Flash point	()Not applicable
h)	Evaporation rate	No data available

i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	3.6 g/cm3 at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Reacts violently with water.

10.4 Conditions to avoid
Exposure to moisture

10.5 Incompatible materials
Oxidizing agents, Water, acids, Oxygen, Chlorinated solvents, Carbon dioxide (CO2), Halogens, Halogenated hydrocarbon, Alcohols, Sulphur compounds, Hydrogen sulfide gas

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Barium oxide
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data availableBarium
Inhalation: No data available(Barium)
Dermal: No data available(Barium)
No data available(Barium)

Skin corrosion/irritation
No data available(Barium)

Serious eye damage/eye irritation
No data available(Barium)

Respiratory or skin sensitisation
No data available(Barium)

Germ cell mutagenicity

No data available(Barium)

Carcinogenicity
This product is or contains a component that is not classifiable as to its classification.(Barium)
(Barium)
(Barium)

Reproductive toxicity
No data available(Barium)

No data available(Barium)

Specific target organ toxicity - single exposure
No data available(Barium)

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available(Barium)

Additional Information
RTECS: CQ8370000

Stomach/intestinal disorders, Nausea, Vomiting, Drowsiness, Dizziness, Gastrointestinal disturbance, Weakness, Tremors, Seizures.(Barium)
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.(Barium)

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	mortality NOEC - Cyprinodon variegatus (sheepshead minnow) - 500 mg/l - 96 h(Barium)
	LC50 - Cyprinodon variegatus (sheepshead minnow) - > 500 mg/l - 96 h(Barium)

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available(Barium)

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1400 Class: 4.3 Packing group: II
Proper shipping name: Barium
Reportable Quantity (RQ) : 1000 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 1400 Class: 4.3 Packing group: II EMS-No: F-G, S-O
Proper shipping name: BARIUM

IATA
UN number: 1400 Class: 4.3 Packing group: II
Proper shipping name: Barium

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Barium	7440-39-3	2007-07-01

SARA 311/312 Hazards
Reactivity Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Barium	7440-39-3	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Barium	7440-39-3	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Barium	7440-39-3	2007-07-01

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H261 In contact with water releases flammable gases.

HMIS Rating

Health hazard:	0
Chronic Health Hazard:	
Flammability:	3
Physical Hazard	1

NFPA Rating

Health hazard:	0
Fire Hazard:	3
Reactivity Hazard:	1
Special hazard.I:	W

Further information

Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956
Version: 6.1 Revision Date: 05/28/2017 Print Date: 06/28/2019

POCH Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH). Creation date / last update: *2002-10-15 / 2005-04-22*

1. Identification of the substance/preparation and of the company/undertaking

BENZENE

Catalogue Numbers: *99,9% standard for GC-162500320; pure-162500426; pure p. a.-162500110; for HPLC-162503155; Pochsolv-162505156;*

Use of the substance / preparation: analitical and chemical reagent for synthesis solvent

POCH SA
44-101 Gliwice, Sowinskiego Str. 11
tel.: +48 32 23-92-381; fax: +48 32 23-92-370; e-mail: export@poch.com.pl
Emergency telephone no: +48 606-659-006

2. Hazard identification

Highly flammable. May cause cancer. Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.

3. Composition/information on ingredients

CAS-No.: *71-43-2*

Molecular mass: *78.11*

Molecular formula: C_6H_6

WE Number: *200-753-7*

EC-Index No.: *601-020-00-8*

4. First aid measures

After eye contact: *rinse out with plenty of water with the eyelid held wide open. Call in ophtalmologist.*

After skin contact: *wash off with plenty of water. Remove contaminated clothing.*

After swallowing: *make victim drink plenty of water. Avoid vomiting (risk of aspiration). Laxative: paraffin oil (3 mg/kg), sodium sulfate (1 tablespoon 1/4 l water). Lavage of stomach only if necessary. Call in physician.*

After inhalation: *fresh air. If necessary, apply mouth- to- mouth resuscitation or mechanical ventilation.*

5. Fire-fighting measures

Suitable extinguishing media: *foam, powder*

Special risk: *combustible. Vapours heavier than air. Formation of explosive mixtures possible with air. Keep away from sources of fire. Take measures to prevent electrostatic charging. Development of hazardous gases or vapours possible in the event of fire.*

Special protective equipment for fire fighting:

Other information: *contain escaping vapoures with spray water. Do not stay in dangerous zone without self- contained breathing apparatus. Prevent fire- fighting water from entering surface water or groundwater*

Prevent fire-fighting water from entering surface water or groundwater. Cool container with spray water from a safe distance. Contain escaping vapours with water.

6. Accidental release measures

Do not inhale vapours/aerosols. Avoid substance contact. Ensure supply of fresh air in enclosed rooms. Take up with liquid- absorbent material. Forward for disposal. Clean up affected area. Do not allow to enter sewerage system (risk of explosion).

7. Handling and storage

Handling: *Use with adequate ventilation. Use of the basic principles of Industrial Hygiene. Use according to good industry practice. Work under hood. Do not inhale substance. Do not empty into sewerage system. Use protective equipment according to p.8. Avoid skin contact. Protect against electrostatic charges. Keep away from source od ignition.*

Storage: *tightly closed. Dry well-ventilated place. Protect from light. Keep away from sources of ignition and heat. At +15 to + 25 deg C.*

8. Exposure controls/personal protection

Specific control parameter:

Provide exhaust ventilation. Ensure the eye wash station and safety showers. Protective equipment should be selected for the working place, depending on concentration and quantity of the hazardous product handled. The resistance of the protective clothing to chemicals should be ascertained with respective supplier.

POCH

Personal protective equipment:

respiratory protection: *required when vapours/aerosols are generated - gas mask with specific absorber.*

eye protection: *required - safety goggles.*

hand protection: *required - protective clothing.*

body protection: *required - protective clothing.*

industrial hygiene: *immediately change contaminated clothing. Apply skin - protective barrier cream. Wash hands and face after working with substance.*

9. Physical and chemical properties

Form: *liquid*

Colour: *colourless*

Odour: *characteristic*

pH value: *not available*

Melting point: *5°C*

Boiling point: *80°C*

Autoignition temperature: *555°C*

Flash point: *-11°C*

Explosion limit:

lower: *1,4 Vol%*

upper: *8 Vol%*

dynamic viscosity: *(20°C): 0,66 mPa*s*

kinematical viscosity: *0,75 mm2/s*

Vapour pressure: *100 mbar (20°C)*

Density: *0,88 g/cm³ (20°C)*

Bulk density: *not applicable*

Solublity:

in water: *1,8 g/l (20°C)*

in organic solvents: *soluble*

log P(w/o): *2,65. Bioconcentration factor: 1,10.*

10. Stability and reactivity

Conditions to be avioded: *high temperature*

Substances to be avoided: *nonorganic acids, sulfur, halogen-halogen compounds, oxidizing agents, peroxide compounds, oxyhalogenic compounds, halogenic hydrocarbons, rubber.*

Hazardous decomposition products: *no information available*

Other information: *volatile in steam. Unsuitable workings materials: various plastics*

11. Toxicological information

Toxicological information: *LD50 (oral rat) 930 mg/kg, LC50 (inhalation rat) 10 000 ppm (vol.) /7h. Experience has shown this substance to be carcinogenic to man.*

Other information: *After skin contact: irritations, danger of absorption, Degreasing effect on the skin possibly followed by secondary inflammation; After swallowing: nausea and vomiting; After absorption: pain and dizziness, cardiac arrhythmia, drop in blood pressure, dyspnoea, spasms, narcosis, respiratory paralysis, death; After eye contact: irritations of mucous membranes. Carcinogenic class 1. This substance should be handled with particular care.*

12. Ecological information

Log P(w/o): 2,65. No appreciable bioaccumulation potential is to be expected. Toxicity: Fish: Onchorhynchus mykiss LC50: 5,3 mg/l/96h. C. auratus LC50: 34 mg/l/96h. Daphnia: Daphnia magma EC50: 200 mg/l/48h. Algea: Chlorella vulgaris: LC50: 530 mg/l/24h. Bacteria: Ps. putida EC10: 168 mg/l. Toxic effect on aquatic organisms. Biologic degradation: ThOD 3,1 g/g, B.O.D 10% ThOD, C.O.D. 19% ThOD. Hazard for drinking water supplies. Do not allow to enter waters, waste water or soil!

13. Disposal considerations

POCH product packaging must be disposed of in compliance with the country-specific regulations or must be passed to a packaging return system. Handle contaminated packing in the same way as the substrate itself. Always contact a permitted waste disposal to assure compliance with all current local, state and federal regulations.

14. Transport information

ADR Class and package group: *3,II*

UN Number: *1114*

Name (acc. to UN): *benzene*

15. Regulatory information

Labelling according to EC Directives.

Symbol: *F, T; Flammable. Toxic.*

R-phrases: *45-11-48/23/24/25; Highly flammable. May cause cancer. Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.*

S-phrases: *53-45; In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Avoid exposure - obtain special instructions before use. Restricted to professional users.*

EC label.

16. Other information

Reason for alteration: general update.

Informations contained in this SDS while accurate to the best knowledge

POCH

SAFETY DATA SHEET

Version 5.8
Revision Date 02/02/2018
Print Date 10/19/2018

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Benzo[*a*]pyrene

Product Number : 48564
Brand : Supelco
Index-No. : 601-032-00-3

CAS-No. : 50-32-8

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Skin sensitisation (Category 1), H317
Germ cell mutagenicity (Category 1B), H340
Carcinogenicity (Category 1B), H350
Reproductive toxicity (Category 1B), H360
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)
H317 May cause an allergic skin reaction.
H340 May cause genetic defects.
H350 May cause cancer.
H360 May damage fertility or the unborn child.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and

understood.

P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms : 3,4-Benzpyrene
3,4-Benzopyrene
Benzo[def]chrysene
benzo[pqr]tetraphene

Formula : $C_{20}H_{12}$
Molecular weight : 252.31 g/mol
CAS-No. : 50-32-8
EC-No. : 200-028-5
Index-No. : 601-032-00-3

Hazardous components

Component	Classification	Concentration
Benzo[a]pyrene		
	Skin Sens. 1; Muta. 1B; Carc. 1B; Repr. 1B; Aquatic Acute 1; Aquatic Chronic 1; H317, H340, H350, H360, H410	90 - 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

Store at room temperature.
Storage class (TRGS 510): 6.1D: Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
	Remarks	Cancer Substances for which there is a Biological Exposure Index or Indices (see BEI® section), see BEI® for Polycyclic Aromatic Hydrocarbons (PAHs) Exposure by all routes should be carefully controlled to levels as low		

		as possible. Suspected human carcinogen		
		Cancer Substances for which there is a Biological Exposure Index or Indices (see BEI® section), see BEI® for Polycyclic Aromatic Hydrocarbons (PAHs) Exposure by all routes should be carefully controlled to levels as low as possible. Suspected human carcinogen		
Benzo[a]pyrene	50-32-8	TWA	0.200000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	0.200000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		1910.1002 As used in §1910.1000 (Table Z-1), coal tar pitch volatiles include the fused polycyclic hydrocarbons which volatilize from the distillation residues of coal, petroleum (excluding asphalt), wood, and other organic matter. Asphalt (CAS 8052-42-4, and CAS 64742-93-4) is not covered under the 'coal tar pitch volatiles' standard OSHA specifically regulated carcinogen		
		TWA	0.100000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen NIOSH considers coal tar, coal tar pitch, and creosote to be coal tar products. cyclohexane-extractable fraction See Appendix C See Appendix A		
		TWA	0.2 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		1910.1002 As used in §1910.1000 (Table Z-1), coal tar pitch volatiles include the fused polycyclic hydrocarbons which volatilize from the distillation residues of coal, petroleum (excluding asphalt), wood, and other organic matter. Asphalt (CAS 8052-42-4, and CAS 64742-93-4) is not covered under the 'coal tar pitch volatiles' standard OSHA specifically regulated carcinogen		
		TWA	0.1 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen NIOSH considers coal tar, coal tar pitch, and creosote to be coal tar products. cyclohexane-extractable fraction See Appendix C See Appendix A		
		TWA	0.2 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		PEL	0.2 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		PEL	0.2 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological	Basis

				specimen	
	-	1-Hydroxypyrene		Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift at end of workweek			
		1-Hydroxypyrene		Urine	ACGIH - Biological Exposure Indices (BEI)
		End of shift at end of workweek			

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance — Form: solid

b) Odour — No data available

c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 177 - 180 °C (351 - 356 °F)
f)	Initial boiling point and boiling range	495 °C (923 °F)
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	1.35 g/cm3
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	log Pow: 5.97
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

Inhalation: No data available

Dermal: No data available

LD50 Subcutaneous - Rat - 50 mg/kg

Skin corrosion/irritation
Skin - Mouse
Result: Mild skin irritation

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
Chronic exposure may cause dermatitis.

Germ cell mutagenicity
May alter genetic material.
In vivo tests showed mutagenic effects

Carcinogenicity

This product is or contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.

Possible human carcinogen

IARC:	1 - Group 1: Carcinogenic to humans (Benzo[a]pyrene)
NTP:	RAHC - Reasonably anticipated to be a human carcinogen (Benzo[a]pyrene)
OSHA:	OSHA specifically regulated carcinogen (Benzo[a]pyrene)

Reproductive toxicity
May cause congenital malformation in the fetus.
Presumed human reproductive toxicant

May cause reproductive disorders.

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: Not available

burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 0.25 mg/l - 48 h
Toxicity to algae	EC50 - Pseudokirchneriella subcapitata (green algae) - 0.02 mg/l - 72 h

12.2 Persistence and degradability

12.3 Bioaccumulative potential

Bioaccumulation	Lepomis macrochirus (Bluegill) - 48 h - 0.0005 mg/l
	Bioconcentration factor (BCF): 3,208

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Benzo[a]pyrene)
Reportable Quantity (RQ): 1 lbs
Poison Inhalation Hazard: No

IMDG

UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Benzo[a]pyrene)
Marine pollutant:yes

IATA

UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Benzo[a]pyrene)

Further information

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

15. REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Benzo[a]pyrene	50-32-8	2007-03-01

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Benzo[a]pyrene	50-32-8	2007-03-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Benzo[a]pyrene	50-32-8	2007-03-01

	CAS-No.	Revision Date
Benzo[a]pyrene	50-32-8	2007-03-01

New Jersey Right To Know Components

	CAS-No.	Revision Date

Benzo[a]pyrene	50-32-8	2007-03-01

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer.	CAS-No.	Revision Date
Benzo[a]pyrene	50-32-8	1990-01-01

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
H317	May cause an allergic skin reaction.
H340	May cause genetic defects.
H350	May cause cancer.
H360	May damage fertility or the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
Muta.	Germ cell mutagenicity

HMIS Rating

Health hazard:	3
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	3
Fire Hazard:	0
Reactivity Hazard:	0

Further information

Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.8 Revision Date: 02/02/2018 Print Date: 10/19/2018

SAFETY DATA SHEET

Version 6.1
Revision Date 07/17/2018
Print Date 01/21/2019

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Benzo[<I>b</>]fluoranthene
Product Number	:	48490
Brand	:	Supelco
Index-No.	:	601-034-00-4
CAS-No.	:	205-99-2

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich Inc. 3050 Spruce Street ST. LOUIS MO 63103 UNITED STATES
Telephone	:	+1 314 771-5765
Fax	:	+1 800 325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Carcinogenicity (Category 1B), H350

Acute aquatic toxicity (Category 1), H400

Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)

H350	May cause cancer.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P273	Avoid release to the environment.
P281	Use personal protective equipment as required.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	3,4-Benzofluoranthene
Formula	:	C<SB>20</>H<SB>12</>
Molecular weight	:	252.31 g/mol
CAS-No.	:	205-99-2
EC-No.	:	205-911-9
Index-No.	:	601-034-00-4

Hazardous components

Component	Classification	Concentration
Benz[e]acephenanthrylene		
	Carc. 1B; Aquatic Acute 1; Aquatic Chronic 1; H350, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature 2 - 8 °C
Storage class (TRGS 510): 6.1D: Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

	Remarks	Cancer Substances for which there is a Biological Exposure Index or Indices (see BEI® section), see BEI® for Polycyclic Aromatic Hydrocarbons (PAHs) Exposure by all routes should be carefully controlled to levels as low as possible. Suspected human carcinogen

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Benz[e]acephenanthrylene	205-99-2	1-Hydroxypyrene		Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift at end of workweek			

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 163 - 165 °C (325 - 329 °F) - lit.
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available

j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
TDLo Oral - Mouse - 7.57 mg/kg
Remarks: Liver:Changes in liver weight. Endocrine:Changes in thymus weight.
Inhalation: No data available
Dermal: No data available
No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity
This product is or contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.
Possible human carcinogen

IARC:	2B - Group 2B: Possibly carcinogenic to humans (Benz[e]acephenanthrylene)
NTP:	RAHC - Reasonably anticipated to be a human carcinogen (Benz[e]acephenanthrylene)
OSHA:	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to daphnia and other aquatic invertebrates	Immobilization EC50 - Daphnia magna (Water flea) - > 1.024 mg/l - 24 h(Benz[e]acephenanthrylene)

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available(Benz[e]acephenanthrylene)

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods

IMDG
UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Benz[e]acephenanthrylene)
Marine pollutant : yes

IATA
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Benz[e]acephenanthrylene)

Further information
EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Benz[e]acephenanthrylene	205-99-2	2007-03-01

SARA 311/312 Hazards
Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Benz[e]acephenanthrylene	205-99-2	2007-03-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Benz[e]acephenanthrylene	205-99-2	2007-03-01

California Prop. 65 Components

, which is/are known to the State of California to cause cancer.	CAS-No.	Revision Date
For more information go to www.P65Warnings.ca.gov.	205-99-2	2007-09-28
Benz[e]acephenanthrylene		

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H350 May cause cancer.

H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Further information

Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956
Version: 6.1 Revision Date: 07/17/2018 Print Date: 01/21/2019

SAFETY DATA SHEET

Version 6.1
Revision Date 07/16/2018
Print Date 01/21/2019

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Benzo[<I>k</>]fluoranthene
Product Number	:	48492
Brand	:	Supelco
Index-No.	:	601-036-00-5
CAS-No.	:	207-08-9

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich Inc. 3050 Spruce Street ST. LOUIS MO 63103 UNITED STATES
Telephone	:	+1 314 771-5765
Fax	:	+1 800 325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Carcinogenicity (Category 1B), H350

Acute aquatic toxicity (Category 1), H400

Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)

H350	May cause cancer.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P273	Avoid release to the environment.
P281	Use personal protective equipment as required.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	C<SB>20</>H<SB>12</>
Molecular weight	:	252.31 g/mol
CAS-No.	:	207-08-9
EC-No.	:	205-916-6
Index-No.	:	601-036-00-5

Hazardous components

Component	Classification	Concentration
Benzo[k]fluoranthene		
	Carc. 1B; Aquatic Acute 1; Aquatic Chronic 1; H350, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature 2 - 8 °C
Storage class (TRGS 510): 6.1D: Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters
Components with workplace control parameters
Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Benzo[k]fluoranthene	207-08-9	1-Hydroxypyrene		Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift at end of workweek			

8.2 Exposure controls
Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment
Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: crystalline Colour: yellow
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 215 - 217 °C (419 - 423 °F) - lit.
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available

m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available
Inhalation: No data available
Dermal: No data available
No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity
Carcinogenicity- Rat- Implant

This product is or contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.
Possible human carcinogen

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Benzo[k]fluoranthene)

NTP: RAHC - Reasonably anticipated to be a human carcinogen (Benzo[k]fluoranthene)

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: DF6350000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available(Benzo[k]fluoranthene)

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Benzo[k]fluoranthene)

Reportable Quantity (RQ) : 5000 lbs

no
Poison Inhalation Hazard: No

IMDG
UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Benzo[k]fluoranthene)
Marine pollutant : yes

IATA
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Benzo[k]fluoranthene)

Further information
EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Benzo[k]fluoranthene	207-08-9	1994-04-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Benzo[k]fluoranthene	207-08-9	1994-04-01

California Prop. 65 Components

, which is/are known to the State of California to cause cancer.	CAS-No.	Revision Date
For more information go to www.P65Warnings.ca.gov.	207-08-9	2007-09-28
Benzo[k]fluoranthene		

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H350	May cause cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Further information
Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956
Version: 6.1 Revision Date: 07/16/2018 Print Date: 01/21/2019

SAFETY DATA SHEET

Version 6.1
Revision Date 07/17/2018
Print Date 01/21/2019

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Benz[*a*]anthracene
Product Number	:	48563
Brand	:	Supelco
Index-No.	:	601-033-00-9
CAS-No.	:	56-55-3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich Inc. 3050 Spruce Street ST. LOUIS MO 63103 UNITED STATES
Telephone	:	+1 314 771-5765
Fax	:	+1 800 325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Carcinogenicity (Category 1B), H350

Acute aquatic toxicity (Category 1), H400

Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)
H350 May cause cancer.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P273	Avoid release to the environment.
P281	Use personal protective equipment as required.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	1,2-Benzanthracene Tetraphene
Formula	:	C<SB>18</>H<SB>12</>
Molecular weight	:	228.29 g/mol
CAS-No.	:	56-55-3
EC-No.	:	200-280-6
Index-No.	:	601-033-00-9

Hazardous components

Component	Classification	Concentration
Benz[a]anthracene		
	Carc. 1B; Aquatic Acute 1; Aquatic Chronic 1; H350, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

Store at room temperature.
Storage class (TRGS 510): 6.1D: Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters
Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls
Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 157 - 159 °C (315 - 318 °F)
f)	Initial boiling point and boiling range	437.6 °C (819.7 °F)
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available

n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available
Inhalation: No data available
Dermal: No data available
LD50 Intravenous - Rat - > 200 mg/kg

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity
This product is or contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.
Possible human carcinogen

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Benz[a]anthracene)

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Benz[a]anthracene)

NTP: RAHC - Reasonably anticipated to be a human carcinogen (Benz[a]anthracene)

NTP: RAHC - Reasonably anticipated to be a human carcinogen (Benz[a]anthracene)

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available(Benz[a]anthracene)

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
IMDG
UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Benz[a]anthracene)
Marine pollutant : yes

IATA
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Benz[a]anthracene)

Further information
EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Benz[a]anthracene	56-55-3	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Benz[a]anthracene	56-55-3	1993-04-24

	CAS-No.	Revision Date
Benz[a]anthracene	56-55-3	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
Benz[a]anthracene	56-55-3	1993-04-24

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer. Benz[a]anthracene	CAS-No. 56-55-3	Revision Date 2007-09-28
WARNING! This product contains a chemical known to the State of California to cause cancer. Benz[a]anthracene	CAS-No. 56-55-3	Revision Date 2007-09-28

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H350	May cause cancer.
H400	Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Further information

Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956
Version: 6.1 Revision Date: 07/17/2018 Print Date: 01/21/2019

SAFETY DATA SHEET

Version 4.8
Revision Date 01/11/2018
Print Date 06/28/2019

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Beryllium

Product Number : 378135
Brand : Aldrich

CAS-No. : 7440-41-7

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 3), H301
Acute toxicity, Inhalation (Category 2), H330
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Skin sensitisation (Category 1), H317
Carcinogenicity (Category 1B), H350
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
Specific target organ toxicity - repeated exposure (Category 1), H372

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)

H301	Toxic if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H350	May cause cancer.
H372	Causes damage to organs through prolonged or repeated exposure.

Precautionary statement(s)	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P284	Wear respiratory protection.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	Be
Molecular weight	:	9.01 g/mol
CAS-No.	:	7440-41-7
EC-No.	:	231-150-7

Hazardous components

Component	Classification	Concentration
Berylium foil		
	Acute Tox. 3; Acute Tox. 2; Skin Irrit. 2; Eye Irrit. 2A; Skin Sens. 1; Carc. 1B; STOT SE 3; STOT RE 1; H301, H315, H317, H319, H330, H335, H350, H372	90 - 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place.
Storage class (TRGS 510): 4.1B: Flammable solid hazardous materials

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Berylium foil	7440-41-7	TWA	2.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		CEIL	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Peak	25.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		TWA	2.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
	Remarks	Z27.29-1970		
		CEIL	5.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		Peak	25.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		TWA	0.000050 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Beryllium sensitization Chronic beryllium disease (berylliosis) Confirmed human carcinogen Danger of cutaneous absorption Sensitizer		
		C	0.000500 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A		
		See Table Z-2		
		TWA	2.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		TWA	2.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		CEIL	5.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		CEIL	5.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		Peak	25.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		Peak	25.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		TWA	0.000050 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Beryllium sensitization Chronic beryllium disease (berylliosis)		

		Adopted values or notations enclosed are those for which changes are proposed in the NIC See Notice of Intended Changes (NIC) Confirmed human carcinogen Danger of cutaneous absorption Sensitizer		
		C	0.000500 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A		
		See Table Z-2		
		TWA	2microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		CEIL	5microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		Peak	25microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		C	0.0005 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A		
		PEL	0.0002 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		C	0.025 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an

industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder Colour: grey
b)	Odour	odourless
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 1,278 °C (2,332 °F) - lit.
f)	Initial boiling point and boiling range	2,970 °C (5,378 °F) - lit.
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	1.85 g/cm3 at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Alkali metals

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Beryllium oxides
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

Inhalation: No data available

Dermal: No data available

LD50 Intravenous - Rat - 0.496 mg/kg
Remarks: Liver:Hepatitis (hepatocellular necrosis), zonal.

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
Hamster
Lungs
Result: negative

Carcinogenicity

Carcinogenicity - Rat - Intratracheal
Tumorigenic:Neoplastic by RTECS criteria. Lungs, Thorax, or Respiration:Tumors. Lungs, Thorax, or Respiration:Bronchiogenic carcinoma.

Carcinogenicity - Rabbit - Intravenous
Tumorigenic:Equivocal tumorigenic agent by RTECS criteria. Musculoskeletal:Tumors.

Possible human carcinogen

IARC:	1 - Group 1: Carcinogenic to humans (Berylium foil)
NTP:	Known - Known to be human carcinogen (Berylium foil)
	Known - Known to be human carcinogenThe reference note has been added by TD based on the background information of the NTP. (Berylium foil)
OSHA:	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: DS1750000

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1567 Class: 6.1 (4.1) Packing group: II
Proper shipping name: Beryllium, powder
Reportable Quantity (RQ): 10 lbs
Poison Inhalation Hazard: No

IMDG
UN number: 1567 Class: 6.1 (4.1) Packing group: II EMS-No: F-G, S-G
Proper shipping name: BERYLLIUM POWDER

IATA
UN number: 1567 Class: 6.1 (4.1) Packing group: II
Proper shipping name: Beryllium powder

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Berylium foil	7440-41-7	1993-04-24

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Berylium foil	7440-41-7	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Berylium foil	7440-41-7	1993-04-24

	CAS-No.	Revision Date
Berylium foil	7440-41-7	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
Berylium foil	7440-41-7	1993-04-24

California Prop. 65 Components

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause cancer. Berylium foil	7440-41-7	2008-10-10

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Carc.	Carcinogenicity
Eye Irrit.	Eye irritation
H301	Toxic if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H350	May cause cancer.
H372	Causes damage to organs through prolonged or repeated exposure.
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitisation

HMIS Rating

Health hazard:	4
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	4
Fire Hazard:	3
Reactivity Hazard:	3

Further information

Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information
Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.8 Revision Date: 01/11/2018 Print Date: 06/28/2019

SAFETY DATA SHEET

Version 5.9
Revision Date 05/25/2016
Print Date 06/28/2019

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Bis(2-ethylhexyl) phthalate

Product Number : P6699
Brand : Sigma
Index-No. : 607-317-00-9

CAS-No. : 117-81-7

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Reproductive toxicity (Category 1B), H360

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)
H360 May damage fertility or the unborn child.

Precautionary statement(s)
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P281 Use personal protective equipment as required.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P405 Store locked up.
P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Endocrine disrupting chemical(s)

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	$C_{24}H_{38}O_4$
Molecular weight	:	390.56 g/mol
CAS-No.	:	117-81-7
EC-No.	:	204-211-0
Index-No.	:	607-317-00-9
Registration number	:	01-2119484611-38-XXXX

Hazardous components

Component	Classification	Concentration
bis(2-Ethylhexyl) phthalate Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)		
	Repr. 1B; H360	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

No data available

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
bis(2-Ethylhexyl) phthalate	117-81-7	TWA	5.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Lower Respiratory Tract irritation Confirmed animal carcinogen with unknown relevance to humans		
		TWA	5.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A		
		ST	10.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A		
		TWA	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		PEL	5 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.2 mm
Break through time: 480 min
Material tested:Dermatril® P (KCL 743 / Aldrich Z677388, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 120 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	-50.0 °C (-58.0 °F)
f)	Initial boiling point and boiling range	384.0 °C (723.2 °F)
g)	Flash point	207.0 °C (404.6 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Lower explosion limit: 0.3 %(V)
k)	Vapour pressure	1.6 hPa (1.2 mmHg) at 93.0 °C (199.4 °F)
l)	Vapour density	No data available
m)	Relative density	0.98 g/cm3
n)	Water solubility	insoluble
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition	390.0 °C (734.0 °F)

	temperature	
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 30,000 mg/kg

Inhalation: No data available

LD50 Dermal - Rabbit - 25,000 mg/kg

No data available

Skin corrosion/irritation
Skin - Rabbit
Result: Mild skin irritation - 24 h

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Mild eye irritation - 24 h

Respiratory or skin sensitisation
Maximisation Test - Guinea pig
Result: Does not cause skin sensitisation.
(OECD Test Guideline 406)

Germ cell mutagenicity
No data available

Carcinogenicity

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

IARC: 2B - Group 2B: Possibly carcinogenic to humans (bis(2-Ethylhexyl) phthalate)

NTP: Reasonably anticipated to be a human carcinogen (bis(2-Ethylhexyl) phthalate)

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
May cause congenital malformation in the fetus.
Presumed human reproductive toxicant

May cause reproductive disorders.

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: TI0350000

Effects due to ingestion may include:, Gastrointestinal disturbance

Kidney -

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - > 0.67 mg/l - 96 h
	LC50 - Oncorhynchus mykiss (rainbow trout) - > 0.32 mg/l - 96 h
	LC50 - Cyprinodon variegatus (sheepshead minnow) - > 0.17 mg/l - 96 h
	LC50 - Lepomis macrochirus (Bluegill) - > 0.20 mg/l - 96 h
	NOEC - other fish - > 0.3 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	Immobilization EC50 - Daphnia magna (Water flea) - > 0.16 mg/l - 48 h

12.2 Persistence and degradability

Biodegradability	Result: - Readily biodegradable (OECD Test Guideline 301)

12.3 Bioaccumulative potential

Bioaccumulation	Oncorhynchus mykiss (rainbow trout) - 100 d - 0.014 mg/l Bioconcentration factor (BCF): 113 Remarks: Does not bioaccumulate.

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3082 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (bis(2-Ethylhexyl) phthalate)
Reportable Quantity (RQ): 100 lbs

Poison Inhalation Hazard: No

IMDG
Not dangerous goods

IATA
Not dangerous goods

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
bis(2-Ethylhexyl) phthalate	117-81-7	2007-07-01

SARA 311/312 Hazards
Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
bis(2-Ethylhexyl) phthalate	117-81-7	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
bis(2-Ethylhexyl) phthalate	117-81-7	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
bis(2-Ethylhexyl) phthalate	117-81-7	2007-07-01

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer. bis(2-Ethylhexyl) phthalate	CAS-No. 117-81-7	Revision Date 2009-02-01
WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. bis(2-Ethylhexyl) phthalate	CAS-No. 117-81-7	Revision Date 2009-02-01

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H360	May damage fertility or the unborn child.
Repr.	Reproductive toxicity

HMIS Rating

Health hazard:	0
Chronic Health Hazard:	*
Flammability:	1
Physical Hazard	0

NFPA Rating

Health hazard:	0
Fire Hazard:	1
Reactivity Hazard:	0

Further information

Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.9 Revision Date: 05/25/2016 Print Date: 06/28/2019

SAFETY DATA SHEET

Version 3.8
Revision Date 12/29/2016
Print Date 01/21/2019

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Butylbenzene

Product Number : 41105
Brand : Supelco

CAS-No. : 104-51-8

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable liquids (Category 3), H226

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Warning

Hazard statement(s)
H226 Flammable liquid and vapour.

Precautionary statement(s)
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P280 Wear protective gloves/ eye protection/ face protection.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	C10H14
Molecular weight	:	134.22 g/mol
CAS-No.	:	104-51-8
EC-No.	:	203-209-7

Hazardous components

Component	Classification	Concentration
Butylbenzene		
	Flam. Liq. 3; H226	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Avoid breathing vapours, mist or gas. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid inhalation of vapour or mist.
Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature 2 - 8 °C

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.
Hazardous components without workplace control parameters

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Splash contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an

industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Impervious clothing, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid, clear Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	-88.0 °C (-126.4 °F)
f)	Initial boiling point and boiling range	182.0 - 183.0 °C (359.6 - 361.4 °F)
g)	Flash point	59.0 °C (138.2 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 5.8 %(V) Lower explosion limit: 0.8 %(V)
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	0.86 g/cm3
n)	Water solubility	insoluble
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	412.0 °C (773.6 °F)
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
Heat, flames and sparks.

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: CY9070000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 2709 Class: 3 Packing group: III
Proper shipping name: Butyl benzenes
Reportable Quantity (RQ):
Marine pollutant:yes
Poison Inhalation Hazard: No

IMDG
UN number: 2709 Class: 3 Packing group: III EMS-No: F-E, S-D
Proper shipping name: BUTYLBENZENES
Marine pollutant:yes

IATA
UN number: 2709 Class: 3 Packing group: III
Proper shipping name: Butylbenzenes

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Fire Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Butylbenzene	104-51-8	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Butylbenzene	104-51-8	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
Butylbenzene	104-51-8	1993-04-24

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Flam. Liq.	Flammable liquids
H226	Flammable liquid and vapour.

HMIS Rating

Health hazard:	0
Chronic Health Hazard:	
Flammability:	2
Physical Hazard	0

NFPA Rating

Health hazard:	0
Fire Hazard:	2
Reactivity Hazard:	0

Further information

Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 3.8 Revision Date: 12/29/2016 Print Date: 01/21/2019

SAFETY DATA SHEET

Version 4.8
Revision Date 01/11/2018
Print Date 06/28/2019

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Beryllium

Product Number : 378135
Brand : Aldrich

CAS-No. : 7440-41-7

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 3), H301
Acute toxicity, Inhalation (Category 2), H330
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Skin sensitisation (Category 1), H317
Carcinogenicity (Category 1B), H350
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
Specific target organ toxicity - repeated exposure (Category 1), H372

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)

H301	Toxic if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H350	May cause cancer.
H372	Causes damage to organs through prolonged or repeated exposure.

Precautionary statement(s)	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P284	Wear respiratory protection.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	Be
Molecular weight	:	9.01 g/mol
CAS-No.	:	7440-41-7
EC-No.	:	231-150-7

Hazardous components

Component	Classification	Concentration
Berylium foil		
	Acute Tox. 3; Acute Tox. 2; Skin Irrit. 2; Eye Irrit. 2A; Skin Sens. 1; Carc. 1B; STOT SE 3; STOT RE 1; H301, H315, H317, H319, H330, H335, H350, H372	90 - 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place.
Storage class (TRGS 510): 4.1B: Flammable solid hazardous materials

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Berylium foil	7440-41-7	TWA	2.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		CEIL	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Peak	25.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		TWA	2.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
	Remarks	Z27.29-1970		
		CEIL	5.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		Peak	25.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		TWA	0.000050 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Beryllium sensitization Chronic beryllium disease (berylliosis) Confirmed human carcinogen Danger of cutaneous absorption Sensitizer		
		C	0.000500 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A		
		See Table Z-2		
		TWA	2.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		TWA	2.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		CEIL	5.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		CEIL	5.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		Peak	25.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		Peak	25.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		TWA	0.000050 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Beryllium sensitization Chronic beryllium disease (berylliosis)		

		Adopted values or notations enclosed are those for which changes are proposed in the NIC See Notice of Intended Changes (NIC) Confirmed human carcinogen Danger of cutaneous absorption Sensitizer		
		C	0.000500 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A		
		See Table Z-2		
		TWA	2microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		CEIL	5microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		Peak	25microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		C	0.0005 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A		
		PEL	0.0002 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		C	0.025 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an

industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder Colour: grey
b)	Odour	odourless
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 1,278 °C (2,332 °F) - lit.
f)	Initial boiling point and boiling range	2,970 °C (5,378 °F) - lit.
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	1.85 g/cm3 at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Alkali metals

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Beryllium oxides
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

Inhalation: No data available

Dermal: No data available

LD50 Intravenous - Rat - 0.496 mg/kg
Remarks: Liver:Hepatitis (hepatocellular necrosis), zonal.

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
Hamster
Lungs
Result: negative

Carcinogenicity

Carcinogenicity - Rat - Intratracheal
Tumorigenic:Neoplastic by RTECS criteria. Lungs, Thorax, or Respiration:Tumors. Lungs, Thorax, or Respiration:Bronchiogenic carcinoma.

Carcinogenicity - Rabbit - Intravenous
Tumorigenic:Equivocal tumorigenic agent by RTECS criteria. Musculoskeletal:Tumors.

Possible human carcinogen

IARC:	1 - Group 1: Carcinogenic to humans (Berylium foil)
NTP:	Known - Known to be human carcinogen (Berylium foil)
	Known - Known to be human carcinogenThe reference note has been added by TD based on the background information of the NTP. (Berylium foil)
OSHA:	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: DS1750000

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1567 Class: 6.1 (4.1) Packing group: II
Proper shipping name: Beryllium, powder
Reportable Quantity (RQ): 10 lbs
Poison Inhalation Hazard: No

IMDG
UN number: 1567 Class: 6.1 (4.1) Packing group: II EMS-No: F-G, S-G
Proper shipping name: BERYLLIUM POWDER

IATA
UN number: 1567 Class: 6.1 (4.1) Packing group: II
Proper shipping name: Beryllium powder

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Berylium foil	7440-41-7	1993-04-24

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Berylium foil	7440-41-7	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Berylium foil	7440-41-7	1993-04-24

	CAS-No.	Revision Date
Berylium foil	7440-41-7	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
Berylium foil	7440-41-7	1993-04-24

California Prop. 65 Components

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause cancer. Berylium foil	7440-41-7	2008-10-10

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Carc.	Carcinogenicity
Eye Irrit.	Eye irritation
H301	Toxic if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H350	May cause cancer.
H372	Causes damage to organs through prolonged or repeated exposure.
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitisation

HMIS Rating

Health hazard:	4
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	4
Fire Hazard:	3
Reactivity Hazard:	3

Further information

Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information
Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.8 Revision Date: 01/11/2018 Print Date: 06/28/2019

SAFETY DATA SHEET

Version 6.3
Revision Date 04/05/2019
Print Date 06/28/2019

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Chromium

Product Number : 374849
Brand : Aldrich
CAS-No. : 7440-47-3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 Spruce Street
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Formula : Cr
Molecular weight : 52.00 g/mol
CAS-No. : 7440-47-3
EC-No. : 231-157-5

Component	Classification	Concentration

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

Chromium		
		<= 100 %

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice
Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact
Wash off with soap and plenty of water.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Chromium oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapours, mist or gas.
For personal protection see section 8.

6.2 Environmental precautions

No special environmental precautions required.

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

6.3 Methods and materials for containment and cleaning up
Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): 13: Non Combustible Solids

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Chromium	7440-47-3	PEL	0.5 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
	Remarks	see Sections 1532.2, 5206 & 8359		
		TWA	1 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	0.5 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Skin irritation Adopted values or notations enclosed are those for which changes are proposed in the NIC See Notice of Intended Changes (NIC) Not classifiable as a human carcinogen varies		

8.2 Exposure controls

Appropriate engineering controls
General industrial hygiene practice.

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
No special environmental precautions required.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: chips Colour: light grey
b)	Odour	odourless
c)	Odour Threshold	No data available
d)	pH	No data available

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

e)	Melting point/freezing point	Melting point/range: 1,857 °C (3,375 °F) - lit.
f)	Initial boiling point and boiling range	2,672 °C 4,842 °F - lit.
g)	Flash point	()Not applicable
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	7.14 g/mL at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

SECTION 10: Stability and reactivity

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong acids, Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Chromium oxides
Other decomposition products - No data available
In the event of fire: see section 5

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
No data available
Inhalation: No data available
Dermal: No data available
No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: GB4200000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence
Stomach - Irregularities - Based on Human Evidence

SECTION 12: Ecological information

12.1 Toxicity

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

Toxicity to fish	LC50 - Cyprinus carpio (Carp) - 14.3 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 0.07 mg/l - 48 h

12.2 Persistence and degradability
The methods for determining biodegradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

Bioaccumulation	Oncorhynchus mykiss (rainbow trout) - 30 d - 50 µg/l(Chromium)
	Bioconcentration factor (BCF): 1.03 - 1.22

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product.

SECTION 14: Transport information

DOT (US)
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. ()
Reportable Quantity (RQ): 5000 lbs
Reportable Quantity (RQ): 10 lbs
Poison Inhalation Hazard: No

IMDG
UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. ()
Marine pollutant : yes

IATA
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. ()
Further information
EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

SECTION 15: Regulatory information

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Chromium	7440-47-3	2007-07-01

SARA 311/312 Hazards

Chronic Health Hazard

Reportable Quantity : D007 lbs

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Chromium	7440-47-3	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Chromium	7440-47-3	2007-07-01

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16: Other information

Further information

Copyright 2018 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact mlsbranding@sial.com.

Version: 6.3 Revision Date: 04/05/2019 Print Date: 06/28/2019

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

SAFETY DATA SHEET

Version 5.10
Revision Date 01/10/2018
Print Date 06/22/2019

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : CHRYSENE, 98%

Product Number : 245186
Brand : Aldrich

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Germ cell mutagenicity (Category 2), H341
Carcinogenicity (Category 1B), H350
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)

H341	Suspected of causing genetic defects.
H350	May cause cancer.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P273	Avoid release to the environment.
P281	Use personal protective equipment as required.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P391	Collect spillage.
P405	Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula : $C_{18}H_{12}$

Molecular weight : 228.29 g/mol

Hazardous components

Component	Classification	Concentration
Chrysene		
	Muta. 2; Carc. 1B; Aquatic Acute 1; Aquatic Chronic 1; H341, H350, H410	90 - 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): 6.1D: Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
	Remarks	Cancer Substances for which there is a Biological Exposure Index or Indices (see BEI® section), see BEI® for Polycyclic Aromatic Hydrocarbons (PAHs) Exposure by all routes should be carefully controlled to levels as low as possible. Confirmed animal carcinogen with unknown relevance to humans		
Chrysene	218-01-9	TWA	0.200000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	0.200000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		1910.1002 As used in §1910.1000 (Table Z-1), coal tar pitch volatiles include the fused polycyclic hydrocarbons which volatilize from the distillation residues of coal, petroleum (excluding asphalt), wood, and other organic matter. Asphalt (CAS 8052-42-4, and CAS 64742-93-4) is not covered under the 'coal tar pitch volatiles' standard OSHA specifically regulated carcinogen		
		TWA	0.100000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen NIOSH considers coal tar, coal tar pitch, and creosote to be coal tar products. cyclohexane-extractable fraction See Appendix C		

		See Appendix A		
		PEL	0.2 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
	-	1-Hydroxypyrene		Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift at end of workweek			

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance Form: solid

		Colour: white, light yellow
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	253.0 °C (487.4 °F)
f)	Initial boiling point and boiling range	448.0 °C (838.4 °F)
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	insoluble
o)	Partition coefficient: n-octanol/water	log Pow: 5.73
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

Inhalation: No data available

Dermal: No data available

LD50 Intraperitoneal - Mouse - > 320 mg/kg

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
Laboratory experiments have shown mutagenic effects.
In vitro tests showed mutagenic effects

Carcinogenicity

This product is or contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.

Possible human carcinogen

IARC:	2B - Group 2B: Possibly carcinogenic to humans (Chrysene)
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	OSHA specifically regulated carcinogen (Chrysene)

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 1.90 mg/l - 2 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Chrysene)
Reportable Quantity (RQ): 100 lbs
Poison Inhalation Hazard: No

IMDG
UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Chrysene)
Marine pollutant:yes

IATA
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Chrysene)

Further information
EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Chrysene	218-01-9	1994-04-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Chrysene	218-01-9	1994-04-01

	CAS-No.	Revision Date
Chrysene	218-01-9	1994-04-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Chrysene	218-01-9	1994-04-01

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer.	CAS-No.	Revision Date
Chrysene	218-01-9	2007-09-28

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	0
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	0
Fire Hazard:	0
Reactivity Hazard:	0

Further information

Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.10 Revision Date: 01/10/2018 Print Date: 06/22/2019

SAFETY DATA SHEET

Version 6.1
Revision Date 03/12/2019
Print Date 06/22/2019

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Copper

Product Number : 31284
Brand : Aldrich
CAS-No. : 7440-50-8

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 Spruce Street
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Formula : Cu
Molecular weight : 63.55 g/mol
CAS-No. : 7440-50-8
EC-No. : 231-159-6

Component	Classification	Concentration

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

Copper,		
		<= 100 %

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact
Wash off with soap and plenty of water.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Copper oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapours, mist or gas.
For personal protection see section 8.

6.2 Environmental precautions

No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

6.4 Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

Store under inert gas. Air sensitive.
Storage class (TRGS 510): 13: Non Combustible Solids

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Copper,	7440-50-8	TWA	1 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Irritation Gastrointestinal metal fume fever		
		TWA	0.2 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Irritation Gastrointestinal metal fume fever		

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

		TWA	1 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	1 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	1 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	0.1 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		PEL	0.1 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

8.2 Exposure controls

Appropriate engineering controls
General industrial hygiene practice.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

Respiratory protection
Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
No special environmental precautions required.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: Wire Colour: light red
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 1,083.4 °C (1,982.1 °F)
f)	Initial boiling point and boiling range	2,567 °C 4,653 °F
g)	Flash point	()No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	8.940 g/cm3
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

SECTION 10: Stability and reactivity

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong acids, Strong oxidizing agents, Acid chlorides, Halogens

10.6 Hazardous decomposition products
Other decomposition products - No data available
Hazardous decomposition products formed under fire conditions. - Copper oxides
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
No data available
Inhalation: No data available
Dermal: No data available
LD50 Intraperitoneal - Mouse - 3.5 mg/kg

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available
No data available

Specific target organ toxicity - single exposure
No data available

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: GL5325000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information

12.1 Toxicity
No data available

12.2 Persistence and degradability
The methods for determining biodegradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product.

SECTION 14: Transport information

DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

SECTION 15: Regulatory information

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
No SARA Hazards

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

Copper,	CAS-No. 7440-50-8	Revision Date 1993-02-16

Copper,	CAS-No. 7440-50-8	Revision Date 1993-02-16

New Jersey Right To Know Components

Copper,	CAS-No. 7440-50-8	Revision Date 1993-02-16

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16: Other information

Further information
Copyright 2018 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact mlsbranding@sial.com.

Version: 6.1 Revision Date: 03/12/2019 Print Date: 06/22/2019

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

SAFETY DATA SHEET

Version 6.1
Revision Date 05/28/2017
Print Date 06/28/2019

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Cyclohexane

Product Number : 227048
Brand : Sigma-Aldrich
Index-No. : 601-017-00-1

CAS-No. : 110-82-7

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 Spruce Street
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable liquids (Category 2), H225
Skin irritation (Category 2), H315
Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336
Aspiration hazard (Category 1), H304
Acute aquatic toxicity (Category 1), H400

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)
H225 Highly flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H400 Very toxic to aquatic life.

Precautionary statement(s)

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection/ face protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P312	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P331	Do NOT induce vomiting.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	C<SB>6</>H<SB>12</>
Molecular weight	:	84.16 g/mol
CAS-No.	:	110-82-7
EC-No.	:	203-806-2
Index-No.	:	601-017-00-1

Hazardous components

Component	Classification	Concentration
Cyclohexane		
	Flam. Liq. 2; Skin Irrit. 2; STOT SE 3; Asp. Tox. 1; Aquatic Acute 1; H225, H304, H315, H336, H400	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Use explosion-proof equipment.Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Store under inert gas.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Cyclohexane	110-82-7	TWA	100.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Central Nervous System impairment		
		TWA	300.000000 ppm 1,050.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	300.000000 ppm 1,050.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		The value in mg/m3 is approximate.		

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.4 mm
Break through time: 480 min
Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 35 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industria situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use (US) or type ABEK (EN 14387) respirator cartridges as a backup to enginee protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 4 - 7 °C (39 - 45 °F) - lit.
f)	Initial boiling point and boiling range	80.7 °C (177.3 °F) - lit.
g)	Flash point	-18.0 °C (-0.4 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 9 %(V) Lower explosion limit: 1 %(V)
k)	Vapour pressure	225.0 hPa at 37.7 °C (99.9 °F) 102.7 hPa at 20.0 °C(68.0 °F)
l)	Vapour density	No data available
m)	Relative density	0.779 g/cm3 at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	log Pow: 3.44
p)	Auto-ignition temperature	260.0 °C (500.0 °F)
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Vapours may form explosive mixture with air.

10.4 Conditions to avoid
Heat, flames and sparks.

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 12,705 mg/kg(Cyclohexane)
LC50 Inhalation - Rat - 4 h - 34,000 mg/l(Cyclohexane)
(OECD Test Guideline 403)
LD50 Dermal - Rabbit - > 2,000 mg/kg(Cyclohexane)
No data available(Cyclohexane)

Skin corrosion/irritation
Skin - Rabbit(Cyclohexane)
Result: No skin irritation

Serious eye damage/eye irritation
Eyes - Rabbit(Cyclohexane)
Result: Mild eye irritation

Respiratory or skin sensitisation
No data available(Cyclohexane)

Germ cell mutagenicity

No data available(Cyclohexane)

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available(Cyclohexane)

No data available(Cyclohexane)

Specific target organ toxicity - single exposure
No data available(Cyclohexane)

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
May be fatal if swallowed and enters airways.(Cyclohexane)

Additional Information
RTECS: GU6300000

Central nervous system depression, Drowsiness, Irritability, Dizziness, Gastrointestinal disturbance, Lung irritation, chest pain, pulmonary edema(Cyclohexane)

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	flow-through test LC50 - Pimephales promelas (fathead minnow) - 4.53 mg/l - 96 h(Cyclohexane) (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	Immobilization EC50 - Daphnia magna (Water flea) - 0.9 mg/l - 48 h(Cyclohexane) (OECD Test Guideline 202)
Toxicity to algae	EC50 - Pseudokirchneriella subcapitata (green algae) - 3.4 mg/l - 72 h(Cyclohexane) (OECD Test Guideline 201)

12.2 Persistence and degradability

Biodegradability Result: - Readily biodegradable.

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available(Cyclohexane)

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN number: 1145 Class: 3 Packing group: II
Proper shipping name: Cyclohexane
Reportable Quantity (RQ) : 1000 lbs

Poison Inhalation Hazard: No

IMDG

UN number: 1145 Class: 3 Packing group: II EMS-No: F-E, S-D
Proper shipping name: CYCLOHEXANE
Marine pollutant : yes

IATA

UN number: 1145 Class: 3 Packing group: II
Proper shipping name: Cyclohexane

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Cyclohexane	110-82-7	2007-07-01

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Cyclohexane	110-82-7	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Cyclohexane	110-82-7	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Cyclohexane	110-82-7	2007-07-01

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	
Flammability:	3
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	3
Reactivity Hazard:	0

Further information
Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information
Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956
Version: 6.1 Revision Date: 05/28/2017 Print Date: 06/28/2019

MATERIAL SAFETY DATA SHEET

Date Printed: 20.10.2018
Date Updated: 07.05.2009
Version 1.4

Section 1 - Product and Company Information

Product Name	1,2:5,6-DIBENZANTHRACENE, 97% (NO BULK ORDERS ALLOWED)
Product Number	D31400
Brand	ALDRICH
Company	Sigma-Aldrich
Address	3050 Spruce Street SAINT LOUIS MO 63103 US
Technical Phone:	800-325-5832
Fax:	800-325-5052
Emergency Phone:	314-776-6555

Section 2 - Composition/Information on Ingredient

Substance Name	CAS #	SARA 313
1,2:5,6-DIBENZANTHRACENE	53-70-3	Yes

Formula	C22H14
Synonyms	1,2:5,6-Benzanthracene * DB(a,h)A * 1,2,5,6-Dba * 1,2,5,6-Dibenzanthraceen (Dutch) * 1,2:5,6-Dibenzanthracene * 1,2:5,6-Dibenz(a)anthracene * Dibenzo(a,h)anthracene * 1,2:5,6-Dibenzoanthracene * RCRA waste number U063
RTECS Number:	HN2625000

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Toxic. Dangerous for the environment.
May cause cancer. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Target organ(s): Lungs. Liver. Calif. Prop. 65 carcinogen.

HMIS RATING

HEALTH: 2*
FLAMMABILITY: 0
REACTIVITY: 0

NFPA RATING

HEALTH: 2
FLAMMABILITY: 0
REACTIVITY: 0

*additional chronic hazards present.

For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

ORAL EXPOSURE
If swallowed, wash out mouth with water provided person is conscious. Call a physician.

INHALATION EXPOSURE
If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

DERMAL EXPOSURE
In case of contact, immediately wash skin with soap and copious amounts of water.

EYE EXPOSURE
In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Section 5 - Fire Fighting Measures

FLASH POINT
N/A

AUTOIGNITION TEMP
N/A

FLAMMABILITY
N/A

EXTINGUISHING MEDIA
Suitable: Carbon dioxide, dry chemical powder, or appropriate foam.

FIREFIGHTING
Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Specific Hazard(s): Emits toxic fumes under fire conditions.

Section 6 - Accidental Release Measures

PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL
Evacuate area.

PROCEDURE(S) OF PERSONAL PRECAUTION(S)
Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves. Wear disposable coveralls and discard them after use.

METHODS FOR CLEANING UP
Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

HANDLING
User Exposure: Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

STORAGE

Suitable: Keep tightly closed.

Section 8 - Exposure Controls / PPE

ENGINEERING CONTROLS

Use only in a chemical fume hood. Safety shower and eye bath.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.
Hand: Compatible chemical-resistant gloves.
Eye: Chemical safety goggles.

GENERAL HYGIENE MEASURES

Wash contaminated clothing before reuse. Wash thoroughly after handling.

EXPOSURE LIMITS

Country	Source	Type	Value
Poland		NDS	0.004 MG/M3
Poland		NDSCh	-
Poland		NDSP	-

Section 9 - Physical/Chemical Properties

Appearance: Physical State: Solid

Property	Value	At Temperature or Pressure
Molecular Weight	278,3500 AMU	
pH	N/A	
BP/BP Range	524,000 °C	760,000 mmHg
MP/MP Range	262,000 °C	
Freezing Point	N/A	
Vapor Pressure	N/A	
Vapor Density	N/A	
Saturated Vapor Conc.	N/A	
Bulk Density	N/A	
Odor Threshold	N/A	
Volatile%	N/A	
VOC Content	N/A	
Water Content	N/A	
Solvent Content	N/A	
Evaporation Rate	N/A	
Viscosity	N/A	
Surface Tension	N/A	
Partition Coefficient	N/A	
Decomposition Temp.	N/A	
Flash Point	N/A	
Explosion Limits	N/A	
Flammability	N/A	
Autoignition Temp	N/A	
Refractive Index	N/A	
Optical Rotation	N/A	
Miscellaneous Data	N/A	

Solubility N/A

N/A = not available

Section 10 - Stability and Reactivity

STABILITY
Stable: Stable.
Materials to Avoid: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS
Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide.

HAZARDOUS POLYMERIZATION
Hazardous Polymerization: Will not occur

Section 11 - Toxicological Information

ROUTE OF EXPOSURE
Skin Contact: May cause skin irritation.
Skin Absorption: May be harmful if absorbed through the skin.
Eye Contact: May cause eye irritation.
Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.
Ingestion: May be harmful if swallowed.

TARGET ORGAN(S) OR SYSTEM(S)
Lungs. Liver.

SIGNS AND SYMPTOMS OF EXPOSURE
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

CHRONIC EXPOSURE - CARCINOGEN
Result: This product is or contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.

Species: Rat
Route of Application: Intratracheal
Dose: 100 MG/KG
Result: Tumorigenic:Carcinogenic by RTECS criteria. Lungs, Thorax, or Respiration:Tumors.

Species: Mouse
Route of Application: Oral
Dose: 4160 MG/KG
Exposure Time: 26W
Frequency: I
Result: Lungs, Thorax, or Respiration:Tumors. Tumorigenic:Carcinogenic by RTECS criteria.

Species: Mouse
Route of Application: Skin
Dose: 1200 MG/KG
Exposure Time: 50W
Frequency: I
Result: Tumorigenic:Tumors at site or application. Tumorigenic:Carcinogenic by RTECS criteria. Skin and Appendages: Other: Tumors.

Species: Mouse
Route of Application: Subcutaneous
Dose: 445 UG/KG
Result: Skin and Appendages: Other: Tumors.
Tumorigenic:Carcinogenic by RTECS criteria. Tumorigenic:Tumors
at site or application.

Species: Mouse
Route of Application: Intravenous
Dose: 40 MG/KG
Result: Tumorigenic:Neoplastic by RTECS criteria. Lungs, Thorax,
or Respiration:Tumors. Liver:Tumors.

Species: Mouse
Route of Application: Implant
Dose: 80 MG/KG
Result: Kidney, Ureter, Bladder:Tumors. Tumorigenic:Carcinogenic
by RTECS criteria.

Species: Mouse
Route of Application: Multiple
Dose: 40 MG/KG
Exposure Time: 12D
Frequency: I
Result: Tumorigenic:Tumors at site or application. Lungs,
Thorax, or Respiration:Tumors. Tumorigenic:Equivocal tumorigenic
agent by RTECS criteria.

Species: Guinea pig
Route of Application: Subcutaneous
Dose: 250 MG/KG
Exposure Time: 24D
Frequency: I
Result: Tumorigenic:Equivocal tumorigenic agent by RTECS
criteria. Tumorigenic:Tumors at site or application. Lungs,
Thorax, or Respiration:Tumors.

Species: Guinea pig
Route of Application: Intravenous
Dose: 30 MG/KG
Result: Tumorigenic:Tumors at site or application. Lungs,
Thorax, or Respiration:Tumors. Tumorigenic:Equivocal tumorigenic
agent by RTECS criteria.

Species: Pigeon
Route of Application: Intramuscular
Dose: 6 MG/KG
Result: Tumorigenic:Carcinogenic by RTECS criteria.
Liver:Tumors. Tumorigenic:Tumors at site or application.

Species: Frog
Route of Application: Intrarenal
Dose: 12 MG/KG
Result: Kidney, Ureter, Bladder:Kidney tumors. Lungs, Thorax, or
Respiration:Tumors. Tumorigenic:Neoplastic by RTECS criteria.

Species: Mouse
Route of Application: Implant
Dose: 14 MG/KG

Result: Tumorigenic:Neoplastic by RTECS criteria.
Tumorigenic:Tumors at site or application.

Species: Mouse
Route of Application: Subcutaneous
Dose: 78 UG/KG
Result: Tumorigenic:Neoplastic by RTECS criteria.
Tumorigenic:Tumors at site or application.

Species: Mouse
Route of Application: Oral
Dose: 4520 MG/KG
Exposure Time: 36W
Frequency: C
Result: Tumorigenic:Carcinogenic by RTECS criteria. Lungs, Thorax, or Respiration:Tumors. Gastrointestinal:Tumors.

Species: Mouse
Route of Application: Implant
Dose: 200 MG/KG
Result: Tumorigenic:Neoplastic by RTECS criteria. Lungs, Thorax, or Respiration:Bronchiogenic carcinoma. Tumorigenic:Tumors at site or application.

Species: Mouse
Route of Application: Skin
Dose: 6 UG/KG
Result: Tumorigenic:Neoplastic by RTECS criteria. Skin and Appendages: Other: Tumors.

Species: Mouse
Route of Application: Subcutaneous
Dose: 6 MG/KG
Result: Tumorigenic:Equivocal tumorigenic agent by RTECS criteria. Tumorigenic:Tumors at site or application.

Species: Mouse
Route of Application: Skin
Dose: 400 MG/KG
Exposure Time: 40W
Frequency: I
Result: Tumorigenic:Neoplastic by RTECS criteria. Skin and Appendages: Other: Tumors.

Species: Mouse
Route of Application: Implant
Dose: 100 MG/KG
Result: Tumorigenic:Carcinogenic by RTECS criteria. Kidney, Ureter, Bladder:Tumors. Tumorigenic:Tumors at site or application.

Species: Rat
Route of Application: Subcutaneous
Dose: 135 MG/KG
Exposure Time: 9W
Frequency: I
Result: Tumorigenic:Neoplastic by RTECS criteria. Lungs, Thorax, or Respiration:Tumors. Tumorigenic:Tumors at site or application.

Species: Mouse

Route of Application: Subcutaneous
Dose: 400 MG/KG
Exposure Time: 10W
Frequency: I
Result: Tumorigenic:Neoplastic by RTECS criteria.
Tumorigenic:Tumors at site or application.

IARC CARCINOGEN LIST

Rating: Group 2A

NTP CARCINOGEN LIST

Rating: Anticipated to be a carcinogen.

CHRONIC EXPOSURE - MUTAGEN
Result: Laboratory experiments have shown mutagenic effects.

Species: Human
Dose: 360 NMOL/L
Cell Type: Embryo
Mutation test: DNA

Species: Human
Dose: 100 UMOL/L
Cell Type: fibroblast
Mutation test: Unscheduled DNA synthesis

Species: Human
Dose: 10 MG/L
Cell Type: Other cell types
Mutation test: Unscheduled DNA synthesis

Species: Human
Dose: 100 NMOL/L
Cell Type: HeLa cell
Mutation test: Unscheduled DNA synthesis

Species: Human
Dose: 54 UG/L
Cell Type: lymphocyte
Mutation test: Mutation in mammalian somatic cells.

Species: Rat
Route: Intratracheal
Dose: 25500 UG/KG
Exposure Time: 16H
Mutation test: Micronucleus test

Species: Rat
Route: Oral
Dose: 200 MG/KG
Mutation test: Morphological transformation.

Species: Rat
Dose: 100 UG/L
Cell Type: Embryo
Mutation test: Morphological transformation.

Species: Rat

Route: Intratracheal
Dose: 25560 UG/KG
Mutation test: DNA

Species: Rat
Route: Intratracheal
Dose: 51150 UG/KG
Mutation test: Sister chromatid exchange

Species: Mouse
Route: Intraperitoneal
Dose: 500 MG/KG
Mutation test: Micronucleus test

Species: Mouse
Dose: 4250 UG/L (+S9)
Cell Type: lymphocyte
Mutation test: Mutation in microorganisms

Species: Mouse
Dose: 500 UG/L
Cell Type: fibroblast
Mutation test: Morphological transformation.

Species: Mouse
Dose: 100 UG/L
Cell Type: Embryo
Mutation test: Morphological transformation.

Species: Mouse
Dose: 6 UMOL/L
Cell Type: liver
Mutation test: DNA

Species: Mouse
Route: Skin
Dose: 40 UMOL/KG
Mutation test: DNA

Species: Mouse
Dose: 1 MG/L
Cell Type: Other cell types
Mutation test: DNA

Species: Mouse
Dose: 1 MG/L
Cell Type: Other cell types
Mutation test: Other mutation test systems

Species: Mouse
Dose: 510 NMOL/L
Cell Type: Embryo
Mutation test: DNA

Species: Mouse
Dose: 510 NMOL/L
Cell Type: Embryo
Mutation test: Other mutation test systems

Species: Hamster

Dose: 56400 NMOL/L (+S9)
Cell Type: lung
Mutation test: Mutation in microorganisms

Species: Hamster
Dose: 2500 UG/L
Cell Type: Embryo
Mutation test: Morphological transformation.

Species: Hamster
Dose: 25 UG/L
Cell Type: kidney
Mutation test: Morphological transformation.

Species: Hamster
Dose: 5 MG/L
Exposure Time: 24H
Cell Type: fibroblast
Mutation test: DNA damage

Species: Hamster
Dose: 360 NMOL/L
Cell Type: Embryo
Mutation test: DNA

Species: Hamster
Dose: 5 MG/L
Cell Type: kidney
Mutation test: DNA damage

Species: Hamster
Dose: 1 MG/L
Cell Type: lung
Mutation test: DNA

Species: Hamster
Dose: 1 MG/L
Cell Type: lung
Mutation test: Other mutation test systems

Species: Hamster
Dose: 1 MMOL/L
Cell Type: fibroblast
Mutation test: Cytogenetic analysis

Species: Hamster
Route: Intraperitoneal
Dose: 900 MG/KG
Exposure Time: 24H
Mutation test: Sister chromatid exchange

Species: Hamster
Dose: 500 UG/L
Cell Type: lung
Mutation test: Mutation in mammalian somatic cells.

Species: Mammal
Dose: 2 NMOL/L
Cell Type: lymphocyte
Mutation test: DNA damage

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION
Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state, and local environmental regulations. (DN)Requires special label: "Contains a substance which is regulated by Dannish work environmental law due to the risk of carcinogenic properties."

Section 14 - Transport Information

DOT
Proper Shipping Name: Environmentally hazardous substances, solid, n.o.s.
UN#: 3077
Class: 9
Packing Group: Packing Group III
Hazard Label: Class 9
PIH: Not PIH

IATA
Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s
IATA UN Number: 3077
Hazard Class: 9
Packing Group: III

Section 15 - Regulatory Information

EU DIRECTIVES CLASSIFICATION
Symbol of Danger: T-N
Indication of Danger: Toxic. Dangerous for the environment.
R: 45-50/53
Risk Statements: May cause cancer. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S: 53-45-60-61
Safety Statements: Restricted to professional users. Attention - Avoid exposure - obtain special instructions before use. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/safety data sheets.

US CLASSIFICATION AND LABEL TEXT
Indication of Danger: Toxic. Dangerous for the environment.
Risk Statements: May cause cancer. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety Statements: Restricted to professional users. Attention - Avoid exposure - obtain special instructions before use. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Wear suitable protective clothing, gloves, and eye/face protection. This

material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/safety data sheets.
US Statements: Target organ(s): Lungs. Liver. Calif. Prop. 65 carcinogen.

UNITED STATES REGULATORY INFORMATION
SARA LISTED: Yes
NOTES: This product is subject to SARA section 313 reporting requirements.
TSCA INVENTORY ITEM: Yes

UNITED STATES - STATE REGULATORY INFORMATION

CALIFORNIA PROP - 65
California Prop - 65: This product is or contains chemical(s) known to the state of California to cause cancer. This product is or contains chemical(s) known to the state of California to cause cancer.

CANADA REGULATORY INFORMATION
WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.
DSL: No
NDSL: Yes

Section 16 - Other Information

DISCLAIMER
For R&D use only. Not for drug, household or other uses.

WARRANTY
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.
Copyright 2010 Sigma-Aldrich Co. License granted to make unlimitedpaper copies for internal use only.

SAFETY DATA SHEET

Version 6.0
Revision Date 03/14/2018
Print Date 07/18/2019

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Dieldrin

Product Number : 33491
Brand : Sigma-Aldrich
Index-No. : 602-049-00-9

CAS-No. : 60-57-1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 Spruce Street
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 2), H300

Acute toxicity, Dermal (Category 1), H310

Carcinogenicity (Category 2), H351

Specific target organ toxicity - repeated exposure, Oral (Category 1), H372

Acute aquatic toxicity (Category 1), H400

Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word	Danger
Hazard statement(s)	
H300 + H310	Fatal if swallowed or in contact with skin
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure if swallowed.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary statement(s)	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P262	Do not get in eyes, on skin, or on clothing.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.
P302 + P350 + P310	IF ON SKIN: Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/ physician.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	1,2,3,4,10,10-Hexachloro-1,4,4a,5,6,7,8,8a-octahydro-6,7-epoxy-1,4:5,8-dimethanonaphthalene
Formula	:	$C_{12}H_8Cl_6O$
Molecular weight	:	380.91 g/mol
CAS-No.	:	60-57-1
EC-No.	:	200-484-5
Index-No.	:	602-049-00-9

Hazardous components

Component	Classification	Concentration
Dieldrin		
	Acute Tox. 2; Acute Tox. 1; Carc. 2; STOT RE 1; Aquatic Acute 1; Aquatic Chronic 1; H300 + H310, H351, H372, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Hydrogen chloride gas

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): 6.1B: Non-combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Dieldrin	60-57-1	TWA	0.100000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Central Nervous System impairment Liver damage Reproductive effects Confirmed animal carcinogen with unknown relevance to humans Danger of cutaneous absorption		
		TWA	0.250000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A Potential for dermal absorption		
		TWA	0.250000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Skin designation		
		TWA	0.1 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Liver damage Reproductive effects Confirmed animal carcinogen with unknown relevance to humans Danger of cutaneous absorption		
		TWA	0.25 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A Potential for dermal absorption		
		TWA	0.25 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Skin designation		
		TWA	0.25 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		Skin notation		
		PEL	0.25 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		Skin		

8.2 Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber

Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 143 - 144 °C (289 - 291 °F) - lit.
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available

q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 38.3 mg/kg
Inhalation: No data available
Dermal: No data available
No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity
This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.
Limited evidence of carcinogenicity in animal studies

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
Ingestion - Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard
No data available

Additional Information
RTECS: IO1750000

Discomfort, Headache, Nausea, Vomiting, Dizziness, Tremors, tonic convulsions, clonic spasms, Coma., respiratory failure, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Blood - Irregularities - Based on Human Evidence
Blood - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	mortality LC50 - Carassius auratus (goldfish) - 1.6 µg/l - 96.0 h(Dieldrin)
Toxicity to daphnia and other aquatic invertebrates	Immobilization EC50 - Daphnia magna (Water flea) - 79.5 µg/l - 48 h(Dieldrin)

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available(Dieldrin)

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 2811 Class: 6.1 Packing group: I
Proper shipping name: Toxic solids, organic, n.o.s. (Dieldrin)
Reportable Quantity (RQ) : 1 lbs

Marine pollutant: no no
Poison Inhalation Hazard: No

IMDG
UN number: 2811 Class: 6.1 Packing group: I EMS-No: F-A, S-A
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Dieldrin)
Marine pollutant : yes

IATA
UN number: 2811 Class: 6.1 Packing group: I
Proper shipping name: Toxic solid, organic, n.o.s. (Dieldrin)
IATA Passenger: Not permitted for transport
A5

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Dieldrin	60-57-1	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Dieldrin	60-57-1	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
Dieldrin	60-57-1	1993-04-24

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer. Dieldrin	CAS-No. 60-57-1	Revision Date 2007-09-28

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H300	Fatal if swallowed.
H300 + H310	Fatal if swallowed or in contact with skin
H310	Fatal in contact with skin.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	4
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	4
Fire Hazard:	0
Reactivity Hazard:	0

Further information

Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956
Version: 6.0 Revision Date: 03/14/2018 Print Date: 07/18/2019

SDS preview

ETHYLBENZENE

DANGER

100-41-4

by Fisher Scientific

Synonyms

Aethylbenzol [German], Benzene, ethyl-, CCRIS 916, Etilbenzene, Etylobenzen [Polish], Phenylethane, UNII-L5I45M5G0O, Aethylbenzol, AI3-09057, EC 202-849-4, Ethyl benzene, Ethylbenzeen, Ethylbenzeen [Dutch], Etilbenzene [Italian], Etylobenzen, HSDB 84, Ethylbenzene, Ethylbenzol, EB, EINECS 202-849-4, NCI-C56393, NSC 406903

Hazard statements

Harmful if inhaled
Highly flammable liquid and vapour
May be fatal if swallowed and enters airways
May cause damage to organs through prolonged or repeated exposure
May cause drowsiness or dizziness
May cause respiratory irritation
Suspected of causing cancer

Precautions

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Use only outdoors or in a well-ventilated area
Keep container tightly closed
Ground/bond container and receiving equipment
Use only non-sparking tools
Take precautionary measures against static discharge

Keep cool
Do NOT induce vomiting
Store locked up

Hazard category

Acute toxicity, inhalation, Aspiration hazard, Carcinogenicity, Flammable liquids, Specific target organ toxicity, repeated exposure, Specific target organ toxicity, single exposure; Narcotic effects, Specific target organ toxicity, single exposure; Respiratory tract irritation

200 View GHS Label&param1=ZmRwLjFfMDUyNjEwMDNORQ==&unique=1527865145)

The information contained herein is based on data compiled from the chemical components of the (M)SDS and may not accurately represent the safety hazards for the product. Only the manufacturer of the product can make actual representations about the hazard profile of a chemical product. No warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

© 2017 Chemical Safety Software

SAFETY DATA SHEET

Creation Date 26-Jan-2010 **Revision Date** 24-Dec-2021 **Revision Number** 6

1. Identification

Product Name **Heptane**

Cat No. : **H350-1; H350-2PR; H350-4; H350-4LC; H350-N219; H350-RS19; H350-RS200; H350-SK1; H350-SK4; H350-SS200; NC9030306**

Synonyms Normal heptane.; Heptane

Recommended Use Laboratory chemicals.
Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company
Fisher Scientific Company
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Emergency Telephone Number CHEMTREC®, Inside the USA: 800-424-9300
CHEMTREC®, Outside the USA: 001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 2
Skin Corrosion/Irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Central nervous system (CNS).	
Aspiration Toxicity	Category 1

Label Elements

Signal Word
Danger

Hazard Statements
Highly flammable liquid and vapor
May be fatal if swallowed and enters airways
Causes skin irritation

May cause drowsiness or dizziness

Precautionary Statements
Prevention
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Do not breathe dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Keep cool
Response
Get medical attention/advice if you feel unwell
Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor/physician if you feel unwell
Skin
If skin irritation occurs: Get medical advice/attention
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
Ingestion
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Do NOT induce vomiting
Fire
In case of fire: Use CO2, dry chemical, or foam for extinction
Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Very toxic to aquatic life with long lasting effects

3. Composition/Information on Ingredients

Component	CAS No	Weight %
n-Heptane	142-82-5	>99
Methylcyclohexane	108-87-2	0 - 0.2
Isooctane	26635-64-3	0 - 0.1
Dimethylcyclopentane	28729-52-4	0 - 0.1

4. First-aid measures

General Advice If symptoms persist, call a physician.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.

Inhalation Remove to fresh air. Get medical attention. Aspiration into lungs can produce severe lung damage. If not breathing, give artificial respiration. Risk of serious damage to the lungs (by aspiration).

Ingestion Do NOT induce vomiting. Call a physician or poison control center immediately. If vomiting occurs naturally, have victim lean forward.

Most important symptoms and effects Difficulty in breathing. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam. Water mist may be used to cool closed containers.

Unsuitable Extinguishing Media Water may be ineffective

Flash Point -4 °C / 24.8 °F

Method - No information available

Autoignition Temperature 215 °C / 419 °F

Explosion Limits

Upper	6.7 vol %
Lower	1.05 vol %
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical
Flammable. Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Do not allow run-off from fire-fighting to enter drains or water courses.

Hazardous Combustion Products
Carbon monoxide (CO). Carbon dioxide (CO_2).
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
3	3	0	N/A

6. Accidental release measures

Personal Precautions Use personal protective equipment as required. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.

Environmental Precautions Do not flush into surface water or sanitary sewer system. Do not allow material to

contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

Methods for Containment and Clean Up Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Take precautionary measures against static discharges.

7. Handling and storage

Handling Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Ensure adequate ventilation. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment.

Storage. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame. Flammables area. Incompatible Materials. Strong oxidizing agents.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
n-Heptane	TWA: 400 ppm STEL: 500 ppm	(Vacated) TWA: 400 ppm (Vacated) TWA: 1600 mg/m³ (Vacated) STEL: 500 ppm (Vacated) STEL: 2000 mg/m³ TWA: 500 ppm TWA: 2000 mg/m³	IDLH: 750 ppm TWA: 85 ppm TWA: 350 mg/m³ Ceiling: 440 ppm Ceiling: 1800 mg/m³	TWA: 400 ppm STEL: 500 ppm
Methylcyclohexane	TWA: 400 ppm	(Vacated) TWA: 400 ppm (Vacated) TWA: 1600 mg/m³ TWA: 500 ppm TWA: 2000 mg/m³	IDLH: 1200 ppm TWA: 400 ppm TWA: 1600 mg/m³	TWA: 400 ppm
Isooctane	TWA: 300 ppm			TWA: 300 ppm

Legend

ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures Use only under a chemical fume hood. Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/lighting equipment.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Tight sealing safety goggles. Face protection shield.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Liquid
Appearance	Colorless
Odor	Petroleum distillates
Odor Threshold	No information available
pH	No information available
Melting Point/Range	-91 °C / -131.8 °F
Boiling Point/Range	98 °C / 208.4 °F
Flash Point	-4 °C / 24.8 °F
Evaporation Rate	2.8 (Butyl Acetate = 1.0)
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	6.7 vol %
Lower	1.05 vol %
Vapor Pressure	48 mbar @ 20 °C
Vapor Density	3.5 (Air = 1.0)
Specific Gravity	0.683
Solubility	Insoluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	215 °C / 419 °F
Decomposition Temperature	No information available
Viscosity	0.4 mPa s at 20 °C
Molecular Formula	C7 H16
Molecular Weight	100.20

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products. Excess heat. Keep away from open flames, hot surfaces and sources of ignition.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO_2)

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
n-Heptane	>2000 mg/kg (rat)	LD50 = 3000 mg/kg (Rabbit)	LC50 > 73.5 mg/L (Rat) 4 h
Methylcyclohexane	LD50 > 3200 mg/kg (Rat)	LD50 > 86700 mg/kg (Rabbit)	Not listed

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Irritating to eyes and skin

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
n-Heptane	142-82-5	Not listed	Not listed	Not listed	Not listed	Not listed
Methylcyclohexane	108-87-2	Not listed	Not listed	Not listed	Not listed	Not listed
Isooctane	26635-64-3	Not listed	Not listed	Not listed	Not listed	Not listed
Dimethylcyclopentane	28729-52-4	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure Central nervous system (CNS)
STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
n-Heptane	Not listed	LC50: = 375.0 mg/L, 96h (Cichlid fish)	Not listed	EC50: >10 mg/L/24h
Methylcyclohexane	Not listed	LC50: = 2.07 mg/L, 96h semi-static (Oryzias latipes)	Not listed	Not listed

Persistence and Degradability May persist

Bioaccumulation/ Accumulation No information available.

Mobility Is not likely mobile in the environment due its low water solubility.

Component	log Pow
n-Heptane	4.66

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT

UN-No UN1206

Proper Shipping Name HEPTANES
Hazard Class 3
Packing Group II

TDG

UN-No UN1206
Proper Shipping Name HEPTANES
Hazard Class 3
Packing Group II

IATA

UN-No UN1206
Proper Shipping Name Heptanes
Hazard Class 3
Packing Group II

IMDG/IMO

UN-No UN1206
Proper Shipping Name Heptanes
Hazard Class 3
Packing Group II

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
n-Heptane	142-82-5	X	ACTIVE	-
Methylcyclohexane	108-87-2	X	ACTIVE	-
Isooctane	26635-64-3	X	ACTIVE	-
Dimethylcyclopentane	28729-52-4	-	-	-

Legend:
TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)
X - Listed
'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories
Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
n-Heptane	142-82-5	X	-	205-563-8	X	X	X	X	X	KE-18271
Methylcyclohexane	108-87-2	X	-	203-624-3	X	X	X	X	X	KE-23691
Isooctane	26635-64-3	-	X	247-861-0	X	X	X	-	X	KE-21552
Dimethylcyclopentane	28729-52-4	-	-	249-193-5	-	-		-	X	-

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

OSHA - Occupational Safety and Health Administration Not applicable

CERCLA Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
n-Heptane	X	X	X	-	X
Methylcyclohexane	X	X	X	-	X
Isooctane	-	-	X	-	-

U.S. Department of Transportation
Reportable Quantity (RQ): N
DOT Marine Pollutant Y
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade Serious risk, Grade 3

Authorisation/Restrictions according to EU REACH

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
n-Heptane	-	Use restricted. See item 75. (see link for restriction details)	-
Methylcyclohexane	-	Use restricted. See item 75. (see link for restriction details)	-
Isooctane	-	Use restricted. See item 75. (see link for restriction details)	-

https://echa.europa.eu/substances-restricted-under-reach

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
n-Heptane	142-82-5	Listed	Not applicable	Not applicable	Not applicable
Methylcyclohexane	108-87-2	Listed	Not applicable	Not applicable	Not applicable
Isooctane	26635-64-3	Listed	Not applicable	Not applicable	Not applicable
Dimethylcyclopentane	28729-52-4	Not applicable	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
n-Heptane	142-82-5	Not applicable	Not applicable	Not applicable	Not applicable
Methylcyclohexane	108-87-2	Not applicable	Not applicable	Not applicable	Not applicable
Isooctane	26635-64-3	Not applicable	Not applicable	Not applicable	Not applicable
Dimethylcyclopentane	28729-52-4	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information

Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date	26-Jan-2010
Revision Date	24-Dec-2021
Print Date	24-Dec-2021
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS

SAFETY DATA SHEET

Version 5.7
Revision Date 06/08/2018
Print Date 11/10/2018

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Hexane

Product Number : 296090
Brand : Sigma-Aldrich
Index-No. : 601-037-00-0

CAS-No. : 110-54-3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable liquids (Category 2), H225
Skin irritation (Category 2), H315
Reproductive toxicity (Category 2), H361
Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336
Specific target organ toxicity - repeated exposure, Oral (Category 2), Nervous system, H373
Aspiration hazard (Category 1), H304
Acute aquatic toxicity (Category 2), H401
Chronic aquatic toxicity (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs (Nervous system) through prolonged or repeated exposure if swallowed.

H411	Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P331	Do NOT induce vomiting.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	n-Hexane
Formula	:	C_6H_{14}
Molecular weight	:	86.18 g/mol
CAS-No.	:	110-54-3
EC-No.	:	203-777-6
Index-No.	:	601-037-00-0
Registration number	:	01-2119480412-44-XXXX

Hazardous components

Component	Classification	Concentration
n-Hexane		
	Flam. Liq. 2; Skin Irrit. 2; Repr. 2; STOT SE 3; STOT RE 2; Asp. Tox. 1; Aquatic Acute 2; Aquatic Chronic 2; H225, H304, H315, H336, H361f, H373, H411	90 - 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Flash back possible over considerable distance.Container explosion may occur under fire conditions.Use explosion-proof equipment.Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Storage class (TRGS 510): 3: Flammable liquids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
n-Hexane	110-54-3	TWA	50 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Central Nervous System impairment Eye irritation Peripheral neuropathy Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Danger of cutaneous absorption		
		TWA	50 ppm 180 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	500 ppm 1,800 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		The value in mg/m3 is approximate.		
		PEL	50 ppm 180 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		Skin		

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
	-	2,5-Hexanedione	0.4 mg/l	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift at end of workweek			

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.4 mm
Break through time: 480 min
Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.2 mm
Break through time: 59 min
Material tested:Dermatril® P (KCL 743 / Aldrich Z677388, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	7.0
e)	Melting point/freezing point	Melting point/range: -95 °C (-139 °F)
f)	Initial boiling point and boiling range	69 °C (156 °F)
g)	Flash point	-26.0 °C (-14.8 °F) - closed cup
h)	Evaporation rate	15.8
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 7.7 %(V) Lower explosion limit: 1.2 %(V)
k)	Vapour pressure	341.3 hPa (256.0 mmHg) at 37.7 °C (99.9 °F) 176.0 hPa (132.0 mmHg) at 20.0 °C (68.0 °F)
l)	Vapour density	No data available
m)	Relative density	0.659 g/mL at 25 °C (77 °F)
n)	Water solubility	insoluble
o)	Partition coefficient: n-octanol/water	log Pow: 3.90 - 4.11
p)	Auto-ignition temperature	234.0 °C (453.2 °F)

q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Vapours may form explosive mixture with air.

10.4 Conditions to avoid
Exposure to moisture may affect product quality.
Heat, flames and sparks.

10.5 Incompatible materials
Oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - No data available
Hazardous decomposition products formed under fire conditions. - Carbon oxides
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - male and female - 16,000 mg/kg
(OECD Test Guideline 401)

LC50 Inhalation - Rat - 4 h - 172 mg/l
Remarks: (RTECS)

LD50 Dermal - Rabbit - > 2,000 mg/kg
Remarks: (ECHA)

Skin corrosion/irritation
Serious eye damage/eye irritation
Respiratory or skin sensitisation
Germ cell mutagenicity
In vitro mammalian cell gene mutation test
Mouse lymphoma test
Result: Positive results were obtained in some in vitro tests.

Ames test
Salmonella typhimurium
Result: negative

Result: negative
(National Toxicology Program)

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
Suspected of damaging the unborn child.

Suspected of damaging fertility.

Specific target organ toxicity - single exposure
May cause drowsiness or dizziness. - Central nervous system

Specific target organ toxicity - repeated exposure
Inhalation - May cause damage to organs through prolonged or repeated exposure. - Nervous system

Aspiration hazard
Aspiration hazard, Aspiration may cause pulmonary oedema and pneumonitis.

Additional Information
RTECS: MN9275000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Drowsiness, irritant effects, somnolence
narcosis, Nausea, Tiredness, CNS disorders, paralysis symptoms
Risk of corneal clouding.
It generally applies for aliphatic hydrocarbons with 6 - 18 carbon atoms that they may cause pneumonia, in some cases also pulmonary oedema, upon direct inhalation, i.e. in conditions that can occur only in very special circumstances (nebulizations, spraying, inhalation of aerosols and similar). After absorption of very large quantities: narcosis.

Testes. - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - 2.5 mg/l - 96 h Remarks: (ECOTOX Database)
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 2.1 mg/l - 48 h Remarks: (Lit.)

12.2 Persistence and degradability

12.3 Bioaccumulative potential

12.4 Mobility in soil

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1208 Class: 3 Packing group: II
Proper shipping name: Hexanes
Reportable Quantity (RQ): 5000 lbs
Poison Inhalation Hazard: No

IMDG
UN number: 1208 Class: 3 Packing group: II EMS-No: F-E, S-D
Proper shipping name: HEXANES
Marine pollutant:yes

IATA
UN number: 1208 Class: 3 Packing group: II
Proper shipping name: Hexanes

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
n-Hexane	110-54-3	2007-07-01

Massachusetts Right To Know Components

	CAS-No.	Revision Date
n-Hexane	110-54-3	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
n-Hexane	110-54-3	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
n-Hexane	110-54-3	2007-07-01

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Asp. Tox.	Aspiration hazard
Flam. Liq.	Flammable liquids
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs (/$/*_2ORG_REP_ORA/$/) through prolonged or repeated exposure if swallowed.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

HMIS Rating
Health hazard: 2

Chronic Health Hazard:	*
Flammability:	3
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	3
Reactivity Hazard:	0

Further information

Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.7 Revision Date: 06/08/2018 Print Date: 11/10/2018

SAFETY DATA SHEET

Version 5.6
Revision Date 12/11/2017
Print Date 11/10/2018

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Indeno[1,2,3-*cd*]pyrene

Product Number : 48499
Brand : Supelco

CAS-No. : 193-39-5

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Carcinogenicity (Category 2), H351

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Warning

Hazard statement(s)
H351 Suspected of causing cancer.

Precautionary statement(s)
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P281 Use personal protective equipment as required.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P405 Store locked up.
P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	$C_{22}H_{12}$
Molecular weight	:	276.33 g/mol
CAS-No.	:	193-39-5
EC-No.	:	205-893-2

Hazardous components

Component	Classification	Concentration
Indeno[1,2,3-cd]pyrene		
	Carc. 2; H351	90 - 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

No data available

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

Store at room temperature.
Storage class (TRGS 510): 13: Non Combustible Solids

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.
Hazardous components without workplace control parameters

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Indeno[1,2,3-cd]pyrene	193-39-5	1-Hydroxypyrene (1-HP)		Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift at end of workweek			

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection
Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the

sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	163.6 °C (326.5 °F)
f)	Initial boiling point and boiling range	536.0 °C (996.8 °F)
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies

IARC:	2B - Group 2B: Possibly carcinogenic to humans (Indeno[1,2,3-cd]pyrene)
NTP:	RAHC - Reasonably anticipated to be a human carcinogen (Indeno[1,2,3-cd]pyrene)
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Indeno[1,2,3-cd]pyrene	193-39-5	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Indeno[1,2,3-cd]pyrene	193-39-5	1993-04-24

	CAS-No.	Revision Date
Indeno[1,2,3-cd]pyrene	193-39-5	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
Indeno[1,2,3-cd]pyrene	193-39-5	1993-04-24

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer. Indeno[1,2,3-cd]pyrene	CAS-No. 193-39-5	Revision Date 2007-09-28

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Carc.	Carcinogenicity
H351	Suspected of causing cancer.

HMIS Rating

Health hazard:	0
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	1
Fire Hazard:	0
Reactivity Hazard:	0

Further information

Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.6 Revision Date: 12/11/2017 Print Date: 11/10/2018

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006
Version 6.0 Revision Date 10.11.2016
Print Date 17.07.2019
GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Iron Metal Clinical

Product Number : NIST937
Brand : Sigma-Aldrich
REACH No. : A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 Spruce Street
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.2 Label elements

2.3 Other hazards - none

SECTION 3: Composition/information on ingredients

SECTION 4: First aid measures

4.1 Description of first aid measures

No data available

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media
No data available

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
No data available

5.4 Further information
No data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
For personal protection see section 8.

6.2 Environmental precautions
No data available

6.3 Methods and materials for containment and cleaning up
No data available

6.4 Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
No data available

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls
No data available

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	No data available
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available

j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

SECTION 10: Stability and reactivity

10.1 Reactivity
No data available

10.2 Chemical stability
No data available

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
No data available

10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Skin corrosion/irritation

Serious eye damage/eye irritation

Respiratory or skin sensitisation

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

Specific target organ toxicity - single exposure

Specific target organ toxicity - repeated exposure

Aspiration hazard

Additional Information
RTECS: Not available

SECTION 12: Ecological information

12.1 Toxicity

12.2 Persistence and degradability

12.3 Bioaccumulative potential

12.4 Mobility in soil

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

SECTION 13: Disposal considerations

13.1 Waste treatment methods
No data available

SECTION 14: Transport information

14.1 UN number

ADR/RID: -	IMDG: -	IATA: -

14.2 UN proper shipping name

ADR/RID:	Not dangerous goods
IMDG:	Not dangerous goods
IATA:	Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: -	IMDG: -	IATA: -

14.4 Packaging group

ADR/RID: -	IMDG: -	IATA: -

14.5 Environmental hazards

ADR/RID: no	IMDG Marine pollutant: no	IATA: no

14.6 Special precautions for user
No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment
For this product a chemical safety assessment was not carried out

SECTION 16: Other information

SAFETY DATA SHEET

Version 6.0
Revision Date 05/26/2018
Print Date 06/29/2019

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Cumene

Product Number : C87657
Brand : Aldrich
Index-No. : 601-024-00-X

CAS-No. : 98-82-8

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 Spruce Street
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable liquids (Category 3), H226

Carcinogenicity (Category 2), H351

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

Aspiration hazard (Category 1), H304

Acute aquatic toxicity (Category 2), H401

Chronic aquatic toxicity (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word	Danger

Hazard statement(s)

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P331	Do NOT induce vomiting.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

May form explosive peroxides.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	Isopropylbenzene
Molecular weight	:	120.19 g/mol
CAS-No.	:	98-82-8
EC-No.	:	202-704-5
Index-No.	:	601-024-00-X

Hazardous components

Component	Classification	Concentration
Cumene		
	Flam. Liq. 3; Carc. 2; STOT SE 3; Asp. Tox. 1; Aquatic Acute 2; Aquatic Chronic 2; H226, H304, H335, H351, H411	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Store under inert gas.
Storage class (TRGS 510): 3: Flammable liquids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Cumene	98-82-8	TWA	50 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Skin irritation Adopted values or notations enclosed are those for which changes are proposed in the NIC See Notice of Intended Changes (NIC)		
		TWA	50 ppm 245 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential for dermal absorption		
		TWA	50 ppm 245 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Skin designation The value in mg/m3 is approximate.		
		PEL	50 ppm 245 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		Skin		

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.4 mm
Break through time: 30 min
Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid, clear Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: -96 °C (-141 °F) - lit.
f)	Initial boiling point and boiling range	152 - 154 °C (306 - 309 °F) - lit.
g)	Flash point	31.0 °C (87.8 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 6.5 %(V) Lower explosion limit: 0.9 %(V)
k)	Vapour pressure	10.7 hPa at 20.0 °C (68.0 °F)
l)	Vapour density	No data available
m)	Relative density	0.864 g/mL at 25 °C (77 °F)
n)	Water solubility	0.06 g/l at 25 °C (77 °F) - slightly soluble
o)	Partition coefficient: n-octanol/water	log Pow: 3.55 at 23 °C (73 °F)
p)	Auto-ignition temperature	425.0 °C (797.0 °F)
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

Surface tension	27.69 mN/m at 25 °C (77 °F)

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.
Test for peroxide formation before distillation or evaporation. Test for peroxide formation or discard after 1 year.

10.3 Possibility of hazardous reactions
Vapours may form explosive mixture with air.

10.4 Conditions to avoid
Heat, flames and sparks.

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - male - 2,260 mg/kg
Inhalation: No data available
Dermal: No data available
NOAEL Feed - Rat - male - > 535.8 mg/kg

Skin corrosion/irritation
Skin - Rabbit
Result: No skin irritation
(OECD Test Guideline 404)

Serious eye damage/eye irritation
Eyes - Rabbit
Result: No eye irritation
(OECD Test Guideline 405)

Respiratory or skin sensitisation
- Guinea pig
Result: Did not cause sensitisation on laboratory animals.
(OECD Test Guideline 406)

Germ cell mutagenicity
in vitro assay
S. typhimurium
Result: negative
Mutagenicity (micronucleus test)
Mouse - male and female
Result: negative

Carcinogenicity

IARC:	2B - Group 2B: Possibly carcinogenic to humans (Cumene)
NTP:	RAHC - Reasonably anticipated to be a human carcinogen (Cumene)
OSHA:	No component of this product present at levels greater than or equal to 0.1% is on OSHA's

list of regulated carcinogens.

Reproductive toxicity
No data available
No data available

Specific target organ toxicity - single exposure
May cause respiratory irritation.

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
May be fatal if swallowed and enters airways.

Additional Information
RTECS: GR8575000

narcosis, Central nervous system depression, Dermatitis, Gastrointestinal disturbance, Damage to the lungs., Liver injury may occur., Kidney injury may occur.

Stomach - Irregularities - Based on Human Evidence
Stomach - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Oncorhynchus mykiss (rainbow trout) - 4.8 mg/l - 96 h(Cumene)
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia (water flea) - 2.14 mg/l - 48 h(Cumene) (OECD Test Guideline 202)
Toxicity to algae	EC50 - Pseudokirchneriella subcapitata (green algae) - 2.60 mg/l - 72 h(Cumene)

12.2 Persistence and degradability

Biodegradability	Result: - According to the results of tests of biodegradability this product is not readily biodegradable.

No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available(Cumene)

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1918 Class: 3 Packing group: III
Proper shipping name: Isopropylbenzene
Reportable Quantity (RQ) : 5000 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 1918 Class: 3 Packing group: III EMS-No: F-E, S-E
Proper shipping name: ISOPROPYLBENZENE
Marine pollutant : yes

IATA
UN number: 1918 Class: 3 Packing group: III
Proper shipping name: Isopropylbenzene

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Cumene	98-82-8	2007-07-01

SARA 311/312 Hazards
Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Cumene	98-82-8	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Cumene	98-82-8	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Cumene	98-82-8	2007-07-01

California Prop. 65 Components

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause cancer. Cumene	98-82-8	2010-06-11

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	3
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	3
Reactivity Hazard:	0

Further information

Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956
Version: 6.0 Revision Date: 05/26/2018 Print Date: 06/29/2019

SAFETY DATA SHEET

Version 4.11
Revision Date 10/12/2018
Print Date 06/28/2019

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Lead

Product Number : 391352
Brand : Aldrich

CAS-No. : 7439-92-1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 4), H302
Carcinogenicity (Category 2), H351
Reproductive toxicity (Category 2), H361
Specific target organ toxicity - repeated exposure (Category 2), H373
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Warning

Hazard statement(s)

H302	Harmful if swallowed.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.

P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	Pb
Molecular weight	:	207.20 g/mol
CAS-No.	:	7439-92-1
EC-No.	:	231-100-4

Hazardous components

Component	Classification	Concentration
Lead		
	Acute Tox. 4; Carc. 2; STOT RE 1; Aquatic Acute 1; Aquatic Chronic 1; H302, H351, H372, H410	90 - 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place.
Storage class (TRGS 510): 6.1D: Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
	Remarks	See 1910.1025		
Lead	7439-92-1	TWA	0.05 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Confirmed animal carcinogen with unknown relevance to humans		
		TWA	0.05 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Hematologic effects Peripheral Nervous System impairment Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Confirmed animal carcinogen with unknown relevance to humans		

		TWA	0.05 mg/m3	USA. NIOSH Recommended Exposure Limits
		See Appendix C		

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
	-	Lead	200 µg/l	In blood	ACGIH - Biological Exposure Indices (BEI)
	Remarks	Not critical			

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance — Form: powder

b) Odour — No data available

c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 327.4 °C (621.3 °F) - lit.
f)	Initial boiling point and boiling range	1,740 °C (3,164 °F) - lit.
g)	Flash point	Not applicable
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong acids

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Lead oxides
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity

Rat
Cytogenetic analysis

Carcinogenicity

Limited evidence of carcinogenicity in animal studies

IARC:	2B - Group 2B: Possibly carcinogenic to humans (Lead)
NTP:	RAHC - Reasonably anticipated to be a human carcinogenThe reference note has been added by TD based on the background information of the NTP. (Lead)
OSHA:	OSHA specifically regulated carcinogen (Lead)

Reproductive toxicity

Reproductive toxicity - Rat - Inhalation
Effects on Newborn: Biochemical and metabolic.

Reproductive toxicity - Rat - Oral
Effects on Newborn: Behavioral.

Reproductive toxicity - Mouse - Oral
Effects on Fertility: Female fertility index (e.g., # females pregnant per females mated). Effects on Fertility: Pre-implantation mortality (e.g., reduction in numbe corpora lutea).

May damage fertility. May damage the unborn child.

Developmental Toxicity - Rat - Inhalation
Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Specific Developmental Abnormalities: Blood and lymphatic system (including spleen and marrow).

Developmental Toxicity - Rat - Oral
Specific Developmental Abnormalities: Blood and lymphatic system (including spleen and marrow). Effects on Newborn: Growth statistics (e.g., reduced weight gain).

Developmental Toxicity - Rat - Oral
Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Effects on Embryo or Fetus: Fetal death.

Developmental Toxicity - Mouse - Oral
Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Effects on Embryo or Fetus: Fetal death.

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard
No data available

Additional Information
RTECS: OF7525000

anemia

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	mortality LOEC - Oncorhynchus mykiss (rainbow trout) - 1.19 mg/l - 96.0 h
	LC50 - Micropterus dolomieui - 2.2 mg/l - 96.0 h
	mortality NOEC - Salvelinus fontinalis - 1.7 mg/l - 10.0 d
Toxicity to daphnia and other aquatic invertebrates	mortality LOEC - Daphnia (water flea) - 0.17 mg/l - 24 h
	mortality NOEC - Daphnia (water flea) - 0.099 mg/l - 24 h
Toxicity to algae	mortality EC50 - Skeletonema costatum - 7.94 mg/l - 10 d

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential

Bioaccumulation	Oncorhynchus kisutch - 2 Weeks - 150 µg/l
	Bioconcentration factor (BCF): 12

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Lead)
Reportable Quantity (RQ): 10 lbs
Poison Inhalation Hazard: No

IMDG
UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Lead)
Marine pollutant:yes

IATA
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Lead)

Further information

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Lead	7439-92-1	2015-11-23

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Lead	7439-92-1	2015-11-23

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Lead	7439-92-1	2015-11-23

	CAS-No.	Revision Date
Lead	7439-92-1	2015-11-23

New Jersey Right To Know Components

	CAS-No.	Revision Date
Lead	7439-92-1	2015-11-23

California Prop. 65 Components

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause cancer. Lead	7439-92-1	2009-02-01
WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. Lead	7439-92-1	2009-02-01

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
H302	Harmful if swallowed.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.

Further information
Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information
Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.11 Revision Date: 10/12/2018 Print Date: 06/28/2019

SAFETY DATA SHEET

Version 6.0
Revision Date 01/31/2017
Print Date 06/28/2019

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Magnesium

Product Number : 200905
Brand : Sigma-Aldrich
Index-No. : 012-002-00-9

CAS-No. : 7439-95-4

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 Spruce Street
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable solids (Category 1), H228
Self-heating substances and mixtures (Category 1), H251
Substances and mixtures, which in contact with water, emit flammable gases (Category 2), H261

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)
H228 Flammable solid.
H251 Self-heating: may catch fire.
H261 In contact with water releases flammable gases.

Precautionary statement(s)
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P223 Keep away from any possible contact with water, because of violent

	reaction and possible flash fire.
P231 + P232	Handle under inert gas. Protect from moisture.
P235 + P410	Keep cool. Protect from sunlight.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P280	Wear protective gloves/ eye protection/ face protection.
P335 + P334	Brush off loose particles from skin. Immerse in cool water/ wrap in wet bandages.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P402 + P404	Store in a dry place. Store in a closed container.
P407	Maintain air gap between stacks/ pallets.
P413	Store bulk masses greater than .? kg/ .? lbs at temperatures not exceeding .? °C/ .? °F.
P420	Store away from other materials.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Combustible dust

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	Mg
Molecular weight	:	24.31 g/mol
CAS-No.	:	7439-95-4
EC-No.	:	231-104-6
Index-No.	:	012-002-00-9

Hazardous components

Component	Classification	Concentration
Magnesium (non pyrophoric)		
	Flam. Sol. 1; Self-heat. 1; Water-react. 2; H228, H251, H261	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Move out of dangerous area.Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Dry powder

5.2 Special hazards arising from the substance or mixture
Magnesium oxide

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Do not flush with water. Keep in suitable, closed containers for disposal. Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combu formation should be taken into consideration before additional processing
Provide appropriate exhaust ventilation at places where dust is formed.Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Never allow product to get in contact with water during storage.

Store under inert gas. Air and moisture sensitive.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters
Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls
Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industria situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use (EN 143) respirator cartridges as a backup to engineering controls. If th full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: Turnings
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 648 °C (1198 °F) - lit.
f)	Initial boiling point and boiling range	1,090 °C (1,994 °F) - lit.
g)	Flash point	()No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	May form combustible dust concentrations in air.
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	1 hPa at 621 °C (1150 °F)
l)	Vapour density	No data available
m)	Relative density	1.74 g/mL at 25 °C (77 °F)
n)	Water solubility	No data available

o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	The substance or mixture is classified as self heating with the category 1.
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Reacts violently with water.

10.4 Conditions to avoid
Heat, flames and sparks. Exposure to moisture

10.5 Incompatible materials
Acids, Strong oxidizing agents, Acid chlorides, Halogens

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Magnesium oxide
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data availableMagnesium (non pyrophoric)
Inhalation: No data available(Magnesium (non pyrophoric))
Dermal: No data available(Magnesium (non pyrophoric))
No data available(Magnesium (non pyrophoric))

Skin corrosion/irritation
No data available(Magnesium (non pyrophoric))

Serious eye damage/eye irritation
No data available(Magnesium (non pyrophoric))

Respiratory or skin sensitisation
No data available(Magnesium (non pyrophoric))

Germ cell mutagenicity

No data available(Magnesium (non pyrophoric))

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available(Magnesium (non pyrophoric))

No data available(Magnesium (non pyrophoric))

Specific target organ toxicity - single exposure
No data available(Magnesium (non pyrophoric))

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available(Magnesium (non pyrophoric))

Additional Information
RTECS: Not available

burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, chills, Fever, fatigue, muscle pain, joint pain, rash, Anorexia.(Magnesium (non pyrophoric))
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.(Magnesium (non pyrophoric))

Liver - Irregularities - Based on Human Evidence
Liver - Irregularities - Based on Human Evidence(Magnesium (non pyrophoric))

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available(Magnesium (non pyrophoric))

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1869 Class: 4.1 Packing group: III
Proper shipping name: Magnesium
Poison Inhalation Hazard: No

IMDG
UN number: 1869 Class: 4.1 Packing group: III EMS-No: F-G, S-G
Proper shipping name: MAGNESIUM

IATA
UN number: 1869 Class: 4.1 Packing group: III
Proper shipping name: Magnesium

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Fire Hazard, Reactivity Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Magnesium (non pyrophoric)	7439-95-4	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Magnesium (non pyrophoric)	7439-95-4	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
Magnesium (non pyrophoric)	7439-95-4	1993-04-24

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H228	Flammable solid.
H251	Self-heating: may catch fire.
H261	In contact with water releases flammable gases.

HMIS Rating

Health hazard:	0
Chronic Health Hazard:	*
Flammability:	3
Physical Hazard	2

NFPA Rating

Health hazard:	0
Fire Hazard:	0
Reactivity Hazard:	2

Further information

Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956
Version: 6.0 Revision Date: 01/31/2017 Print Date: 06/28/2019

SAFETY DATA SHEET

Version 6.1
Revision Date 05/28/2017
Print Date 06/28/2019

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Manganese

Product Number : 463728
Brand : Aldrich

CAS-No. : 7439-96-5

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 Spruce Street
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Substances and mixtures, which in contact with water, emit flammable gases (Category 1), H260
Acute aquatic toxicity (Category 3), H402
Chronic aquatic toxicity (Category 3), H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)
H260 In contact with water releases flammable gases which may ignite spontaneously.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s)
P223 Keep away from any possible contact with water, because of violent reaction and possible flash fire.
P231 + P232 Handle under inert gas. Protect from moisture.

P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P335 + P334	Brush off loose particles from skin. Immerse in cool water/ wrap in wet bandages.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P402 + P404	Store in a dry place. Store in a closed container.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	Mn
Molecular weight	:	54.94 g/mol
CAS-No.	:	7439-96-5
EC-No.	:	231-105-1

Hazardous components

Component	Classification	Concentration
Manganese		
	Water-react. 1; Aquatic Acute 3; Aquatic Chronic 3; H260, H412	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Dry powder Carbon dioxide (CO2)

Unsuitable extinguishing media
Water

5.2 Special hazards arising from the substance or mixture
Manganese/manganese oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Do not flush with water. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.Keep away from sources of ignition - No smoking.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Never allow product to get in contact with water during storage.

Moisture sensitive. Keep in a dry place.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters
Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Manganese	7439-96-5	TWA	0.200000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Central Nervous System impairment Adopted values or notations enclosed are those for which changes are proposed in the NIC See Notice of Intended Changes (NIC)		
		C	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Ceiling limit is to be determined from breathing-zone air samples.		
		C	5 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Ceiling limit is to be determined from breathing-zone air samples.		

		TWA	1.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	3.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	1.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	3.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		C	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Ceiling limit is to be determined from breathing-zone air samples.		
		TWA	1.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	3.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	0.200000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Adopted values or notations enclosed are those for which changes are proposed in the NIC See Notice of Intended Changes (NIC) varies		
		TWA	0.100000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment 2015 Adoption varies		
		TWA	0.020000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment 2015 Adoption varies		
		TWA	1 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	3 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	0.1 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Not classifiable as a human carcinogen varies		
		TWA	0.02 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Not classifiable as a human carcinogen varies		

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection
Impervious clothing, Flame retardant protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use (EN 143) respirator cartridges as a backup to engineering controls. If th full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder Colour: grey
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 1,244 °C (2,271 °F) - lit.
f)	Initial boiling point and boiling range	1,962 °C (3,564 °F) - lit.
g)	Flash point	()Not applicable
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	7.3 g/mL at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Reacts violently with water.

10.4 Conditions to avoid
Exposure to moisture

10.5 Incompatible materials
acids, Halogens, Bases, Phosphorus, Sulphur oxides, Peroxides

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Manganese/manganese oxides
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 9,000 mg/kg(Manganese)
Inhalation: No data available(Manganese)
Dermal: No data available(Manganese)
No data available(Manganese)

Skin corrosion/irritation
Skin - Rabbit(Manganese)
Result: Mild skin irritation - 24 h

Serious eye damage/eye irritation
Eyes - Rabbit(Manganese)
Result: Mild eye irritation - 24 h

Respiratory or skin sensitisation
No data available(Manganese)

Germ cell mutagenicity

No data available(Manganese)

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available(Manganese)

May cause reproductive disorders.(Manganese)

Specific target organ toxicity - single exposure
No data available(Manganese)

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available(Manganese)

Additional Information
RTECS: OO9275000

Men exposed to manganese dusts showed a decrease in fertility. Chronic man system. Early symptoms include languor, sleepiness and weakness in the le disturbances such as uncontrollable laughter and a spastic gait with tend cases. High incidence of pneumonia has been found in workers exposed to t(Manganese)

Stomach - Irregularities - Based on Human Evidence
Stomach - Irregularities - Based on Human Evidence(Manganese)

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 40 mg/l - 48 h(Manganese)

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available(Manganese)

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life.

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3208 Class: 4.3 Packing group: I
Proper shipping name: Metallic substance, water-reactive, n.o.s. (Manganese)
Poison Inhalation Hazard: No

IMDG
UN number: 3208 Class: 4.3 Packing group: I EMS-No: F-G, S-N
Proper shipping name: METALLIC SUBSTANCE, WATER-REACTIVE, N.O.S. (Manganese)

IATA
UN number: 3208 Class: 4.3 Packing group: I
Proper shipping name: Metallic substance, water-reactive, n.o.s. (Manganese)
IATA Passenger: Not permitted for transport

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

	CAS-No.	Revision Date
Manganese	7439-96-5	2007-07-01

SARA 311/312 Hazards
Reactivity Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Manganese	7439-96-5	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Manganese	7439-96-5	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Manganese	7439-96-5	2007-07-01

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H260	In contact with water releases flammable gases which may ignite spontaneously.
H402	Harmful to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	0
Chronic Health Hazard:	*
Flammability:	3
Physical Hazard	2

NFPA Rating

Health hazard:	0
Fire Hazard:	0
Reactivity Hazard:	2
Special hazard.I:	W

Further information
Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling

or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956
Version: 6.1 Revision Date: 05/28/2017 Print Date: 06/28/2019

SAFETY DATA SHEET

Version 3.15
Revision Date 03/05/2018
Print Date 06/28/2019

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Mercury

Product Number : 215457
Brand : Sigma-Aldrich
Index-No. : 080-001-00-0

CAS-No. : 7439-97-6

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Inhalation (Category 2), H330
Reproductive toxicity (Category 1B), H360
Specific target organ toxicity - repeated exposure (Category 1), H372
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)
H330 Fatal if inhaled.
H360 May damage fertility or the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P284	Wear respiratory protection.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	Hg
Molecular weight	:	200.59 g/mol
CAS-No.	:	7439-97-6
EC-No.	:	231-106-7
Index-No.	:	080-001-00-0

Hazardous components

Component	Classification	Concentration
Mercury		
	Acute Tox. 2; Repr. 1B; STOT RE 1; Aquatic Acute 1; Aquatic Chronic 1; H330, H360, H372, H410	90 - 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. In some instances, a mercury spill kit may be used. Please consult with your site EHS representative to determine the most appropriate clean up method.Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Store under inert gas.
Storage class (TRGS 510): 6.1B: Non-combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Mercury	7439-97-6	C	0.1 mg/m3	USA. NIOSH Recommended Exposure Limits
	Remarks	Potential for dermal absorption		
		CEIL	1.0mg/10m3	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		TWA	0.05 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		Skin notation		

		TWA	0.025 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Kidney damage Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen Danger of cutaneous absorption		
		TWA	0.05 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential for dermal absorption		

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid Colour: silver, white

b)	Odour	odourless
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: -38.87 °C (-37.97 °F) - lit.
f)	Initial boiling point and boiling range	356.6 °C (673.9 °F) - lit.
g)	Flash point	Not applicable
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	< 0.01 hPa (< 0.01 mmHg) at 20 °C (68 °F) 1 hPa (1 mmHg) at 126 °C (259 °F)
l)	Vapour density	6.93 - (Air = 1.0)
m)	Relative density	13.55 g/cm3 at 25 °C (77 °F)
n)	Water solubility	0.00006 g/l at 25 °C (77 °F)
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

Relative vapour density	6.93 - (Air = 1.0)

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents, Ammonia, Azides, Nitrates, Chlorates, Copper

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Mercury/mercury oxides.
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

LC50 Inhalation - Rat - male - 2 h - < 27 mg/m3

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
Presumed human reproductive toxicant

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard
No data available

Additional Information
RTECS: OV4550000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence
Stomach - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	mortality LC50 - Cyprinus carpio (Carp) - 0.160 mg/l - 96 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential

Bioaccumulation	Carassius auratus (goldfish) - 1,789 d - 0.25 µg/l

Bioconcentration factor (BCF): 155,986

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 2809 Class: 8 (6.1) Packing group: III
Proper shipping name: A. W. Mercury
Reportable Quantity (RQ): 1 lbs
Poison Inhalation Hazard: No

IMDG

IATA
UN number: 2809 Class: 8 (6.1) Packing group: III
Proper shipping name: Mercury

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Mercury	7439-97-6	2015-11-23

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Mercury	7439-97-6	2015-11-23

	CAS-No.	Revision Date
Mercury	7439-97-6	2015-11-23

New Jersey Right To Know Components

	CAS-No.	Revision Date
Mercury	7439-97-6	2015-11-23

California Prop. 65 Components

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. Mercury	CAS-No. 7439-97-6	Revision Date 2013-12-20

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
H330	Fatal if inhaled.
H360	May damage fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
Repr.	Reproductive toxicity

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0

Further information

Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 3.15 Revision Date: 03/05/2018 Print Date: 06/28/2019

SAFETY DATA SHEET

Version 6.1
Revision Date 07/17/2018
Print Date 06/22/2019

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : <I>m</>-Xylene

Product Number : 134902
Brand : Aldrich
Index-No. : 601-022-00-9

CAS-No. : 108-38-3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 Spruce Street
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable liquids (Category 3), H226

Acute toxicity, Dermal (Category 4), H312

Skin irritation (Category 2), H315

Eye irritation (Category 2A), H319

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

Aspiration hazard (Category 1), H304

Acute aquatic toxicity (Category 3), H402

Chronic aquatic toxicity (Category 3), H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word	Danger

Hazard statement(s)

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection/ face protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P312	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331	Do NOT induce vomiting.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	1,3-Dimethylbenzene
Formula	:	C_8H_{10}
Molecular weight	:	106.17 g/mol
CAS-No.	:	108-38-3
EC-No.	:	203-576-3
Index-No.	:	601-022-00-9

Hazardous components

Component	Classification	Concentration

m-Xylene		
	Flam. Liq. 3; Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; Asp. Tox. 1; Aquatic Acute 3; Aquatic Chronic 3; H226, H304, H312, H315, H319, H335, H412	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Storage class (TRGS 510): 3: Flammable liquids

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters
Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
m-Xylene	108-38-3	TWA	100 ppm 435 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	150 ppm 655 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	100 ppm 435 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
	Remarks	The value in mg/m3 is approximate.		
		TWA	100 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen		
		STEL	150 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen		

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
m-Xylene	108-38-3	Methylhippuric acids	1.5g/g creatinine	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift (As soon as possible after exposure ceases)			

8.2 Exposure controls
Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.4 mm
Break through time: 30 min
Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: -48 °C (-54 °F) - lit.
f)	Initial boiling point and boiling range	138 - 139 °C (280 - 282 °F) - lit.
g)	Flash point	25.0 °C (77.0 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower	Upper explosion limit: 7 %(V)

	flammability or explosive limits	Lower explosion limit: 1.1 %(V)
k)	Vapour pressure	8.0 hPa at 20.0 °C (68.0 °F) 21.3 hPa at 37.7 °C(99.9 °F)
l)	Vapour density	No data available
m)	Relative density	0.868 g/cm3 at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	log Pow: 3.2 at 20 °C (68 °F)
p)	Auto-ignition temperature	465.0 °C (869.0 °F) 528.0 °C (982.4 °F)
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Vapours may form explosive mixture with air.

10.4 Conditions to avoid
Heat, flames and sparks.

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - male - 6,602 mg/kg
(OECD Test Guideline 401)
LC50 Inhalation - Rat - male - 4 h - 6700 ppm
(Directive 67/548/EEC, Annex V, B.2.)
LD50 Dermal - Rabbit - male - 12,126 mg/kg
No data available

Skin corrosion/irritation
Skin - Rabbit
Result: Skin irritation - 24 h

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Severe eye irritation - 24 h

Respiratory or skin sensitisation
- Mouse
Result: Does not cause skin sensitisation.
(OECD Test Guideline 429)

Germ cell mutagenicity
No data available

Carcinogenicity
This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (m-Xylene)

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.

Specific target organ toxicity - single exposure
Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
May be fatal if swallowed and enters airways.

Additional Information
RTECS: ZE2275000

Liver injury may occur., Kidney injury may occur., Blood disorders, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, narcosis, Lung irritation, chest pain, pulmonary edema, Central nervous system depression, Dermatitis, Gastrointestinal disturbance

Kidney -

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	mortality LC50 - Fish - 11.23 mg/l - 96 h(m-Xylene) (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	Remarks: No data available(m-Xylene)
Toxicity to algae	Remarks: No data available(m-Xylene)

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

12.4 Mobility in soil
No data available(m-Xylene)

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life with long lasting effects.

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1307 Class: 3 Packing group: III
Proper shipping name: Xylenes
Reportable Quantity (RQ) : 1000 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 1307 Class: 3 Packing group: III EMS-No: F-E, S-D
Proper shipping name: XYLENES

IATA
UN number: 1307 Class: 3 Packing group: III
Proper shipping name: Xylenes

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
m-Xylene	108-38-3	2007-07-01

SARA 311/312 Hazards
Fire Hazard, Acute Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
m-Xylene	108-38-3	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
m-Xylene	108-38-3	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
m-Xylene	108-38-3	2007-07-01

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H402	Harmful to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

Further information

Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956
Version: 6.1 Revision Date: 07/17/2018 Print Date: 06/22/2019

SAFETY DATA SHEET

Version 5.10
Revision Date 06/21/2018
Print Date 11/10/2018

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Naphthalene

Product Number : 84679
Brand : Sigma-Aldrich
Index-No. : 601-052-00-2

CAS-No. : 91-20-3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable solids (Category 2), H228
Acute toxicity, Oral (Category 4), H302
Carcinogenicity (Category 2), H351
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Warning

Hazard statement(s)

H228	Flammable solid.
H302	Harmful if swallowed.
H351	Suspected of causing cancer.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	$C_{10}H_8$
Molecular weight	:	128.17 g/mol
CAS-No.	:	91-20-3
EC-No.	:	202-049-5
Index-No.	:	601-052-00-2
Registration number	:	01-2119561346-37-XXXX

Hazardous components

Component	Classification	Concentration
Naphthalene		
	Flam. Sol. 2; Acute Tox. 4; Carc. 2; Aquatic Acute 1; Aquatic Chronic 1; H228, H302, H351, H410	90 - 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal. Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): 4.1B: Flammable solid hazardous materials

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Naphthalene	91-20-3	TWA	10 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Hemolytic anemia Upper Respiratory Tract irritation Cataract Confirmed animal carcinogen with unknown relevance to humans Danger of cutaneous absorption		

		TWA	10 ppm 50 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	15 ppm 75 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	10 ppm 50 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		The value in mg/m3 is approximate.		
		PEL	0.1 ppm 0.5 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		Skin		

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
	-	1-Naphthol + 2-Naphthol			ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift (As soon as possible after exposure ceases)			

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the

sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: flakes, granules Colour: white
b)	Odour	aromatic
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 79.5 - 81.0 °C (175.1 - 177.8 °F)
f)	Initial boiling point and boiling range	218 °C (424 °F) - lit.
g)	Flash point	80.0 °C (176.0 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 5.9 %(V) Lower explosion limit: 0.9 %(V)
k)	Vapour pressure	1.3 hPa (1.0 mmHg) at 53.0 °C (127.4 °F) 0.04 hPa (0.03 mmHg) at 25.0 °C (77.0 °F)
l)	Vapour density	No data available
m)	Relative density	1.085 g/cm3 at 24.7 °C (76.5 °F)
n)	Water solubility	0.0308 g/l at 25 °C (77 °F) - OECD Test Guideline 105 - slightly soluble
o)	Partition coefficient: n-octanol/water	log Pow: 3.4 at 25 °C (77 °F)
p)	Auto-ignition temperature	526.0 °C (978.8 °F)
q)	Decomposition temperature	No data available
r)	Viscosity	1.05 mm2/s at 81.5 °C (178.7 °F) -
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

Surface tension	31.8 mN/m at 100.0 °C (212.0 °F)

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
Heat, flames and sparks.

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 490.0 mg/kg

LC50 Inhalation - Rat - male and female - 4 h - > 0.4 mg/l
(OECD Test Guideline 403)

LD50 Dermal - Rabbit - 20,000 mg/kg

No data available

Skin corrosion/irritation
Skin - Rabbit
Result: No skin irritation - 24 h

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Mild eye irritation

Respiratory or skin sensitisation
Maximisation Test - Guinea pig
Result: Does not cause skin sensitisation.
(OECD Test Guideline 406)

Germ cell mutagenicity
Ames test
S. typhimurium
Result: negative

Rat - male
Result: negative

Carcinogenicity

Carcinogenicity - Rat - male and female - inhalation (vapour)
Tumorigenic:Tumors at site or application.

IARC:	2B - Group 2B: Possibly carcinogenic to humans (Naphthalene)
NTP:	RAHC - Reasonably anticipated to be a human carcinogen (Naphthalene)
OSHA:	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information

Repeated dose toxicity	Rat - male and female - Oral - NOAEL : 100 mg/kg - LOAEL : 400 mg/kg - OECD Test Guideline 408

RTECS: QJ0525000

Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer., Naphthalene is retinotoxic and systemic absorption of its vapors above 15ppm, may result in:, cataracts, optic neuritis, corneal injury, Eye irritation, Ingestion may provoke the following symptoms:, hemolytic anemia, hemoglobinuria, Nausea, Headache, Vomiting, Gastrointestinal disturbance, Convulsions, anemia, Kidney injury may occur., Seizures., Coma.

Heart -

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	flow-through test LC50 - Pimephales promelas (fathead minnow) - 7.9 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - 2.16 mg/l - 48 h

12.2 Persistence and degradability

Biodegradability	aerobic - Exposure time 28 d Result: 2 % - Not readily biodegradable.

12.3 Bioaccumulative potential

Bioaccumulation	Fish Bioconcentration factor (BCF): 427 - 1,158

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN number: 1334 Class: 4.1 Packing group: III
Proper shipping name: Naphthalene, crude
Reportable Quantity (RQ): 100 lbsMarine pollutant:yes
Poison Inhalation Hazard: No

IMDG

UN number: 1334 Class: 4.1 Packing group: III EMS-No: F-A, S-G
Proper shipping name: NAPHTHALENE, CRUDE
Marine pollutant:yes Marine pollutant: yes

IATA
UN number: 1334 Class: 4.1 Packing group: III
Proper shipping name: Naphthalene, crude

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Naphthalene	91-20-3	2007-03-01

SARA 311/312 Hazards
Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Naphthalene	91-20-3	2007-03-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Naphthalene	91-20-3	2007-03-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Naphthalene	91-20-3	2007-03-01

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer.	CAS-No.	Revision Date
Naphthalene	91-20-3	2007-09-28

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
Flam. Sol.	Flammable solids
H228	Flammable solid.
H302	Harmful if swallowed.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Further information
Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information
Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.10 Revision Date: 06/21/2018 Print Date: 11/10/2018

SAFETY DATA SHEET

Version 3.15
Revision Date 03/05/2018
Print Date 06/28/2019

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Mercury

Product Number : 215457
Brand : Sigma-Aldrich
Index-No. : 080-001-00-0

CAS-No. : 7439-97-6

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Inhalation (Category 2), H330
Reproductive toxicity (Category 1B), H360
Specific target organ toxicity - repeated exposure (Category 1), H372
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)
H330 Fatal if inhaled.
H360 May damage fertility or the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P284	Wear respiratory protection.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	Hg
Molecular weight	:	200.59 g/mol
CAS-No.	:	7439-97-6
EC-No.	:	231-106-7
Index-No.	:	080-001-00-0

Hazardous components

Component	Classification	Concentration
Mercury		
	Acute Tox. 2; Repr. 1B; STOT RE 1; Aquatic Acute 1; Aquatic Chronic 1; H330, H360, H372, H410	90 - 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. In some instances, a mercury spill kit may be used. Please consult with your site EHS representative to determine the most appropriate clean up method.Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Store under inert gas.
Storage class (TRGS 510): 6.1B: Non-combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Mercury	7439-97-6	C	0.1 mg/m3	USA. NIOSH Recommended Exposure Limits
	Remarks	Potential for dermal absorption		
		CEIL	1.0mg/10m3	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		TWA	0.05 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		Skin notation		

		TWA	0.025 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Kidney damage Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen Danger of cutaneous absorption		
		TWA	0.05 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential for dermal absorption		

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid Colour: silver, white

b)	Odour	odourless
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: -38.87 °C (-37.97 °F) - lit.
f)	Initial boiling point and boiling range	356.6 °C (673.9 °F) - lit.
g)	Flash point	Not applicable
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	< 0.01 hPa (< 0.01 mmHg) at 20 °C (68 °F) 1 hPa (1 mmHg) at 126 °C (259 °F)
l)	Vapour density	6.93 - (Air = 1.0)
m)	Relative density	13.55 g/cm3 at 25 °C (77 °F)
n)	Water solubility	0.00006 g/l at 25 °C (77 °F)
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

Relative vapour density	6.93 - (Air = 1.0)

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents, Ammonia, Azides, Nitrates, Chlorates, Copper

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Mercury/mercury oxides.
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

LC50 Inhalation - Rat - male - 2 h - < 27 mg/m3

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
Presumed human reproductive toxicant

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard
No data available

Additional Information
RTECS: OV4550000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence
Stomach - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	mortality LC50 - Cyprinus carpio (Carp) - 0.160 mg/l - 96 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential

Bioaccumulation	Carassius auratus (goldfish) - 1,789 d - 0.25 µg/l

Bioconcentration factor (BCF): 155,986

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 2809 Class: 8 (6.1) Packing group: III
Proper shipping name: A. W. Mercury
Reportable Quantity (RQ): 1 lbs
Poison Inhalation Hazard: No

IMDG

IATA
UN number: 2809 Class: 8 (6.1) Packing group: III
Proper shipping name: Mercury

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Mercury	7439-97-6	2015-11-23

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Mercury	7439-97-6	2015-11-23

	CAS-No.	Revision Date
Mercury	7439-97-6	2015-11-23

New Jersey Right To Know Components

	CAS-No.	Revision Date
Mercury	7439-97-6	2015-11-23

California Prop. 65 Components

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. Mercury	CAS-No. 7439-97-6	Revision Date 2013-12-20

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
H330	Fatal if inhaled.
H360	May damage fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
Repr.	Reproductive toxicity

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0

Further information

Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 3.15 Revision Date: 03/05/2018 Print Date: 06/28/2019

SAFETY DATA SHEET

Revision Date 24-Dec-2021 **Revision Number** 4

1. Identification

Product Name **n-Butylbenzene**

Cat No. : **AC107850000; AC107850010; AC107850050; AC107850500; AC107852500**

CAS No 104-51-8
Synonyms 1-Phenylbutane

Recommended Use Laboratory chemicals.
Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company
Fisher Scientific Company
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 3

Label Elements

Signal Word
Warning

Hazard Statements
Flammable liquid and vapor

Precautionary Statements
Prevention
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Wear protective gloves/protective clothing/eye protection/face protection
Skin
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
Fire
In case of fire: Use CO2, dry chemical, or foam for extinction
Storage
Store in a well-ventilated place. Keep cool
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
None identified

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Butyl benzene	104-51-8	> 99

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention.

Inhalation Remove from exposure, lie down. Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

Ingestion Do NOT induce vomiting. Clean mouth with water. Aspiration hazard. Get medical attention.

Most important symptoms and effects Difficulty in breathing. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Water spray. Carbon dioxide (CO_2). Dry chemical. Water mist may be used to cool closed containers. Chemical foam.

Unsuitable Extinguishing Media No information available

Flash Point	59 °C / 138.2 °F
Method -	No information available
Autoignition Temperature	412 °C / 773.6 °F

Explosion Limits

Upper	5.80%
Lower	.80%
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical
Combustible material. Flammable. Vapors may travel to source of ignition and flash back. Containers may explode when heated.

Hazardous Combustion Products
Carbon monoxide (CO). Carbon dioxide (CO_2).
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
0	2	0	N/A

6. Accidental release measures

Personal Precautions	Ensure adequate ventilation. Use personal protective equipment as required.
Environmental Precautions	See Section 12 for additional Ecological Information.
Methods for Containment and Clean Up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

7. Handling and storage

Handling	Avoid contact with skin and eyes. Do not breathe dust. Do not breathe mist/vapors/spray. Use spark-proof tools and explosion-proof equipment. Use only non-sparking tools.
Storage.	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from heat, sparks and flame. Incompatible Materials. Strong oxidizing agents. oxygen.

8. Exposure controls / personal protection

Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.
Engineering Measures	Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard

EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Liquid
Appearance	Colorless
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	-88 °C / -126.4 °F
Boiling Point/Range	183 °C / 361.4 °F @ 760 mmHg
Flash Point	59 °C / 138.2 °F
Evaporation Rate	No information available
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	5.80%
Lower	.80%
Vapor Pressure	1.33 hPa @ 23 °C
Vapor Density	4.6
Specific Gravity	0.860
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	412 °C / 773.6 °F
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C10 H14
Molecular Weight	134.22

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Keep away from open flames, hot surfaces and sources of ignition. Incompatible products.

Incompatible Materials Strong oxidizing agents, oxygen

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO_2)

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information No acute toxicity information is available for this product

Component Information

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Butyl benzene	104-51-8	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known
STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

Endocrine Disruptor Information

Component	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Butyl benzene	Group III Chemical	Not applicable	Not applicable

Other Adverse Effects The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity
Do not empty into drains.

Persistence and Degradability No information available

Bioaccumulation/ Accumulation No information available.

Mobility .

Component	log Pow
Butyl benzene	4.6

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT
UN-No UN2709
Hazard Class 3
Packing Group III

TDG
UN-No UN2709
Hazard Class 3
Packing Group III

IATA
UN-No UN2709
Proper Shipping Name BUTYLBENZENES
Hazard Class 3

Packing Group III

IMDG/IMO

UN-No UN2709
Proper Shipping Name BUTYLBENZENES
Hazard Class 3
Packing Group III

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Butyl benzene	104-51-8	X	ACTIVE	-

Legend:
TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)
X - Listed
'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories
Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Butyl benzene	104-51-8	X	-	203-209-7	X	X	X	X	X	-

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

OSHA - Occupational Safety and Health Administration Not applicable

CERCLA Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Butyl benzene	X	X	X	-	-

U.S. Department of Transportation
Reportable Quantity (RQ): N
DOT Marine Pollutant Y
DOT Severe Marine Pollutant N

U.S. Department of Homeland This product does not contain any DHS chemicals.

Security

Other International Regulations

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Butyl benzene	104-51-8	Not applicable	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Butyl benzene	104-51-8	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information

Prepared By Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Revision Date 24-Dec-2021
Print Date 24-Dec-2021
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS

SAFETY DATA SHEET

Creation Date 26-Sep-2009 **Revision Date** 29-Mar-2024 **Revision Number** 3

1. Identification

Product Name **n-Propylbenzene**

Cat No. : **B21468**

CAS No 103-65-1
Synonyms 1-Phenyl Propane.

Recommended Use Laboratory chemicals.
Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company
Thermo Fisher Scientific Chemicals, Inc.
30 Bond Street
Ward Hill, MA 01835-8099
Tel: 800-343-0660
Fax: 800-322-4757

Emergency Telephone Number
For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No. **US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 3
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system.	
Aspiration Toxicity	Category 1

Label Elements

Signal Word
Danger

Hazard Statements
Flammable liquid and vapor
May be fatal if swallowed and enters airways
May cause respiratory irritation

Precautionary Statements
Prevention
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Wear protective gloves/protective clothing/eye protection/face protection
Keep cool
Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor/physician if you feel unwell
Skin
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
Ingestion
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Do NOT induce vomiting
Fire
In case of fire: Use CO2, dry chemical, or foam for extinction
Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Toxic to aquatic life with long lasting effects

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Propyl benzene	103-65-1	>95

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention. Risk of serious damage to the lungs (by aspiration).

Ingestion Do NOT induce vomiting. Call a physician or poison control center immediately. If vomiting

occurs naturally, have victim lean forward.

Most important symptoms and effects Difficulty in breathing. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Water spray. Carbon dioxide (CO_2). Dry chemical. Water mist may be used to cool closed containers. Chemical foam. Water mist may be used to cool closed containers.

Unsuitable Extinguishing Media No information available

Flash Point 47 °C / 116.6 °F

Method - No information available

Autoignition Temperature 450 °C / 842 °F

Explosion Limits

Upper	6.00%
Lower	.80%
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical
Flammable. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Vapors may form explosive mixtures with air.

Hazardous Combustion Products
Carbon monoxide (CO). Carbon dioxide (CO_2).
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
3	2	0	N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required. Remove all sources of ignition. Take precautionary measures against static discharges.

Environmental Precautions Do not flush into surface water or sanitary sewer system.

Methods for Containment and Clean Up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

7. Handling and storage

Handling Ensure adequate ventilation. Wear personal protective equipment/face protection. Avoid contact with skin and eyes. Do not breathe mist/vapors/spray. Use spark-proof tools and explosion-proof equipment. Use only non-sparking tools. Wash hands before breaks and immediately after handling the product. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges.

Storage. Keep away from heat, sparks and flame. Flammables area. Keep container tightly closed in a dry and well-ventilated place. Incompatible Materials. Strong oxidizing agents.

8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.

Engineering Measures Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting equipment.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection No protective equipment is needed under normal use conditions.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Liquid
Appearance	Light yellow
Odor	aromatic
Odor Threshold	No information available
pH	No information available
Melting Point/Range	-99 °C / -146.2 °F
Boiling Point/Range	158 °C / 316.4 °F @ 760 mmHg
Flash Point	47 °C / 116.6 °F
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	6.00%
Lower	.80%
Vapor Pressure	No information available
Vapor Density	4.1
Specific Gravity	0.860
Solubility	Insoluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	450 °C / 842 °F
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C9 H12
Molecular Weight	120.19

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability No information available.

Conditions to Avoid Keep away from open flames, hot surfaces and sources of ignition. Incompatible products.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO_2)

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information
Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Propyl benzene	LD50 = 6040 mg/kg (Rat)	Not listed	LC50 = 65000 ppm (Rat) 2 h

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation May cause irritation of respiratory tract

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Propyl benzene	103-65-1	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure Respiratory system
STOT - repeated exposure None known

Aspiration hazard Category 1

Symptoms / effects,both acute and delayed Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Persistence and Degradability Persistence is unlikely

Bioaccumulation/ Accumulation No information available.

Mobility Is not likely mobile in the environment due its low water solubility.

Component	log Pow
Propyl benzene	3.68

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT

UN-No UN2364
Proper Shipping Name N-PROPYL BENZENE
Hazard Class 3
Packing Group III

TDG

UN-No UN2364
Proper Shipping Name N-PROPYL BENZENE
Hazard Class 3
Packing Group III

IATA

UN-No UN2364
Proper Shipping Name n-PROPYLBENZENE
Hazard Class 3
Packing Group III

IMDG/IMO

UN-No UN2364
Proper Shipping Name PROPYLBENZENE
Hazard Class 3
Packing Group III

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Propyl benzene	103-65-1	X	ACTIVE	-

Legend:
TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)
X - Listed
'-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT) Not applicable

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Propyl benzene	103-65-1	X	-	203-132-9	X	X	X	X	X	KE-29781

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories
Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

OSHA - Occupational Safety and Health Administration Not applicable

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65 This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Propyl benzene	X	X	X	-	-

U.S. Department of Transportation
Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH Not applicable

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Propyl benzene	103-65-1	-	-	-

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Propyl benzene	103-65-1	Listed	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)?
Not applicable

Other International Regulations

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Propyl benzene	103-65-1	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information

Prepared By
Health, Safety and Environmental Department
Email: chem.techinfo@thermofisher.com
www.thermofisher.com

Creation Date 26-Sep-2009
Revision Date 29-Mar-2024
Print Date 29-Mar-2024
Revision Summary New emergency telephone response service provider.

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS

SAFETY DATA SHEET

Version 6.1
Revision Date 08/07/2018
Print Date 06/29/2019

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : <I>o</>-Xylene

Product Number : 95660
Brand : Sigma-Aldrich
Index-No. : 601-022-00-9

CAS-No. : 95-47-6

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 Spruce Street
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable liquids (Category 3), H226

Acute toxicity, Inhalation (Category 4), H332

Acute toxicity, Dermal (Category 4), H312

Skin irritation (Category 2), H315

Eye irritation (Category 2A), H319

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

Aspiration hazard (Category 1), H304

Acute aquatic toxicity (Category 3), H402

Chronic aquatic toxicity (Category 3), H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word	Danger

Hazard statement(s)

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312 + H332	Harmful in contact with skin or if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331	Do NOT induce vomiting.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	1,2-Dimethylbenzene
Formula	:	C_8H_{10}
Molecular weight	:	106.17 g/mol
CAS-No.	:	95-47-6
EC-No.	:	202-422-2
Index-No.	:	601-022-00-9

Hazardous components

Component	Classification	Concentration
o-Xylene		
	Flam. Liq. 3; Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; Asp. Tox. 1; Aquatic Acute 3; Aquatic Chronic 3; H226, H304, H312 + H332, H315, H319, H335, H412	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Storage class (TRGS 510): 3: Flammable liquids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
o-Xylene	95-47-6	TWA	100.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Eye & Upper Respiratory Tract irritation Central Nervous System impairment Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen		
		STEL	150.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Eye & Upper Respiratory Tract irritation Central Nervous System impairment Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen		
		TWA	100.000000 ppm 435.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	100.000000 ppm 435.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	150.000000 ppm 655.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	100.000000 ppm 435.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		The value in mg/m3 is approximate.		

		TWA	100.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen		
		STEL	150.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen		
		TWA	100 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen		
		STEL	150 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen		
		TWA	100 ppm 435 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		The value in mg/m3 is approximate.		

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
o-Xylene	95-47-6	Methylhippuric acids	1,500.0000 mg/g	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift (As soon as possible after exposure ceases)			
		Methylhippuric acids	1.5g/g creatinine	Urine	ACGIH - Biological Exposure Indices (BEI)
		End of shift (As soon as possible after exposure ceases)			

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.4 mm
Break through time: 30 min
Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: -26 - -23 °C (-15 - -9 °F) - lit.
f)	Initial boiling point and boiling range	143 - 145 °C (289 - 293 °F) - lit.
g)	Flash point	31.0 °C (87.8 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 6.7 %(V) Lower explosion limit: 0.9 %(V)
k)	Vapour pressure	21.3 hPa at 37.7 °C (99.9 °F)

l)	Vapour density	No data available
m)	Relative density	0.879 g/mL at 20 °C (68 °F)
n)	Water solubility	0.1705 g/l at 25 °C (77 °F) - partly soluble
o)	Partition coefficient: n-octanol/water	log Pow: 3.12 at 20 °C (68 °F)
p)	Auto-ignition temperature	464.0 °C (867.2 °F)
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

Surface tension	29.8 mN/m at 25.0 °C (77.0 °F)

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Vapours may form explosive mixture with air.

10.4 Conditions to avoid
Heat, flames and sparks.

10.5 Incompatible materials
Oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available
LC50 Inhalation - Rat - male - 6 h - 18,800 mg/m3
Dermal: No data available
LD50 Intraperitoneal - Mouse - 1,364 mg/kg

Skin corrosion/irritation
Skin - Rabbit
Result: Irritating to skin. - 24 h

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
- Mouse

Result: Does not cause skin sensitisation.
(OECD Test Guideline 429)

Germ cell mutagenicity
Ames test
Salmonella typhimurium
Result: negative

Carcinogenicity
This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
May be fatal if swallowed and enters airways.

Additional Information
RTECS: ZE2450000

narcosis, Lung irritation, chest pain, pulmonary edema, Central nervous system depression, Dermatitis, Gastrointestinal disturbance, Liver injury may occur., Kidney injury may occur., Blood disorders

Nerves. -

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Lepomis macrochirus (Bluegill) - 16.10 mg/l - 96 h(o-Xylene)

12.2 Persistence and degradability

Biodegradability	aerobic - Exposure time 28 d(o-Xylene) Result: 69.67 % - Not readily biodegradable. (OECD Test Guideline 301F) Remarks: The 10 day time window criterion is not fulfilled.

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available(o-Xylene)

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1307 Class: 3 Packing group: III
Proper shipping name: Xylenes
Reportable Quantity (RQ) : 1000 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 1307 Class: 3 Packing group: III EMS-No: F-E, S-D
Proper shipping name: XYLENES

IATA
UN number: 1307 Class: 3 Packing group: III
Proper shipping name: Xylenes

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
o-Xylene	95-47-6	2007-07-01

SARA 311/312 Hazards
Fire Hazard, Acute Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
o-Xylene	95-47-6	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
o-Xylene	95-47-6	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
o-Xylene	95-47-6	2007-07-01

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H312 + H332	Harmful in contact with skin or if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H402	Harmful to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

Further information

Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956
Version: 6.1 Revision Date: 08/07/2018 Print Date: 06/29/2019

SAFETY DATA SHEET

Version 3.4
Revision Date 06/27/2014
Print Date 06/28/2019

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Heptadecafluorooctanesulfonic acid solution

Product Number : 77283
Brand : Aldrich

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 4), H302
Acute toxicity, Inhalation (Category 3), H331
Skin corrosion (Category 1B), H314
Serious eye damage (Category 1), H318
Carcinogenicity (Category 2), H351
Reproductive toxicity (Category 1B), H360
Effects on or via lactation, H362
Specific target organ toxicity - repeated exposure (Category 1), H372
Acute aquatic toxicity (Category 2), H401
Chronic aquatic toxicity (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H331 Toxic if inhaled.
H351 Suspected of causing cancer.
H360 May damage fertility or the unborn child.
H362 May cause harm to breast-fed children.
H372 Causes damage to organs through prolonged or repeated exposure.

H411	Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P263	Avoid contact during pregnancy/ while nursing.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P330 + P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/ physician.
P321	Specific treatment (see supplemental first aid instructions on this label).
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Formula : $C_8HF_{17}O_3S$

Molecular Weight : 500.13 g/mol

Hazardous components

Component		Classification	Concentration
Heptadecafluorooctane-1-sulphonic acid			
CAS-No. EC-No. Index-No.	1763-23-1 217-179-8 607-624-00-8	Acute Tox. 4; Skin Corr. 1B; Eye Dam. 1; Carc. 2; Repr. 1B; Lact. ; STOT RE 1; Aquatic Acute 2; Aquatic Chronic 2; H302 + H332, H314, H351, H360, H362, H372, H411	30 - 60 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.Continue rinsing eyes during transport to hospital.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
no data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Sulphur oxides, Hydrogen fluoride

5.3 Advice for firefighters
Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information
no data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: clear, liquid Colour: light red
b)	Odour	no data available
c)	Odour Threshold	no data available
d)	pH	no data available
e)	Melting point/freezing point	no data available
f)	Initial boiling point and boiling range	no data available
g)	Flash point	no data available
h)	Evapouration rate	no data available
i)	Flammability (solid, gas)	no data available
j)	Upper/lower flammability or explosive limits	no data available
k)	Vapour pressure	no data available
l)	Vapour density	no data available
m)	Relative density	1.250 g/cm3
n)	Water solubility	no data available
o)	Partition coefficient: n-octanol/water	no data available
p)	Auto-ignition temperature	no data available

q)	Decomposition temperature	no data available
r)	Viscosity	no data available
s)	Explosive properties	no data available
t)	Oxidizing properties	no data available

9.2 Other safety information
no data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
no data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
no data available

10.4 Conditions to avoid
no data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - no data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
no data available

Inhalation: no data available

Dermal: no data available

no data available

Skin corrosion/irritation
no data available

Serious eye damage/eye irritation
no data available

Respiratory or skin sensitisation
no data available

Germ cell mutagenicity

no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a

carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
no data available
no data available

Specific target organ toxicity - single exposure
no data available

Specific target organ toxicity - repeated exposure
no data available

Aspiration hazard
no data available

Additional Information
RTECS: Not available

burning sensation, Cough, wheezing, laryngitis, Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

12. ECOLOGICAL INFORMATION

12.1 Toxicity
no data available

12.2 Persistence and degradability
no data available

12.3 Bioaccumulative potential
no data available

12.4 Mobility in soil
no data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3265 Class: 8 Packing group: II
Proper shipping name: Corrosive liquid, acidic, organic, n.o.s. (Heptadecafluorooctane-1-sulphonic acid)
Marine pollutant: No
Poison Inhalation Hazard: No

IMDG
UN number: 3265 Class: 8 Packing group: II EMS-No: F-A, S-B
Proper shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Heptadecafluorooctane-1-sulphonic acid)
Marine pollutant: No

IATA
UN number: 3265 Class: 8 Packing group: II
Proper shipping name: Corrosive liquid, acidic, organic, n.o.s. (Heptadecafluorooctane-1-sulphonic acid)

15. REGULATORY INFORMATION

SARA 302 Components
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Water	7732-18-5	
Heptadecafluorooctane-1-sulphonic acid	1763-23-1	2009-07-17

New Jersey Right To Know Components

	CAS-No.	Revision Date
Water	7732-18-5	
Heptadecafluorooctane-1-sulphonic acid	1763-23-1	2009-07-17

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
Eye Dam.	Serious eye damage
H302	Harmful if swallowed.
H302 + H332	Harmful if swallowed or if inhaled
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H351	Suspected of causing cancer.
H360	May damage fertility or the unborn child.
H362	May cause harm to breast-fed children.
H372	Causes damage to organs through prolonged or repeated exposure.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
Lact.	Effects on or via lactation

HMIS Rating

Health hazard:	3
Chronic Health Hazard:	
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	3
Fire Hazard:	0

Reactivity Hazard: 0

Further information

Copyright 2014 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 3.4 Revision Date: 06/27/2014 Print Date: 06/28/2019

SAFETY DATA SHEET

Version 6.1
Revision Date 03/12/2019
Print Date 06/28/2019

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Perfluorooctanoic acid

Product Number : 171468
Brand : Aldrich
CAS-No. : 335-67-1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 Spruce Street
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 4), H302
Acute toxicity, Inhalation (Category 4), H332
Serious eye damage (Category 1), H318
Carcinogenicity (Category 2), H351
Reproductive toxicity (Category 1B), H360
Effects on or via lactation, H362
Specific target organ toxicity - repeated exposure (Category 1), Liver, H372

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

Hazard statement(s)	
H302 + H332	Harmful if swallowed or if inhaled.
H318	Causes serious eye damage.
H351	Suspected of causing cancer.
H360	May damage fertility or the unborn child.
H362	May cause harm to breast-fed children.
H372	Causes damage to organs (Liver) through prolonged or repeated exposure.

Precautionary statement(s)	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P263	Avoid contact during pregnancy/ while nursing.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms	:	Pentadecafluorooctanoic acid Perfluorocaprylic acid Perfluorooctanoic acid
Formula	:	$C_8HF_{15}O_2$
Molecular weight	:	414.07 g/mol
CAS-No.	:	335-67-1
EC-No.	:	206-397-9

Component	Classification	Concentration
Pentadecafluorooctanoic acid		
	Acute Tox. 4; Eye Dam. 1; Carc. 2; Repr. 1B; Lact. ; STOT RE 1; H302, H332, H318, H351, H360, H362, H372	<= 100 %

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice
Move out of dangerous area.Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Continue rinsing eyes during transport to hospital.Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Hydrogen fluoride

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): 6.1D: Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.
Hazardous components without workplace control parameters

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: > 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: > 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: flakes Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	2.6 at 1 g/l
e)	Melting point/freezing point	Melting point/range: 55 - 56 °C (131 - 133 °F) - lit.
f)	Initial boiling point and boiling range	189 °C 372 °F at 981 hPa - lit.

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

g)	Flash point	()No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	0.69 hPa at 25 °C (77 °F)
l)	Vapour density	No data available
m)	Relative density	0.900 g/cm3
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

SECTION 10: Stability and reactivity

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Bases, Oxidizing agents, Reducing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen fluoride
Other decomposition products - No data available
In the event of fire: see section 5

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Inhalation: No data available
Dermal: No data available
LD50 Intraperitoneal - Rat - 189 mg/kg

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity

Rat
DNA damage

Rat
DNA damage

Carcinogenicity
Suspected human carcinogens

IARC:	2B - Group 2B: Possibly carcinogenic to humans (Pentadecafluorooctanoic acid)
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
Effects on or via lactation
Presumed human reproductive toxicant
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
Causes damage to organs through prolonged or repeated exposure. - Liver

Aspiration hazard
No data available

Additional Information
RTECS: RH0781000

Cough, Shortness of breath, Headache, Nausea, Vomiting

Stomach - Irregularities - Based on Human Evidence
Stomach - Irregularities - Based on Human Evidence

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

SECTION 12: Ecological information

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

SECTION 14: Transport information

DOT (US)
UN number: 3261 Class: 8 Packing group: III
Proper shipping name: Corrosive solid, acidic, organic, n.o.s. (Pentadecafluorooctanoic acid)
Reportable Quantity (RQ):
Poison Inhalation Hazard: No

IMDG
UN number: 3261 Class: 8 Packing group: III EMS-No: F-A, S-B
Proper shipping name: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (Pentadecafluorooctanoic acid)

IATA
UN number: 3261 Class: 8 Packing group: III
Proper shipping name: Corrosive solid, acidic, organic, n.o.s. (Pentadecafluorooctanoic acid)

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

SECTION 15: Regulatory information

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

Pentadecafluorooctanoic acid	CAS-No. 335-67-1	Revision Date

Pentadecafluorooctanoic acid	CAS-No. 335-67-1	Revision Date

New Jersey Right To Know Components

Pentadecafluorooctanoic acid	CAS-No. 335-67-1	Revision Date

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16: Other information

Further information
Copyright 2018 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact mlsbranding@sial.com.

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

SAFETY DATA SHEET

Version 6.2
Revision Date 07/25/2018
Print Date 06/28/2019

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : <I>p</>-Xylene

Product Number : 296333
Brand : Sigma-Aldrich
Index-No. : 601-022-00-9

CAS-No. : 106-42-3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 Spruce Street
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable liquids (Category 3), H226

Acute toxicity, Inhalation (Category 4), H332

Acute toxicity, Dermal (Category 4), H312

Skin irritation (Category 2), H315

Acute aquatic toxicity (Category 2), H401

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Warning

Hazard statement(s)

H226	Flammable liquid and vapour.
H312 + H332	Harmful in contact with skin or if inhaled.
H315	Causes skin irritation.
H401	Toxic to aquatic life.

Precautionary statement(s)

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection/ face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P312	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	1,4-Dimethylbenzene
Formula	:	C_8H_{10}
Molecular weight	:	106.17 g/mol
CAS-No.	:	106-42-3
EC-No.	:	203-396-5
Index-No.	:	601-022-00-9

Hazardous components

Component	Classification	Concentration
p-Xylene		
	Flam. Liq. 3; Acute Tox. 4; Skin Irrit. 2; Aquatic Acute 2; H226, H312 + H332, H315, H401	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Storage class (TRGS 510): 3: Flammable liquids

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
p-Xylene	106-42-3	TWA	100 ppm 435 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	150 ppm 655 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	100 ppm 435 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
	Remarks	The value in mg/m3 is approximate.		
		TWA	100 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen		
		STEL	150 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen		

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
p-Xylene	106-42-3	Methylhippuric acids	1.5g/g creatinine	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift (As soon as possible after exposure ceases)			

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.4 mm
Break through time: 30 min

Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid, clear Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 12 - 13 °C (54 - 55 °F) - lit.
f)	Initial boiling point and boiling range	138 °C (280 °F) - lit.
g)	Flash point	25.0 °C (77.0 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 7 %(V) Lower explosion limit: 1.1 %(V)
k)	Vapour pressure	21.3 hPa at 37.7 °C (99.9 °F) 12.0 hPa at 20.0 °C(68.0 °F)
l)	Vapour density	No data available
m)	Relative density	0.861 g/cm3 at 20 °C (68 °F)
n)	Water solubility	0.2 g/l
o)	Partition coefficient: n-octanol/water	log Pow: 3.15
p)	Auto-ignition temperature	529.0 °C (984.2 °F)
q)	Decomposition temperature	No data available
r)	Viscosity	No data available

s) Explosive properties No data available

t) Oxidizing properties No data available

9.2 Other safety information

Surface tension 28.3 mN/m at 20.0 °C (68.0 °F)

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Vapours may form explosive mixture with air.

10.4 Conditions to avoid
Heat, flames and sparks.

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 5,000 mg/kg
LD50 Oral - Rat - male - 3,523 mg/kg
LC50 Inhalation - Rat - 4 h - 4550 ppm
Remarks: Lungs, Thorax, or Respiration:Chronic pulmonary edema. Liver:Other changes. Blood:Changes in cell count (unspecified).
No data available

Skin corrosion/irritation
Skin - Rabbit
Result: Moderate skin irritation - 4 h

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (p-Xylene)

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available
May cause reproductive disorders.

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: ZE2625000

narcosis, Lung irritation, chest pain, pulmonary edema, Central nervous system depression, Gastrointestinal disturbance, Liver injury may occur., Kidney injury may occur., Blood disorders

Stomach - Irregularities - Based on Human Evidence
Stomach - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Oncorhynchus mykiss (rainbow trout) - 2.60 mg/l - 96 h(p-Xylene)
	LC50 - Carassius auratus (goldfish) - 18.00 mg/l - 24 h(p-Xylene)
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 35.50 - 63.10 mg/l - 48 h(p-Xylene)
Toxicity to algae	EC50 - Pseudokirchneriella subcapitata (green algae) - 3.20 - 4.40 mg/l - 72 h(p-Xylene)

12.2 Persistence and degradability

Biodegradability	Result: 87.8 % - Readily biodegradable.

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available(p-Xylene)

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1307 Class: 3 Packing group: III
Proper shipping name: Xylenes
Reportable Quantity (RQ) : 100 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 1307 Class: 3 Packing group: III EMS-No: F-E, S-D
Proper shipping name: XYLENES

IATA
UN number: 1307 Class: 3 Packing group: III
Proper shipping name: Xylenes

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
p-Xylene	106-42-3	2007-07-01

SARA 311/312 Hazards
Fire Hazard, Acute Health Hazard, Chronic Health Hazard

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H226	Flammable liquid and vapour.
H312	Harmful in contact with skin.
H312 + H332	Harmful in contact with skin or if inhaled.
H315	Causes skin irritation.
H332	Harmful if inhaled.
H401	Toxic to aquatic life.

Further information
Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information
Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956
Version: 6.2 Revision Date: 07/25/2018 Print Date: 06/28/2019

SAFETY DATA SHEET

Version 6.1
Revision Date 12/12/2018
Print Date 01/21/2019

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : *sec*-Butylbenzene

Product Number : B90408
Brand : Aldrich
CAS-No. : 135-98-8

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 Spruce Street
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 3), H226
Acute toxicity, Oral (Category 4), H302

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Warning

Hazard statement(s)
H226 Flammable liquid and vapour.
H302 Harmful if swallowed.

Precautionary statement(s)
P210 Keep away from heat/sparks/open flames/hot surfaces. No

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

	smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/ eye protection/ face protection.
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms : 2-Phenylbutane

Formula : $C_{10}H_{14}$
Molecular weight : 134.22 g/mol
CAS-No. : 135-98-8
EC-No. : 205-227-0

Component	Classification	Concentration
sec-Butylbenzene		
	Flam. Liq. 3; Acute Tox. 4; H226, H302	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Dry powder Dry sand

Unsuitable extinguishing media
Do NOT use water jet.

5.2 Special hazards arising from the substance or mixture
Carbon oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Storage class (TRGS 510): 3: Flammable liquids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.
Hazardous components without workplace control parameters

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Splash contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

Body Protection
Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid, clear Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 75.5 °C (167.9 °F) - lit.
f)	Initial boiling point and boiling range	173 - 174 °C 343 - 345 °F - lit.
g)	Flash point	52.0 °C (125.6 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Lower explosion limit: 0.8 %(V)
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	0.863 g/mL at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	418.0 °C (784.4 °F)
q)	Decomposition temperature	No data available
r)	Viscosity	No data available

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

s) Explosive properties No data available

t) Oxidizing properties No data available

9.2 Other safety information
No data available

SECTION 10: Stability and reactivity

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
Heat, flames and sparks.

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - No data available
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 1,926 mg/kg
Remarks: (RTECS)
Inhalation: No data available
LD50 Dermal - Rabbit - > 13,760 mg/kg
Remarks: (RTECS)
No data available

Skin corrosion/irritation
Skin - Rabbit
Result: slight irritation
Remarks: (RTECS)

Serious eye damage/eye irritation

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: CY9100000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

After absorption:
Headache, Nausea, narcosis
Other dangerous properties can not be excluded.
Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information

12.1 Toxicity

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
Discharge into the environment must be avoided.

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable.

Contaminated packaging
Dispose of as unused product.

SECTION 14: Transport information

DOT (US)
UN number: 2709 Class: 3 Packing group: III
Proper shipping name: Butyl benzenes
Reportable Quantity (RQ):
- Marine pollutant: yesPoison Inhalation Hazard: No

IMDG
UN number: 2709 Class: 3 Packing group: III EMS-No: F-E, S-D
Proper shipping name: BUTYLBENZENES
Marine pollutant : yes
Marine pollutant : yes

IATA
UN number: 2709 Class: 3 Packing group: III
Proper shipping name: Butylbenzenes

SECTION 15: Regulatory information

SARA 302 Components
This material does not contain any components with a section 302 EHS TPQ.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Fire Hazard, Acute Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
sec-Butylbenzene	135-98-8	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
sec-Butylbenzene	135-98-8	1993-04-24

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

SECTION 16: Other information

Further information

Copyright 2018 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact mlsbranding@sial.com.

Version: 6.1 Revision Date: 12/12/2018 Print Date: 01/21/2019

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

SAFETY DATA SHEET

Revision Date 26-Dec-2021 **Revision Number** 4

1. Identification

Product Name **Selenium**

Cat No. : **AC419270000; AC419271000; AC419275000**

CAS No 7782-49-2
Synonyms None

Recommended Use Laboratory chemicals.
Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

Fisher Scientific Company
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	Category 3
Acute Inhalation Toxicity - Dusts and Mists	Category 3
Specific target organ toxicity - (repeated exposure)	Category 2

Label Elements

Signal Word
Danger

Hazard Statements
May cause damage to organs through prolonged or repeated exposure
Toxic if swallowed or if inhaled

Precautionary Statements
Prevention
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Use only outdoors or in a well-ventilated area
Do not breathe dust/fume/gas/mist/vapors/spray
Response
Get medical attention/advice if you feel unwell
Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor/physician
Ingestion
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Rinse mouth
Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
May cause long lasting harmful effects to aquatic life

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Selenium	7782-49-2	> 99.5

4. First-aid measures

General Advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.

Ingestion Do NOT induce vomiting. Call a physician or poison control center immediately.

Most important symptoms and effects None reasonably foreseeable.

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Unsuitable Extinguishing Media No information available

Flash Point No information available
Method - No information available

Autoignition Temperature Not applicable
Explosion Limits
Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Dust can form an explosive mixture with air.

Hazardous Combustion Products
None known.
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA

Health	Flammability	Instability	Physical hazards
3	0	0	N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.
Environmental Precautions Should not be released into the environment.

Methods for Containment and Clean Up Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

7. Handling and storage

Handling Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Avoid dust formation. Use only under a chemical fume hood. Do not breathe (dust, vapor, mist, gas). Do not ingest. If swallowed then seek immediate medical assistance.

Storage. Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep under nitrogen. Incompatible Materials. Acids. Strong oxidizing agents. Fluorine. oxygen. Metals.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Selenium	TWA: 0.2 mg/m³	(Vacated) TWA: 0.2 mg/m³	IDLH: 1 mg/m³ TWA: 0.2 mg/m³	TWA: 0.2 mg/m³

Legend

ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection A NIOSH/MSHA approved air purifying dust or mist respirator or European Standard EN 149.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Powder Solid Granules
Appearance	Dark grey
Odor	No information available
Odor Threshold	No information available
pH	No information available
Melting Point/Range	217 - 222 °C / 422.6 - 431.6 °F
Boiling Point/Range	685 °C / 1265 °F
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	1 mmHg @ 345 °C
Vapor Density	Not applicable
Specific Gravity	4.810
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	Not applicable
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	Se
Molecular Weight	78.96

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products.

Incompatible Materials Acids, Strong oxidizing agents, Fluorine, oxygen, Metals

Hazardous Decomposition Products None under normal use conditions

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Selenium	LD50 = 6700 mg/kg (Rat)	Not listed	>5.67 mg/l (Rat) 4hr

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Selenium	7782-49-2	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known

STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed No information available

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Selenium	Not listed	LC50: > 100 mg/L, 96h semi-static (Oncorhynchus mykiss)	Not listed	Not listed

Persistence and Degradability Insoluble in water

Bioaccumulation/ Accumulation No information available.

Mobility Is not likely mobile in the environment due its low water solubility.

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT

UN-No	UN3283
Hazard Class	6.1
Packing Group	III

TDG

UN-No	UN3283
Hazard Class	6.1
Packing Group	III

IATA

UN-No	UN3283
Proper Shipping Name	SELENIUM COMPOUND, SOLID, N.O.S.
Hazard Class	6.1
Packing Group	III

IMDG/IMO

UN-No	UN3283
Proper Shipping Name	SELENIUM COMPOUND, SOLID, N.O.S.
Hazard Class	6.1
Packing Group	III

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Selenium	7782-49-2	X	ACTIVE	-

Legend:
TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)
X - Listed
'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories
Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Selenium	7782-49-2	X	-	231-957-4	X	X		X	X	KE-30924

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313

Component	CAS No	Weight %	SARA 313 - Threshold Values %
Selenium	7782-49-2	> 99.5	1.0

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Selenium	-	-	X	X

Clean Air Act

OSHA - Occupational Safety and Health Administration Not applicable

CERCLA This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Selenium	100 lb	-

California Proposition 65 This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Selenium	X	X	X	X	X

U.S. Department of Transportation
Reportable Quantity (RQ): Y
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Selenium	-	Use restricted. See item 75. (see link for restriction details)	-

https://echa.europa.eu/substances-restricted-under-reach

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Selenium	7782-49-2	Not applicable	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Selenium	7782-49-2	Not applicable	Not applicable	Not applicable	Annex I - Y25

16. Other information

Prepared By Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Revision Date 26-Dec-2021
Print Date 26-Dec-2021

Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS

SAFETY DATA SHEET

Version 6.2
Revision Date 05/28/2017
Print Date 06/28/2019

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Sodium

Product Number : 483745
Brand : Aldrich

CAS-No. : 7440-23-5

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 Spruce Street
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Substances and mixtures, which in contact with water, emit flammable gases (Category 1), H260
Skin corrosion (Category 1B), H314
Serious eye damage (Category 1), H318
Carcinogenicity (Category 1A), H350

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)
H260 In contact with water releases flammable gases which may ignite spontaneously.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H350 May cause cancer.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P223	Keep away from any possible contact with water, because of violent reaction and possible flash fire.
P231 + P232	Handle under inert gas. Protect from moisture.
P260	Do not breathe dust or mist.
P264	Wash skin thoroughly after handling.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P281	Use personal protective equipment as required.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P335 + P334	Brush off loose particles from skin. Immerse in cool water/ wrap in wet bandages.
P363	Wash contaminated clothing before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P402 + P404	Store in a dry place. Store in a closed container.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Reacts violently with water.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Formula : Na
Molecular weight : 22.99 g/mol

Hazardous components

Component		Classification	Concentration
Sodium			
CAS-No. EC-No. Index-No.	7440-23-5 231-132-9 011-001-00-0	Water-react. 1; Skin Corr. 1B; Eye Dam. 1; H260, H314	>= 90 - <= 100 %
Paraffin oils			
CAS-No. EC-No.	8012-95-1 232-384-2	Asp. Tox. 1; H304, H304	>= 90 - <= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.Continue rinsing eyes during transport to hospital.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Dry powder

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Sodium oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Do not flush with water. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combu formation should be taken into consideration before additional processing
Provide appropriate exhaust ventilation at places where dust is formed.Keep away from sources of ignition - No smoking.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.
Never allow product to get in contact with water during storage.

Handle and store under inert gas. Air sensitive.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Paraffin oils	8012-95-1	STEL	10.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		TWA	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	5.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	10.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	5.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Upper Respiratory Tract irritation 2015 Adoption Not classifiable as a human carcinogen		
		Upper Respiratory Tract irritation 2015 Adoption Exposure by all routes should be carefully controlled to levels as low as possible. Suspected human carcinogen		
		TWA	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Upper Respiratory Tract irritation Exposure by all routes should be carefully controlled to levels as low as possible. Suspected human carcinogen		
		TWA	5.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Not classifiable as a human carcinogen		
		TWA	5.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	10.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Upper Respiratory Tract irritation Exposure by all routes should be carefully controlled to levels as low as possible. Suspected human carcinogen		

		TWA	5 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	5 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Not classifiable as a human carcinogen		
		TWA	5 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWA	5 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	10 mg/m3	USA. NIOSH Recommended Exposure Limits

Hazardous components without workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industria situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Complete suit protecting against chemicals, Flame retardant protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use (EN 143) respirator cartridges as a backup to engineering controls. If th full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance Form: Pieces

b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 97.8 °C (208.0 °F) - lit.
f)	Initial boiling point and boiling range	883 °C (1621 °F) - lit.
g)	Flash point	82 °C (180 °F)
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	0.97 g/cm3
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Reacts violently with water.

10.4 Conditions to avoid
Air Do not allow water to enter container.
Exposure to moisture

10.5 Incompatible materials
Oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - No data available
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Sodium oxides
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: Not available

burning sensation, Cough, wheezing, laryngitis, Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Aspiration may lead to:, lipid pneumonia, Effects due to ingestion may include:, laxative effect, Gastrointestinal disturbance, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1428 Class: 4.3 Packing group: I
Proper shipping name: Sodium
Reportable Quantity (RQ) : 10 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 1428 Class: 4.3 Packing group: I EMS-No: F-G, S-N
Proper shipping name: SODIUM

IATA
UN number: 1428 Class: 4.3 Packing group: I
Proper shipping name: Sodium
IATA Passenger: Not permitted for transport

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Reactivity Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Sodium	7440-23-5	1993-04-24
Paraffin oils	8012-95-1	2007-03-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Sodium	7440-23-5	1993-04-24
Paraffin oils	8012-95-1	2007-03-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Sodium	7440-23-5	1993-04-24
Paraffin oils	8012-95-1	2007-03-01

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Asp. Tox.	Aspiration hazard
Eye Dam.	Serious eye damage
H260	In contact with water releases flammable gases which may ignite spontaneously.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H350	May cause cancer.
Skin Corr.	Skin corrosion
Water-react.	Substances and mixtures, which in contact with water, emit flammable gases

HMIS Rating

Health hazard:	3
Chronic Health Hazard:	*
Flammability:	4
Physical Hazard	2

NFPA Rating

Health hazard:	3
Fire Hazard:	4
Reactivity Hazard:	2
Special hazard.I:	W

Further information
Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information
Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956
Version: 6.2 Revision Date: 05/28/2017 Print Date: 06/28/2019

SAFETY DATA SHEET

Version 4.11
Revision Date 06/28/2017
Print Date 06/22/2019

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Tetrachloroethylene

Product Number : 371696
Brand : Sigma-Aldrich
Index-No. : 602-028-00-4

CAS-No. : 127-18-4

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Skin sensitisation (Category 1), H317
Carcinogenicity (Category 2), H351
Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336
Acute aquatic toxicity (Category 2), H401
Chronic aquatic toxicity (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Warning

Hazard statement(s)

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statement(s)	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	Perchloroethylene PCE
Formula	:	C_2Cl_4
Molecular weight	:	165.83 g/mol
CAS-No.	:	127-18-4
EC-No.	:	204-825-9
Index-No.	:	602-028-00-4

Hazardous components

Component	Classification	Concentration
Tetrachloroethylene		
	Skin Irrit. 2; Eye Irrit. 2A; Skin Sens. 1; Carc. 2; STOT SE 3; Aquatic Acute 2; Aquatic Chronic 2; H315, H317, H319, H336, H351, H411	90 - 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Tetrachloroethylene	127-18-4	TWA	25.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Central Nervous System impairment Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Confirmed animal carcinogen with unknown relevance to humans		
		STEL	100.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Confirmed animal carcinogen with unknown relevance to humans		
		Potential Occupational Carcinogen Minimize workplace exposure concentrations. See Appendix A		
		See Table Z-2		
		TWA	100.000000 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		CEIL	200.000000 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Peak	300.000000 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		TWA	25 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Confirmed animal carcinogen with unknown relevance to humans		
		STEL	100 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Confirmed animal carcinogen with unknown relevance to humans		
		Potential Occupational Carcinogen Minimize workplace exposure concentrations. See Appendix A		
		See Table Z-2		

		TWA	100 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		CEIL	200 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Peak	300 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		TWA	25 ppm 170 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		STEL	100 ppm 685 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		C	300 ppm	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		PEL	25 ppm 170 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Tetrachloroethylene	127-18-4	Tetrachloroethylene	3ppm	In end-exhaled air	ACGIH - Biological Exposure Indices (BEI)
	Remarks	Prior to shift (16 hours after exposure ceases)			
		Tetrachloroethylene	0.5000 mg/l	In blood	ACGIH - Biological Exposure Indices (BEI)
		Prior to shift (16 hours after exposure ceases)			
		Tetrachloroethylene	3ppm	In end-exhaled air	ACGIH - Biological Exposure Indices (BEI)
		Prior to shift (16 hours after exposure ceases)			
		Tetrachloroethylene	0.5 mg/l	In blood	ACGIH - Biological Exposure Indices (BEI)
		Prior to shift (16 hours after exposure ceases)			

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.2 mm

Break through time: 49 min
Material tested:Dermatril® P (KCL 743 / Aldrich Z677388, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid, clear Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: -22 °C (-8 °F) - lit.
f)	Initial boiling point and boiling range	121 °C (250 °F) - lit.
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	25.3 hPa (19.0 mmHg) at 25.0 °C (77.0 °F) 17.3 hPa (13.0 mmHg) at 20.0 °C (68.0 °F)
l)	Vapour density	No data available
m)	Relative density	1.623 g/cm3 at 25 °C (77 °F)
n)	Water solubility	0.15 g/l at 25 °C (77 °F)
o)	Partition coefficient: n-octanol/water	log Pow: 2.53 at 23 °C (73 °F)
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available

t) Oxidizing properties No data available

9.2 Other safety information

Surface tension 32.1 mN/m at 20 °C (68 °F)

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents, Strong bases

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - female - 3,385 mg/kg
(OECD Test Guideline 401)

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
Skin - Rabbit
Result: Skin irritation - 4 h
(OECD Test Guideline 404)

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Mild eye irritation - 24 h

Respiratory or skin sensitisation
- Mouse
Result: May cause sensitisation by skin contact.
(OECD Test Guideline 429)

Germ cell mutagenicity
Hamster
ovary
Result: negative

OECD Test Guideline 474
Mouse - male
Result: negative

Carcinogenicity

Limited evidence of carcinogenicity in animal studies

IARC: 2A - Group 2A: Probably carcinogenic to humans (Tetrachloroethylene)

NTP: RAHC - Reasonably anticipated to be a human carcinogen (Tetrachloroethylene)

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information

Repeated dose toxicity	Mouse - female - Oral - LOAEL : 390 mg/kg

RTECS: KX3850000

narcosis, Liver injury may occur., Kidney injury may occur.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	flow-through test LC50 - Oncorhynchus mykiss (rainbow trout) - 5 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 7.50 mg/l - 48 h
Toxicity to algae	static test EC50 - Skeletonema costatum - > 16 mg/l - 7 h

12.2 Persistence and degradability

Biodegradability	aerobic - Exposure time 28 d Result: 11 % - Not readily biodegradable. (OECD Test Guideline 301C)

12.3 Bioaccumulative potential

Bioaccumulation	Lepomis macrochirus (Bluegill) - 21 d - 0.00343 mg/l Bioconcentration factor (BCF): 49

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1897 Class: 6.1 Packing group: III
Proper shipping name: Tetrachloroethylene
Reportable Quantity (RQ): 100 lbsReportable Quantity (RQ): 100 lbs
Poison Inhalation Hazard: No

IMDG
UN number: 1897 Class: 6.1 Packing group: III EMS-No: F-A, S-A
Proper shipping name: TETRACHLOROETHYLENE
Marine pollutant: yes

IATA
UN number: 1897 Class: 6.1 Packing group: III
Proper shipping name: Tetrachloroethylene

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Tetrachloroethylene	127-18-4	2007-07-01

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Reportable Quantity D039 lbs

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Tetrachloroethylene	127-18-4	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Tetrachloroethylene	127-18-4	2007-07-01

	CAS-No.	Revision Date
Tetrachloroethylene	127-18-4	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Tetrachloroethylene	127-18-4	2007-07-01

California Prop. 65 Components

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause cancer. Tetrachloroethylene	127-18-4	2007-09-28

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity

Eye Irrit.	Eye irritation
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	3
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0

Further information

Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.11 Revision Date: 06/28/2017 Print Date: 06/22/2019

SAFETY DATA SHEET

Version 6.1
Revision Date 05/28/2017
Print Date 06/28/2019

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Thallium
Product Number	:	277932
Brand	:	Aldrich
Index-No.	:	081-001-00-3
CAS-No.	:	7440-28-0

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich Inc. 3050 Spruce Street ST. LOUIS MO 63103 UNITED STATES
Telephone	:	+1 314 771-5765
Fax	:	+1 800 325-5052

1.4 Emergency telephone number

Emergency Phone #	:	+1-703-527-3887

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 2), H300
Acute toxicity, Inhalation (Category 2), H330
Acute aquatic toxicity (Category 3), H402
Chronic aquatic toxicity (Category 3), H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word — Danger

Hazard statement(s)

H300 + H330	Fatal if swallowed or if inhaled
H412	Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.

P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P284	Wear respiratory protection.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	Tl
Molecular weight	:	204.38 g/mol
CAS-No.	:	7440-28-0
EC-No.	:	231-138-1
Index-No.	:	081-001-00-3

Hazardous components

Component	Classification	Concentration
Thallium		
	Acute Tox. 2; Aquatic Acute 3; Aquatic Chronic 3; H300 + H330, H412	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
thallium oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combu formation should be taken into consideration before additional processing
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters
Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Thallium	7440-28-0	TWA	0.100000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Alopecia Adopted values or notations enclosed are those for which changes are proposed in the NIC 2010 Revision or addition to the notice of intended changes See Notice of Intended Changes (NIC) Danger of cutaneous absorption		
		TWA	0.020000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Peripheral neuropathy Gastrointestinal damage 2015 Adoption Danger of cutaneous absorption		
		TWA	0.020000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Peripheral neuropathy Gastrointestinal damage		

		Danger of cutaneous absorption varies		
		TWA	0.1 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Skin designation		
		TWA	0.02 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Peripheral neuropathy Gastrointestinal damage Danger of cutaneous absorption varies		
		TWA	0.1 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential for dermal absorption		

8.2 Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industria situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use (EN 143) respirator cartridges as a backup to engineering controls. If th full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance Form: granular

		Colour: light grey
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 303 °C (577 °F) - lit.
f)	Initial boiling point and boiling range	1,457 °C (2,655 °F) - lit.
g)	Flash point	()Not applicable
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
Air sensitive.

10.5 Incompatible materials
Strong acids, Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - thallium oxides
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data availableThallium
Dermal: No data available(Thallium)
No data available(Thallium)

Skin corrosion/irritation
No data available(Thallium)

Serious eye damage/eye irritation
No data available(Thallium)

Respiratory or skin sensitisation
No data available(Thallium)

Germ cell mutagenicity

No data available(Thallium)

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
Possible risk of congenital malformation in the fetus.(Thallium)

No data available(Thallium)

Specific target organ toxicity - single exposure
No data available(Thallium)

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available(Thallium)

Additional Information
RTECS: XG3425000

The most characteristic symptom of thallium exposure is alopecia (loss of impairment of nail growth often resulting in the appearance of crescent-s Other symptoms in acute poisoning relate chiefly to the gastrointestinal system. Acute poisoning results in swelling of the feet and legs, arthral the hands and feet, mental confusion, polyneuritis with severe pain in th angina-like pains, nephritis, wasting and weakness, and lymphocytosis and peripheral nervous system abnormalities may persist including ataxia, tre disorders, memory loss, and psychoses may develop., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.(Thallium)

Stomach - Irregularities - Based on Human Evidence
Stomach - Irregularities - Based on Human Evidence(Thallium)

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Cyprinodon variegatus (sheepshead minnow) - 21.0 mg/l - 96.0 h(Thallium)
	mortality NOEC - Cyprinodon variegatus (sheepshead minnow) - 14.0 mg/l - 96.0 h(Thallium)

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available(Thallium)

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3288 Class: 6.1 Packing group: II
Proper shipping name: Toxic solid, inorganic, n.o.s. (Thallium)
Reportable Quantity (RQ) : 1000 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 3288 Class: 6.1 Packing group: II EMS-No: F-A, S-A
Proper shipping name: TOXIC SOLID, INORGANIC, N.O.S. (Thallium)

IATA
UN number: 3288 Class: 6.1 Packing group: II
Proper shipping name: Toxic solid, inorganic, n.o.s. (Thallium)

15. REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Thallium	7440-28-0	2007-07-01

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Thallium	7440-28-0	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Thallium	7440-28-0	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Thallium	7440-28-0	2007-07-01

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H300	Fatal if swallowed.
H300 + H330	Fatal if swallowed or if inhaled
H330	Fatal if inhaled.
H402	Harmful to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	4
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	4
Fire Hazard:	0
Reactivity Hazard:	0

Further information
Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information
Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956
Version: 6.1 Revision Date: 05/28/2017 Print Date: 06/28/2019

SAFETY DATA SHEET

Version 6.3
Revision Date 03/06/2019
Print Date 06/22/2019

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Toluene

Product Number : 244511
Brand : Sigma-Aldrich
Index-No. : 601-021-00-3
CAS-No. : 108-88-3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 Spruce Street
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 2), H225
Skin irritation (Category 2), H315
Reproductive toxicity (Category 2), H361
Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336
Specific target organ toxicity - repeated exposure (Category 2), H373
Aspiration hazard (Category 1), H304
Short-term (acute) aquatic hazard (Category 2), H401

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

Hazard statement(s)

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H401	Toxic to aquatic life.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P331	Do NOT induce vomiting.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Formula	:	C_7H_8
Molecular weight	:	92.14 g/mol
CAS-No.	:	108-88-3
EC-No.	:	203-625-9

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

Index-No. : 601-021-00-3

Component	Classification	Concentration
Toluene		
	Flam. Liq. 2; Skin Irrit. 2; Repr. 2; STOT SE 3; STOT RE 2; Asp. Tox. 1; Aquatic Acute 2; H225, H315, H361d, H336, H373, H304, H401 Concentration limits: 20 %: STOT SE 3, H336;	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

5.4 Further information
Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Use explosion-proof equipment.Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Handle and store under inert gas.
Storage class (TRGS 510): 3: Flammable liquids

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

Component	CAS-No.	Value	Control parameters	Basis
Toluene	108-88-3	TWA	100 ppm 375 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		STEL	150 ppm 560 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWA	200 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
	Remarks	Z37.12-1967		
		CEIL	300 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z37.12-1967		
		Peak	500 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z37.12-1967		
		TWA	20 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Visual impairment Female reproductive Pregnancy loss 2018 Adoption Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen		
		TWA	100 ppm 375 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	150 ppm 560 mg/m3	USA. NIOSH Recommended Exposure Limits

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Toluene	108-88-3	Toluene	0.02 mg/l	In blood	ACGIH - Biological Exposure Indices (BEI)
	Remarks	Prior to last shift of workweek			
		Toluene	0.03 mg/l	Urine	ACGIH - Biological Exposure Indices (BEI)
		End of shift (As soon as possible after exposure ceases)			
		o-Cresol	0.3mg/g Creatinine	Urine	ACGIH - Biological Exposure Indices (BEI)
		End of shift (As soon as possible after exposure ceases)			

Predicted No Effect Concentration (PNEC)

Compartment	Value
Soil	2.89 mg/kg

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

Marine water	0.68 mg/l
Fresh water	0.68 mg/l
Marine sediment	16.39 mg/kg
Fresh water sediment	16.39 mg/kg
Sewage treatment plant	13.61 mg/l
Aquatic intermittent release	0.68 mg/l

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Splash contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid Colour: colourless
b)	Odour	aromatic
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: -93 °C (-135 °F)
f)	Initial boiling point and boiling range	110 - 111 °C 230 - 232 °F
g)	Flash point	4.0 °C (39.2 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 7 %(V) Lower explosion limit: 1.2 %(V)
k)	Vapour pressure	29.1 hPa at 20.0 °C (68.0 °F)
l)	Vapour density	No data available
m)	Relative density	0.865 g/mL at 25 °C (77 °F)
n)	Water solubility	0.5 g/l at 15 °C (59 °F)
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	535.0 °C (995.0 °F)
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

SECTION 10: Stability and reactivity

10.1 Reactivity
No data available

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Vapours may form explosive mixture with air.

10.4 Conditions to avoid
Heat, flames and sparks.

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - No data available
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - male - 5,580 mg/kg
(Tested according to Directive 92/69/EEC.)
LC50 Inhalation - Rat - male and female - 4 h - 25.7 mg/l
(OECD Test Guideline 403)
LD50 Dermal - Rabbit - 12,124 mg/kg
Remarks: (ECHA)
No data available

Skin corrosion/irritation
Skin - Rabbit
Result: Irritating to skin. - 4 h
Remarks: (ECHA)

Serious eye damage/eye irritation
Eyes - Rabbit
Result: No eye irritation
(OECD Test Guideline 405)

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
In vitro mammalian cell gene mutation test
Mouse lymphoma test
Result: negative
Ames test
S. typhimurium
Result: negative

Rat - Bone marrow
Result: negative
(ECHA)

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
Suspected of damaging the unborn child.

Specific target organ toxicity - single exposure
May cause drowsiness or dizziness. - Central nervous system

Specific target organ toxicity - repeated exposure
May cause damage to organs through prolonged or repeated exposure. - Central nervous system

Aspiration hazard
Aspiration hazard, Aspiration may cause pulmonary oedema and pneumonitis.

Additional Information
RTECS: XS5250000

Drowsiness, irritant effects, Dizziness, Convulsions, Headache, Nausea, Vomiting, Circulatory collapse, somnolence, inebriation, Unconsciousness, respiratory arrest, CNS disorders, respiratory paralysis, death
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence
Stomach - Irregularities - Based on Human Evidence

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	LC50 - Oncorhynchus mykiss (rainbow trout) - 5.8 mg/l - 96 h Remarks: (ECOTOX Database)
	NOEC - Pimephales promelas (fathead minnow) - 5.44 mg/l - 7 d
Toxicity to daphnia and other aquatic invertebrates	Immobilization EC50 - Daphnia magna (Water flea) - 6 mg/l - 48 h Remarks: (ECOTOX Database)
Toxicity to algae	EC50 - Chlorella vulgaris (Fresh water algae) - 245.00 mg/l - 24 h Remarks: (ECOTOX Database)
	EC50 - Pseudokirchneriella subcapitata (green algae) - 10.00 mg/l - 24 h Remarks: (ECOTOX Database)

12.2 Persistence and degradability

Biodegradability	aerobic - Exposure time 20 d Result: 86 % - Readily biodegradable. Remarks: (IUCLID)

12.3 Bioaccumulative potential

Bioaccumulation	Leuciscus idus (Golden orfe) - 3 d - 0.05 mg/l(Toluene)

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

Bioconcentration factor (BCF): 90

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life.
No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

SECTION 14: Transport information

DOT (US)
UN number: 1294 Class: 3 Packing group: II
Proper shipping name: Toluene
Reportable Quantity (RQ): 1000 lbs
Poison Inhalation Hazard: No

IMDG
UN number: 1294 Class: 3 Packing group: II EMS-No: F-E, S-D
Proper shipping name: TOLUENE

IATA
UN number: 1294 Class: 3 Packing group: II
Proper shipping name: Toluene

SECTION 15: Regulatory information

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

CAS-No. Revision Date

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

Toluene	108-88-3	2007-07-01

SARA 311/312 Hazards
Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Toluene	108-88-3	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Toluene	108-88-3	2007-07-01

California Prop. 65 Components

, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.Toluene	CAS-No. 108-88-3	Revision Date 2009-02-01

SECTION 16: Other information

Further information
Copyright 2018 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact mlsbranding@sial.com.

Version: 6.3 Revision Date: 03/06/2019 Print Date: 06/22/2019

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

SAFETY DATA SHEET

Version 4.19
Revision Date 08/07/2018
Print Date 11/10/2018

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Xylenes

Product Number : 247642
Brand : Sigma-Aldrich

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable liquids (Category 3), H226
Acute toxicity, Inhalation (Category 4), H332
Skin irritation (Category 2), H315
Carcinogenicity (Category 2), H351
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
Specific target organ toxicity - repeated exposure (Category 2), H373
Specific target organ toxicity - repeated exposure, Inhalation (Category 2), Central nervous system, Liver, Kidney, H373
Aspiration hazard (Category 1), H304
Acute aquatic toxicity (Category 2), H401

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs (Central nervous system, Liver, Kidney)

	through prolonged or repeated exposure if inhaled.
H401	Toxic to aquatic life.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P331	Do NOT induce vomiting.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	Xylene mixture of isomers
Formula	:	C_8H_{10}
Molecular weight	:	106.17 g/mol
Registration number	:	01-2119488216-32-XXXX

Hazardous components

Component	Classification	Concentration
Xylene		
	Flam. Liq. 3; Acute Tox. 4; Skin Irrit. 2; STOT SE 3; STOT RE 2; Asp. Tox. 1; Aquatic Acute 2; H226, H304, H315, H332, H335, H373, H401	90 - 100 %
Ethylbenzene		
	Flam. Liq. 2; Acute Tox. 4; Carc. 2; STOT RE 2; Asp. Tox. 1; Aquatic Acute 2; H225, H304, H332, H351, H373, H401	20 - 30 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Dry powder Dry sand

Unsuitable extinguishing media
Do NOT use water jet.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Storage class (TRGS 510): 3: Flammable liquids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Xylene	1330-20-7	STEL	150 ppm 655 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		C	300 ppm	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		PEL	100 ppm 435 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		TWA	100 ppm 435 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
	Remarks	The value in mg/m3 is approximate.		
		TWA	100 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen		
		STEL	150 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen		
Ethylbenzene	100-41-4	TWA	20 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Cochlear impair Kidney damage (nephropathy) Upper Respiratory Tract irritation Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Confirmed animal carcinogen with unknown relevance to humans		

		TWA	100 ppm 435 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	125 ppm 545 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	100 ppm 435 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		The value in mg/m3 is approximate.		
		PEL	5 ppm 22 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		STEL	30 ppm 130 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
	-	Methylhippuric acids	1.5g/g creatinine	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift (As soon as possible after exposure ceases)			
alkylbenzene		Sum of mandelic acid and phenyl glyoxylic acid	0.15g/g creatinine	Urine	ACGIH - Biological Exposure Indices (BEI)
		End of shift (As soon as possible after exposure ceases)			

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Splash contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: clear, liquid Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	< 0 °C (< 32 °F)
f)	Initial boiling point and boiling range	137 - 140 °C (279 - 284 °F) - lit.
g)	Flash point	25 °C (77 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 7 %(V) Lower explosion limit: 1.1 %(V)
k)	Vapour pressure	24 hPa (18 mmHg) at 37.70 °C (99.86 °F)
l)	Vapour density	3.67 - (Air = 1.0)
m)	Relative density	0.86 g/mL at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

Relative vapour density	3.67 - (Air = 1.0)

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Vapours may form explosive mixture with air.

10.4 Conditions to avoid
Heat, flames and sparks.

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

LD50 Oral - Rat - male - 3,523 mg/kg
Remarks: (ECHA)

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Skin - Rabbit
Result: Irritations
Remarks: (IUCLID)

Drying-out effect resulting in rough and chapped skin. After long-term exposure to the chemical: Dermatitis

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

In animal experiments: - Mouse
Result: Does not cause skin sensitisation.
(OECD Test Guideline 429)

Germ cell mutagenicity
No data available

Mutagenicity (mammal cell test): chromosome aberration.
Result: negative
(National Toxicology Program)

Ames test
Salmonella typhimurium
Result: negative

Carcinogenicity

IARC:	2B - Group 2B: Possibly carcinogenic to humans (Ethylbenzene)
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available
No data available

Specific target organ toxicity - single exposure
No data available
Acute oral toxicity - Gastrointestinal disturbance
Acute inhalation toxicity - mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory tract, Inhalation may lead to the formation of oedemas in the respiratory tract.

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Blurred vision, Incoordination., Headache, Nausea, Vomiting, Dizziness, Weakness, anemia, Prolonged or repeated exposure to skin causes defatting and dermatitis.
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

After absorption:
Systemic effects:
Headache, somnolence, Dizziness, euphoria, agitation, spasms, respiratory paralysis, Unconsciousness, narcosis, inebriation
Effect potentiated by: ethanol
Other dangerous properties can not be excluded.
Handle in accordance with good industrial hygiene and safety practice.

Stomach - Irregularities - Based on Human Evidence
Stomach - Irregularities - Based on Human Evidence
Stomach - Irregularities - Based on Human Evidence (Ethylbenzene)

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
Toxic to aquatic life.
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1307 Class: 3 Packing group: III
Proper shipping name: Xylenes
Reportable Quantity (RQ): 100 lbsReportable Quantity (RQ): 100 lbs
Poison Inhalation Hazard: No

IMDG
UN number: 1307 Class: 3 Packing group: III EMS-No: F-E, S-D
Proper shipping name: XYLENES

IATA
UN number: 1307 Class: 3 Packing group: III
Proper shipping name: Xylenes

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Ethylbenzene	100-41-4	2007-07-01
Xylene	1330-20-7	1993-04-24

SARA 311/312 Hazards
Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Reportable Quantity F003 lbs

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Xylene	1330-20-7	1993-04-24
Ethylbenzene	100-41-4	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Xylene	1330-20-7	1993-04-24
Ethylbenzene	100-41-4	2007-07-01

California Prop. 65 Components

, which is/are known to the State of California to cause cancer.	CAS-No.	Revision Date
For more information go to www.P65Warnings.ca.gov.	100-41-4	2007-09-28
Ethylbenzene		

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Asp. Tox.	Aspiration hazard
Carc.	Carcinogenicity
Flam. Liq.	Flammable liquids
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H332	Harmful if inhaled.

H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure if inhaled.
H401	Toxic to aquatic life.
Skin Irrit.	Skin irritation
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure

Further information

Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.19 Revision Date: 08/07/2018 Print Date: 11/10/2018

SAFETY DATA SHEET

Version 6.0
Revision Date 05/28/2017
Print Date 06/28/2019

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Zinc

Product Number : 324930
Brand : Aldrich
Index-No. : 030-001-00-1

CAS-No. : 7440-66-6

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 Spruce Street
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Pyrophoric solids (Category 1), H250
Self-heating substances and mixtures (Category 1), H251
Substances and mixtures, which in contact with water, emit flammable gases (Category 1), H260
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)
H250 Catches fire spontaneously if exposed to air.
H251 Self-heating: may catch fire.
H260 In contact with water releases flammable gases which may ignite spontaneously.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P222	Do not allow contact with air.
P223	Do not allow contact with water.
P231 + P232	Handle under inert gas. Protect from moisture.
P235 + P410	Keep cool. Protect from sunlight.
P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection/ face protection.
P335 + P334	Brush off loose particles from skin. Immerse in cool water/ wrap in wet bandages.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P391	Collect spillage.
P402 + P404	Store in a dry place. Store in a closed container.
P407	Maintain air gap between stacks/ pallets.
P413	Store bulk masses greater than .? kg/ .? lbs at temperatures not exceeding .? °C/ .? °F.
P420	Store away from other materials.
P422	Store contents under inert gas.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Combustible dust

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	Zn
Molecular weight	:	65.39 g/mol
CAS-No.	:	7440-66-6
EC-No.	:	231-175-3
Index-No.	:	030-001-00-1

Hazardous components

Component	Classification	Concentration
Zinc powder (pyrophoric)		
	Pyr. Sol. 1; Self-heat. 1; Water-react. 1; Aquatic Acute 1; Aquatic Chronic 1; H250, H251, H260, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Dry powder

5.2 Special hazards arising from the substance or mixture
Zinc/zinc oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Do not flush with water. Keep in suitable, closed containers for disposal. Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Further processing of solid materials may result in the formation of combu formation should be taken into consideration before additional processing
Provide appropriate exhaust ventilation at places where dust is formed.Keep away from sources of ignition - No smoking.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Never allow product to get in contact with water during storage.

Keep in a dry place.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters
Components with workplace control parameters
Contains no substances with occupational exposure limit values.
Hazardous components without workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Protective gloves against thermal risks

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industria situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Flame retardant protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use (EN 143) respirator cartridges as a backup to engineering controls. If th full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder Colour: grey
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 420 °C (788 °F) - lit.
f)	Initial boiling point and boiling range	907 °C (1665 °F) - lit.
g)	Flash point	()No data available
h)	Evaporation rate	No data available

i)	Flammability (solid, gas)	May form combustible dust concentrations in air.
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	1 hPa at 487 °C (909 °F)
l)	Vapour density	No data available
m)	Relative density	7.133 g/mL at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	log Pow: 5
p)	Auto-ignition temperature	The substance or mixture is classified as self heating with the category 1., The substance or mixture is pyrophoric with the category 1.
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Reacts violently with water.

10.4 Conditions to avoid
Exposure to moisture

10.5 Incompatible materials
Strong acids and oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Zinc/zinc oxides
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data availableZinc powder (pyrophoric)
Inhalation: No data available(Zinc powder (pyrophoric))
Dermal: No data available(Zinc powder (pyrophoric))
No data available(Zinc powder (pyrophoric))

Skin corrosion/irritation
No data available(Zinc powder (pyrophoric))

Serious eye damage/eye irritation
No data available(Zinc powder (pyrophoric))

Respiratory or skin sensitisation
Did not cause sensitisation on laboratory animals.(Zinc powder (pyrophoric))

Germ cell mutagenicity

No data available(Zinc powder (pyrophoric))

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available(Zinc powder (pyrophoric))

No data available(Zinc powder (pyrophoric))

Specific target organ toxicity - single exposure
No data available(Zinc powder (pyrophoric))

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available(Zinc powder (pyrophoric))

Additional Information
RTECS: ZG8600000

chills, dry throat, sweet taste, Fever, Cough, Nausea, Vomiting, Weakness(Zinc powder (pyrophoric))
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.(Zinc powder (pyrophoric))

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Cyprinus carpio (Carp) - 450.0 µg/l - 96.0 h(Zinc powder (pyrophoric))
Toxicity to daphnia and other aquatic invertebrates	LC50 - Daphnia magna (Water flea) - 0.068 mg/l - 48 h(Zinc powder (pyrophoric))
	mortality NOEC - Daphnia (water flea) - 0.101 - 0.14 mg/l - 7 d(Zinc powder (pyrophoric))

12.2 Persistence and degradability

12.3 Bioaccumulative potential

Bioaccumulation	Algae - 7 d at 16 °C - 5 µg/l(Zinc powder (pyrophoric))
	Bioconcentration factor (BCF): 466

12.4 Mobility in soil
No data available(Zinc powder (pyrophoric))

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN number: 1436 Class: 4.3 (4.2) Packing group: II
Proper shipping name: Zinc powder
Reportable Quantity (RQ) : 1000 lbs

Poison Inhalation Hazard: No

IMDG

UN number: 1436 Class: 4.3 (4.2) Packing group: II EMS-No: F-G, S-O
Proper shipping name: ZINC POWDER
Marine pollutant : yes

IATA

UN number: 1436 Class: 4.3 (4.2) Packing group: II
Proper shipping name: Zinc powder

15. REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Zinc powder (pyrophoric)	7440-66-6	1993-04-24

SARA 311/312 Hazards

Reactivity Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Zinc powder (pyrophoric)	7440-66-6	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Zinc powder (pyrophoric)	7440-66-6	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
Zinc powder (pyrophoric)	7440-66-6	1993-04-24

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H250	Catches fire spontaneously if exposed to air.
H251	Self-heating: may catch fire.
H260	In contact with water releases flammable gases which may ignite spontaneously.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	0
Chronic Health Hazard:	
Flammability:	3
Physical Hazard	1

NFPA Rating

Health hazard:	0
Fire Hazard:	3
Reactivity Hazard:	1
Special hazard.I:	W

Further information

Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956
Version: 6.0 Revision Date: 05/28/2017 Print Date: 06/28/2019

Appendix F:

Quality Assurance Project Plan

SESI
CONSULTING ENGINEERS

Geotechnical
Environmental
Site Civil

959 Route 46E, Fl 3, Ste 300
Parsippany, NJ 07054
973.808.9050
www.sesi.org

Quality Assurance Project Plan

For

EAST POST ROAD GARAGE SITE

WESTCHESTER COUNTY, WHITE PLAINS, NEW YORK

Prepared for:

LC Post Road Garage LLC, LC Post Garage Holdings LLC, 34 EPR, LLC, and East Post Road LLC
May 2026

SESI Project No:
14228

Table of Contents

LIST OF ACRONYMS ..... **i**
1.0 PROJECT DESCRIPTION **1**
2.0 PROJECT ORGANIZATION **4**
2.1 PROJECT PRINCIPAL 4
2.2 PRINCIPAL ENGINEEER 4
2.3 PROJECT MANAGER 5
2.4 REMEDIAL INVESTIGATION WORK PLAN PROJECT MANAGER 5
2.5 FIELD TEAM LEADER 5
2.6 QUALITY ASSURANCE OFFICER 5
3.0 QA/QC OBJECTIVES FOR MEASUREMENT OF DATA **5**
3.1 COMPLETENESS 5
3.2 REPRESENTATIVENESS 6
3.3 COMPARABILITY 6
3.4 PRECISION AND ACCURACY 6
4.0 SAMPLING PROCEDURES **7**
4.1 SAMPLING PROGRAM 7
4.1.1 DRILLING/SAMPLING PROCEDURES 8
4.1.2 MONITORING WELL COMPLETION 8
4.1.3 WELL DEVELOPMENT 9
4.1.4 DECONTAMINATION 9
4.1.5 PFAS SAMPLING CONSIDERATIONS 9
4.2 GROUNDWATER SAMPLING PROGRAM 10
4.2.1 WELL EVACUATION 10
4.2.2 SAMPLING PROCEDURE 11
4.3 SOIL VAPOR SAMPLING 11
4.4 SAMPLE PRESERVATION AND SHIPMENT 12
5.0 SAMPLE CUSTODY **12**
5.1 FIELD SAMPLE CUSTODY 12
5.2 LABORATORY SAMPLE CUSTODY 13
5.3 FINAL EVIDENCE FILES 13
6.0 CALIBRATION PROCEDURES **14**
7.0 ANALYTICAL PROCEDURES **14**
7.1 VOLATILE ORGANICS 14
7.2 SEMI-VOLATILE ORGANIC COMPUNDS 14

7.3 PESTICIDE AND PCB COMPOUNDS....15
7.4 METALS....15
7.5 PER- AND POLYFLUOROALKYL SUBSTANCES....15
7.6 SITE SPECIFICITY OF ANALYSES....17

TABLES

TABLE 2.1 SESI PERSONNEL AND SUBCONTRACTORS

TABLE 4.1 SAMPLING PROCEDURE FOR MONITORING WELLS USING LOW-STESS (LOW-FLOW) METHODS

TABLE 4.2 SAMPLE CONTAINERIZATION

TABLE 4.3 SAMPLING OVERVIEW

TABLE 7.1 CONTRACT-REQUIRED QUANTITATION LEVELS AND ANALYTICAL METHODS FOR ASP INORGANICS, ASP VOLATILES, ASP SEMI-VOLATILES, ASP PESTICIDES, AND PCBs

LIST OF ACRONYMS

Acronym	Definition
AAS	Absorption Spectroscopy
ASP	Analytical Service Protocol
BCP	Brownfield Cleanup Program
DUSR	Data Usability Summary Report
ELAP	Environmental Laboratory Accreditation Program
GC/MS	Gas Chromatography/Mass Spectrometry
HAS	Hollow-stem Auger
HDPE	High-Density Polyethylene
LDPE	Low-density Polyethylene
LFPS	Low Flow Purging Sampling
MDL	Method Detection Limit
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PCB	Polychlorinated Biphenyls
PFAS	Per- and polyfluoroalkyl substances
PFOA	Perfluorooctanoic Acid
PFOS	Perfluorooctanesulfonic Acid
PPE	Personal Protective Equipment
PTFE	Polytetrafluoroethylene
QAPP	Quality Assurance Project Plan
QA/QC	Quality Assurance/Quality Control
RAWP	Remedial Action Work Plan
SESI	SESI Consulting Engineers, Inc.
TIC	Tentatively Identified Compound
TCL	Target Compound List
USEPA	United States Environmental Protection Agency
USCO	Unrestricted Use Soil Cleanup Objectives
VOC	Volatile Organic Compound
WPHA	White Plains Housing Authority

1.0 PROJECT DESCRIPTION

This document presents the Quality Assurance Project Plan (QAPP) for the Remedial Action Work Plan (RAWP) for the proposed development known as East Post Road Garage Site, which consists of the tax parcels 130.27-2-5, 130.27-2-4, 130.27-2-2.1, a portion of 125.83-7-1.1, and the discontinued portion of Brookfield Street north of East Post Road on the White Plains Tax Map (the Site). The Site is located in the County of Westchester and consists 2.34 acres of land. The Site is located in a commercial and residential area. The Site is bound to the east by Winchester Street followed by commercial properties. The Site is bound to the south by East Post Road followed by White Plains Hospital facilities, to the west by various commercial properties and to the north by the rest of the White Plains Housing Authority (residential). The closest surface water body is the Bronx Rive, located approximately 0.37 miles northwest of the Site. The Site topography is relatively level with regional topography decreasing to the north.

SESI Consulting Engineers (SESI) prepared the RAWP for East Post Road Parking Garage, White Plains, New York, dated January 2026, which describes the investigation activities to be conducted at the Site, as part of the Site's planned remedial investigation and remediation.

The remedial actions selected for the Site include the following:

1. A remedial program will be implemented to provide the details necessary for the construction, operation, optimization, maintenance, and monitoring of the remedial program. Green remediation principles and techniques will be implemented to the extent feasible in the design, implementation, and site management of the remedy as per DER-31. The major green remediation components are as follows:
    - Considering the environmental impacts of treatment technologies and remedy stewardship over the long term;
    - Reducing direct and indirect greenhouse gases and other emissions;
    - Increasing energy efficiency and minimizing use of non-renewable energy;
    - Conserving and efficiently managing resources and materials;
    - Reducing waste, increasing recycling and increasing reuse of materials which would otherwise be considered a waste;
    - Maximizing habitat value and creating habitat when possible;
    - Fostering green and healthy communities and working landscapes which balance ecological, economic and social goals;
    - Integrating the remedy with the end use where possible and encouraging green and sustainable re-development; and

- Additionally, to incorporate green remediation principles and techniques to the extent feasible in the future development at this site, any future on-site buildings shall be constructed, at a minimum, to meet the 2020 Energy Conservation Construction Code of New York (or most recent edition) to improve energy efficiency as an element of construction.

As part of the remedial program, to evaluate the remedy with respect to green and sustainable remediation principles, an environmental footprint analysis will be completed. The environmental footprint analysis will be completed using an accepted environmental footprint analysis calculator such as SEFA (Spreadsheets for Environmental Footprint Analysis, USEPA), SiteWise™ (available in the Sustainable Remediation Forum [SURF] library) or similar Department accepted tool. Water consumption, greenhouse gas emissions, renewable and non-renewable energy use, waste reduction and material use will be estimated, and goals for the project related to these green and sustainable remediation metrics, as well as for minimizing community impacts, protecting habitats and natural and cultural resources, and promoting environmental justice, will be incorporated into the remedial program, as appropriate. The project will include detailed requirements to achieve the green and sustainable remediation goals. Further, progress with respect to green and sustainable remediation metrics will be tracked during implementation of the remedial action and reported in the Final Engineering Report (FER), including a comparison to the goals established during the remedial program.

Additionally, the remedial program will include a climate change vulnerability assessment, to evaluate the impact of climate change on the project site and the proposed remedy. Potential vulnerabilities associated with extreme weather events (e.g., hurricanes, lightning, heat stress and drought), flooding, and sea level rise will be identified, and the remedial program will incorporate measures to minimize the impact of climate change on potential identified vulnerabilities.

2. Demolition of all remaining on-Site structures and removal of hydraulic lifts at Former 60 East Post Road (Former Firestone Auto Repair Site);
3. Installation of SOE to perform the preferred Track 1 remedial action and which will be designed to prevent off-Site migration emanating from the Site and onto the Site from any other potential sources, including the Brookfield Commons Phase 3 Site (BCP Site No. C360246);
4. Excavation of soil/fill exceeding Track 1 UUSCOs;

5. Screening for indications of contamination (by visual means, odor, and monitoring with PID) of all excavated soil during any intrusive Site work;
6. Collection and analysis of end-point samples to evaluate the performance of the remedy with respect to attainment of Track 1 UUSCOs;
7. Appropriate off-Site disposal of all material removed from the Site in accordance with all Federal, State and local rules and regulations for handling, transport, and disposal;
8. To the extent required, import of materials to be used for backfill in compliance with: (1) chemical limits and other specifications included in NYCRR Sections 375-6.7(d) and 375-6.8 (b) and DER-10, (2) all Federal, State and local rules and regulations for handling and transport of material;
9. Dewatering and treatment of contaminated groundwater;
10. In-Situ treatment of residual contaminated groundwater;
11. Replacement of monitoring well network and sampling of groundwater to determine the residual contaminant levels following completion of dewatering operations during construction of the proposed parking garage and in-situ injections.
12. Installation of waterproofing and a vapor barrier under the proposed building's foundation as a green remediation measure as part of the construction project.
13. Recording of an Environmental Easement only to the extent necessary for groundwater monitoring. The EE will remain effective until an unconditional Track 1 remedy is accomplished within five (5) years. If the unconditional Track 1 remedy is not achieved in this timeframe because of any remaining on-Site conditions that do not meet the BCP Track 1 requirements, the EE will be converted into a Track 2 remedy for any residual groundwater contamination.
14. To the extent required if unconditional Track 1 is not achieved, publication of a Site Management Plan for long term management of residual contamination as required by the Environmental Easement, including plans for: (1) Institutional and Engineering Controls, (2) monitoring, (3) operation and maintenance and (4) reporting;

15. All responsibilities associated with the Remedial Action, including permitting requirements and pretreatment requirements, will be addressed in accordance with all applicable Federal, State and local rules and regulations.

2.0 PROJECT ORGANIZATION

The RAWP activities will be conducted by SESI and their qualified subcontractors, on behalf of LC Post Road Garage, LLC. The organization of SESI's key project management and field staff, and respective areas of responsibility, is presented below **(Table 2.1)** along with the names of subcontractors.

Table 2.1—SESI Personnel and Subcontractors

Role	Name	Telephone No.
Project Principal	Fuad Dahan, P.E., PhD	973-808-9050 x249
Project Manager (PM)	Andrew Schweitzer, PE	973-808-9050 x295
Principal Engineer	Andrew Schweitzer, PE	973-808-9050 x295
Remedial Action Work Plan Project Manager	Andrew Schweitzer, PE	973-808-9050 x295
Field Team Leader	Brett Cheadle	973-808-9050 x272
Quality Assurance Officer	Andrew Schweitzer, PE	973-808-9050 x295
Field Personnel	TBD	TBD
Analytical Laboratory	Eurofins Environment Testing	802-923-1029
Data Validator	AMXconsult, LLC	860-942-2881
Driller	PG Environmental	631-637-6352

2.1 PROJECT PRINCIPAL

Provides technical and administrative oversight and guidance throughout the project, assist in securing company resources, participate in technical review of deliverables, and attend key meetings as needed.

2.2 PRINCIPAL ENGINEEER

Provides technical guidance and review of reports, analytical data. Will have key involvement in screening and development of remedial alternatives.

2.3 PROJECT MANAGER

Responsible for maintaining the day-to-day schedule for completing the fieldwork and deliverables according to Brownfield Cleanup Program (BCP) requirements and client expectations.

2.4 REMEDIAL ACTION WORK PLAN PROJECT MANAGER

Responsible for coordinating and directing field efforts of SESI staff and subcontractors, and for maintaining that work is done according to QAPP specifications.

2.5 FIELD TEAM LEADER

Responsible for overseeing field work during the implementation of the RAWP, including observing subcontractors, maintaining field notes, and collecting samples of various environmental media.

2.6 QUALITY ASSURANCE OFFICER

Responsible for reviewing sampling procedures and certify that the data was collected and analyzed using the appropriate procedures.

3.0 QA/QC OBJECTIVES FOR MEASUREMENT OF DATA

In cases where NYSDOH ELAP Certification exists for a specific group or category of parameters, the laboratory performing analysis in connection with this project will have appropriate New York State Department of Health (NYSDOH) ELAP Certification. Eurofins Environment Testing, Edison, New Jersey, an ELAP-certified lab, will be performing the sample analyses for the project. Analytical Service Protocol (ASP, June 2000) Category B deliverables are required for all samples. All data will be sent to a third party, AMXconsult, LLC , Storrs, CT, for validation in accordance with NYSDEC BCP requirements.

Detection limits set by New York State Department of Environmental Conservation (NYSDEC) ASP will be used for all sample analyses unless otherwise noted. If NYSDEC-ASP-dictated detection limits prove insufficient to assess project goals (i.e., comparison to drinking water standards or attainment of Applicable or Relevant and Appropriate Requirements [ARARs]), then ASP Special Analytical Services (SAS) or other appropriate methods will be utilized.

The quality assurance/quality control (QA/QC) objectives for all measurement data include completeness, representativeness, comparability, precision, and accuracy.

3.1 COMPLETENESS

The analyses performed must be appropriate and inclusive. The parameters selected for analysis are chosen to meet the objectives of the study.

Completeness of the analyses will be assessed by comparing the number of parameters intended to be analyzed with the number of parameters successfully determined and validated. Data must meet QC acceptance criteria for 100 percent or more of requested determinations.

3.2 REPRESENTATIVENESS

Samples must be taken of the population and, where appropriate, the population will be characterized statistically to express the degree to which the data accurately and precisely represent a characteristic of a population, parameter variations at a sampling point, a process, or environmental condition.

Non-dedicated sampling devices will be cleaned between sampling points by washing and rinsing with Alconox, followed by a thorough rinse with distilled water. Specific cleaning techniques are described in the Field Sampling Procedure. Two types of blank samples will accompany each sample set where Target Compound List (TCL) volatiles are to be analyzed (water matrix only). A trip blank, consisting of a 40 ml VOA vial of organic-free water prepared by the laboratory, will accompany each set of sample bottles from the laboratory to the field and back. This bottle will remain sealed throughout the shipment and sampling process. This blank will be analyzed for TCL volatile organic compounds (VOCs) along with the groundwater samples to ensure that contamination with TCL volatile compounds has not occurred during the bottle preparation, shipment and sampling phase of the project. In order to check for contaminant carryover when non-dedicated sampling equipment is used, a rinsate blank will be submitted to the laboratory. This blank will also be analyzed for TCL volatile organic compounds. The TCL compounds are identified in the United States Environmental Protection Agency (USEPA) Contract Laboratory Program dated 10/2016 or as periodically updated.

The analysis results obtained from the determination of identical parameters in field duplicate samples can be used to further assess the representativeness of the sample data.

3.3 COMPARABILITY

Consistency in the acquisition, preparation, handling and analysis of samples is necessary in order for the results to be compared where appropriate. Additionally, the results obtained from analyses of the samples will be compared with the results obtained in previous studies, if available.

To ensure the comparability of analytical results with those obtained in previous or future testing, all samples will be analyzed by NYSDEC-approved methods. The NYSDEC-ASP mandated holding times for various analyses will be strictly adhered to

3.4 PRECISION AND ACCURACY

The validity of the data produced will be assessed for precision and accuracy. Analytical methods which will be used include gas chromatography/mass spectrometry (GC/MS), gas

chromatography, colorimetry, atomic spectroscopy, gravimetric and titrametric techniques. The following outlines the procedures for evaluating precision and accuracy, routine monitoring procedures, and corrective actions to maintain analytical quality control. All data evaluations will be consistent with NYSDEC-ASP procedures (June 2000). Data will be 100 percent compliant with NYSDEC-ASP requirements. Matrix spike and matrix spike duplicates will be collected to confirm accuracy and precision at a rate of one (1) per 20 soil and/or groundwater samples taken.

The number of duplicate, spiked and blank samples analyzed will be a minimum of one (1) duplicate for every 20 samples per each medium of groundwater and soil. The inclusion and frequency of analysis of field blanks will be on the order of one (1) per every 20 samples (soil). For the aqueous matrix field blanks will be collected at a frequency of one (1) per day. Samples to be analyzed for volatile organic compounds will be accompanied by a trip blank for each shipment and field blanks (water matrix) or field blanks (soil). An equipment blank for Per- and polyfluoroalkyl substances (PFAS) will be collected once per day per matrix, regardless of whether equipment being used is disposable, at a frequency of one (1) per 20 samples taken for both soil and groundwater.

Quality assurance audit samples will be prepared and submitted by the laboratory QA manager for each analytical procedure used. The degree of accuracy and the recovery of analyte to be expected for the analysis of QA samples and spiked samples is dependent upon the matrix, method of analysis, and compound or element being determined. The concentration of the analyte relative to the detection limit is also a major factor in determining the accuracy of the measurement. The lower end of the analytical range for most analyses is generally accepted to be five (5) times the detection limit. At or above this level, the determination and spike recoveries for metals in water samples will be expected to range from 75 to 125 percent. The recovery of organic surrogate compounds and matrix spiking compounds determined by GC/MS will be compared to the guidelines for recovery of individual compounds as established by the United States Environmental Protection Agency Contract Laboratory Program dated 7/85 or as periodically updated.

The quality of results obtained for inorganic ion and demand parameters will be assessed by comparison of QC data with laboratory control charts for each test.

4.0 SAMPLING PROCEDURES

4.1 SAMPLING PROGRAM

The sampling program for this project will include soil, groundwater and soil vapor. Soil samples will be collected from split spoon sampling or macrocore devices retrieved from soil borings. Groundwater samples will be collected from groundwater monitoring wells using low flow purging techniques. A description of this method is shown on **Table 4.1**. Soil vapor samples will be collected from vapor points screened in the vadose zone using Summa Canisters. A summary of the sample containers, bottle types, preservatives and holding times is shown on **Table 4.2.** The sampling to be conducted for this project is shown on **Table 4.3.**

4.1.1 DRILLING/SAMPLING PROCEDURES

Soil and groundwater samples will be collected by means of a soil boring program. Soil borings shall be completed using the hollow stem auger drilling methods, direct push methods, or rotary drilling methods, whichever methods are determined to be best suited to site conditions by the SESI project manager and SESI field team leader.

Soil samples will be collected from soil borings and analyzed in accordance with the NYSDEC-approved Work Plan. Monitoring wells for groundwater sample collection will be installed in select completed soil borings. Either hollow stem auger (HSA) or direct push drilling methods may be utilized for monitoring well completion.

Soil samples shall be collected continuously during drilling so that a complete soil profile is examined and described by the SESI field geologist. The sampling method employed shall be ASTM D-1586/Split Barrel Sampling using a standard 2-foot long, 2-inch outside diameter split-spoon sampler with a 140-pound hammer, in cases where HSA methods are used. Upon retrieval of the sampling barrel, the collected sample shall be placed in glass jars and labeled, stored on site (on ice in a cooler if necessary), and transmitted to the appropriate testing laboratory or storage facility. Chain-of-custody procedures will be practiced following Section 15, EPA-600/4-82-029, Handbook for Sampling and Sample Preservation of Water and Waste Waters.

A geologist or engineer will be on Site during the drilling operations to fully describe each soil sample, following the New York State Soil Description Procedure, and to retain representative portions of each sample.

The drilling contractor will be responsible for obtaining accurate and representative samples, informing the geologist of changes in drilling pressure, keeping a separate general log of soils encountered including blow counts [i.e., the number of blows from a soil sampling drive weight (140 pounds)] required to drive the split-spoon sampler in 6-inch increments and installing monitoring wells to levels directed by the supervising geologist following specifications further outlined in this protocol.

4.1.2 MONITORING WELL COMPLETION

Monitoring wells will be constructed of 0.010-inch slot size PVC well screen and riser casing. Other materials utilized for completion will be washed silica sand (Q-Rock No. 4 or approved equivalent) bentonite grout, Portland cement, and a protective steel locking well casing and cap with locks. The depth of the wells will be determined based on the depth to water, type of contaminant and field conditions encountered.

The monitoring well installation method for wells installed within unconsolidated sediments shall be to place the screen and riser assembly into the casing once the screen interval has been selected. At that time, a washed silica sand pack will be placed around the well screen if required to prevent screen plugging. If a sand pack is not warranted, the auger string will be pulled back to allow the native aquifer material to collapse 2 to 3 feet above the top of the screen. Bentonite pellets will then be added to the annulus between the casing and the inside auger to insure proper

sealing. Cement/bentonite grout will continue to be added during the extraction of the augers until the entire aquifer thickness has been sufficiently sealed off from horizontal and/or vertical flow above the screened interval. During placement of sand and bentonite pellets, frequent measurements will be made to check the height of the sand pack and thickness of bentonite layers by a weighted drop tape measure.

A bolt-down protective curb box will be installed, flush with the ground, or steel "stick-up" protective casing and secured by a Portland cement seal. The cement seal shall extend laterally at least 1 foot in all directions from the protective casing and shall slope gently away to drain water away from the well.

4.1.3 WELL DEVELOPMENT

All monitoring wells will be developed or cleared of all fine-grained materials and sediments that have settled in or around the well during installation so that the screen is transmitting representative portions of the groundwater. The development will be by one (1) of two (2) methods, pumping or bailing groundwater from the well until it yields relatively sediment-free water.

A decontaminated pump or bailer will be used and subsequently decontaminated after each use following procedures outlined in the Decontamination Protocol. Pumping or bailing will cease when the turbidity falls below 50 NTUs or until specific conductivity, pH, and temperature are stable (i.e., consecutive readings are within 10 percent with no overall upward or downward trends in measurements). Well development water will be disposed of on the ground surface at each well location.

4.1.4 DECONTAMINATION

All drilling equipment and associated tools including augers, drill rods, sampling equipment, wrenches and any other equipment or tools that have come in contact with contaminated materials will be decontaminated before any drilling on Site begins, between each well, and prior to removing any equipment from the Site. The preferred decontamination procedure will be to scrape the equipment from any residual soils and then rinse with water and Alconox®. Every effort will be made to minimize the generation of contaminated water. Any contaminated water generated will be drummed. The contaminated water drums will be disposed of at an appropriate facility after approval and sampling in accordance with the specific facility requirements.

4.1.5 PFAS SAMPLING CONSIDERATIONS

This section contains the materials limitations for Per- and polyfluoroalkyl substances sampling in accordance with the Draft NYSDEC Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (April 2023).

The groundwater samples will be analyzed for PFAS using USEPA Method 1633. Reporting limits for PFOA and PFOS will not exceed 2 nanograms per liter (ng/L). Category B deliverables and an electronic data deliverable will be completed.

PFAS are very persistent in the environment and in the human body. Due to their presence in a variety of products, persistence in the environment and very low drinking water standards, care must be used when groundwater sampling for PFAS to avoid cross contamination from the sampling equipment and personal protective equipment (PPE).

No fabric softener will be used on clothing to be worn in field. Cosmetics, moisturizers, hand cream, unauthorized sunscreen, insect repellent or other related products will not be used the morning of sampling. The field samplers will wear powder-free nitrile gloves while filling and sealing the sample bottles. The sampling equipment components and sample containers will not come in contact with material that may potentially contain PFAS such as aluminum foil, low density polyethylene (LDPE), glass or polytetrafluoroethylene (PTFE, Teflon™) materials including sample bottle cap liners with a PTFE layer. Clothing that contains PTFE material (including GORE-TEX®) or that have been waterproofed with PFAS materials will be avoided. Food and drink packaging materials will be avoided, as well.

Sampling will be performed using certified PFAS-free sampling materials such as stainless steel, high density polyethylene (HDPE), PVC, silicone, acetate or polypropylene pump and tubing. Rinse water must be laboratory-provided certified PFAS-free distilled or de-ionized water. Standard two step decontamination using Alconox® detergent and clean certified PFAS-free water rinse will be performed for equipment that does come in contact with PFAS materials.

No waterproof field books, plastic clipboards, binders, or spiral hard cover will be used for PFAS containers. No adhesives (i.e. Post-It® Notes), sharpies, or permanent markers will be used for PFAS containers. The PFAS containers will be labeled with ballpoint pens. PFAS samples will be stored in separate cooler filled with regular ice only with no chemical (blue) ice packs.

Pre-cleaned sample bottles with closures, coolers, sample labels and a chain of custody form will be provided by the laboratory.

4.2 GROUNDWATER SAMPLING PROGRAM

4.2.1 WELL EVACUATION

Prior to sampling a monitoring well, the static water level will be recorded. All well data will be recorded on a field sampling record. The wells will be sampled in accordance with the USEPA guidelines for the Low Flow Purging Sampling (LFPS). The purpose of LFPS is to collect groundwater samples from monitoring wells that are representative of ambient groundwater conditions in the aquifer. The LFPS method reduces turbidity which is needed particularly when sampling for metals.

4.2.2 SAMPLING PROCEDURE

The wells will be sampled using the USEPA LFPS technique. A flow rate of 100 ml to 250 ml per minute is used to purge the wells. Drawdown should not exceed 0.3 feet. The pump intake is lowered to the mid-point of the water column or as subsurface features such as bedrock fractures or more permeable zones warrant. At the initiation of low flow purging a water level is recorded as well as field parameters. Field parameters are then monitored every five (5) minutes during low flow purging using a flow through cell. When three (3) consecutive measurements of pH differ by 0.1 units or less, with ORP within 10 mv or less, turbidity varies 10 percent or less, conductivity differs by 3 percent or less and dissolved oxygen by 10 percent or less, sampling may begin. Flow through cells are used so continuous real time readings are made. When the parameters stabilize the flow through cell is disconnected and sample bottles are filled directly from the tubing. Low-flow sampling procedures are summarized on **Table 4.1.**

4.3 SOIL VAPOR SAMPLING

Soil vapor sampling will be conducted in accordance with NYSDOH Guidance for Evaluating Soil Vapor Intrusion in New York State (October 2006 and the subsequent May 2017 updates to the Soil Vapor/Indoor Air Decision Matrices). Soil vapor samples will be collected in the vadose zone from shallow (five [5] feet) vapor points. Each vapor point will be installed in a shallow boring drilled either by hand-operated equipment (e.g. hand auger or percussion hammer drill), or by a small truck-mounted drill rig. Drilling equipment used shall be based on soil conditions, and the method that provides the most practical approach.

Each vapor point will consist of an inert sampling tube (polyethylene, stainless steel, or Teflon®) with a six (6)-inch screened section at the bottom through which soil vapors can be sampled. The screen slot size will be 0.0075 inches. A sampling zone will be created around the screened section by backfilling with one (1) to two (2) feet of porous coarse sand or glass beads, and at least three (3) feet of bentonite will be placed above the porous sampling zone to form a seal from the surface. Native clean soil will be packed around the remaining annulus to the ground surface.

The regulator will be set to collect a soil vapor sample at a flow rate of less than 0.2 liters per minute. After the summa canister is filled, the valve will be closed.

Each canister will be listed according to a specific sample I.D. on a chain of custody form. Sample canisters will be delivered to the laboratory within 24 hours and analyzed for VOCs by method TO-15. The detection limit for VOCs will be 1 µg/m3 or less

.

The soil vapor sampling effort will include the use of inert helium tracer gas to verify that the soil vapor samples are not diluted by ambient air. The atmosphere around the sampling tube will be enriched with the tracer gas, and the soil vapor sample will be collected in the presence of the enriched tracer atmosphere. This will be accomplished by placing an inverted plastic pail over the sampling point and filling the pail with the tracer gas via a small tube penetrating the site of the pail. Refer to NYSDOH Guidance for Evaluating Indoor Air Intrusion in New York State (October 2006).

Weather conditions in the 48 hours prior to the test, and during the test, will be noted, including average wind speed, precipitation, temperature, and barometric pressure.

4.4 SAMPLE PRESERVATION AND SHIPMENT

Since all bottles will contain the necessary preservatives as shown in **Table 4.2**, they need only be filled. The 40 ml VOA vials must be filled brim full with no air bubbles. The other bottles should be filled to within about one (1) inch from the top.

The bottles will be sent from the laboratory in coolers which will be organized on a per site basis. Following sample collection, the bottles should be placed on ice in the shipping cooler. The samples will be cooled to 4°C, but not frozen.

Final packing and shipment of coolers will be performed in accordance with guidelines outlined in the ASP.

5.0 SAMPLE CUSTODY

The program for sample custody and sample transfer is in compliance with the NYSDEC-ASP, as periodically updated. If samples may be needed for legal purposes, chain-of-custody procedures, as defined by NEIC Policies and Procedures (USEPA-330/9-78-001-R, Revised June 1988) will be used. Sample chain-of-custody is initiated by the laboratory with selection and preparation of the sample containers. To reduce the chance for error, the number of personnel handling the samples should be minimized.

5.1 FIELD SAMPLE CUSTODY

A chain-of-custody record accompanies the samples from initial sample container selection and preparation at the laboratory, shipment to the field for sample containment and preservation, and return to the laboratory. Two (2) copies of this record follow the samples to the laboratory. The laboratory maintains one (1) file copy and the completed original is returned to the site inspection team. Individual sample containers provided by the laboratory are used for shipping samples. The shipping containers are insulated and ice is used to maintain samples at approximately 4°C until samples are returned and in the custody of the laboratory. All sample bottles within each shipping container are individually labeled and controlled. Samples are to be shipped to the laboratory within 24 to 48 hours of the day of collection depending on parameter holding times.

Each sample shipping container is assigned a unique identification number by the laboratory. This number is recorded on the chain-of-custody record and is marked with indelible ink on the outside of the shipping container. The field sampler will indicate the sample designation/location number in the space provided on the appropriate chain-of-custody form for each sample collected. The shipping container is closed and a seal provided by the laboratory is affixed to the latch. This seal must be broken to open the container, and this indicates possible tampering if the seal is broken before receipt at the laboratory. The laboratory will contact the site investigation team leader and the sample will not be analyzed if tampering is apparent.

5.2 LABORATORY SAMPLE CUSTODY

The site investigation team leader or Project Quality Assurance Officer notifies the laboratory of upcoming field sampling activities and the subsequent transfer of samples to the laboratory. This notification will include information concerning the number and type of samples to be shipped as well as the anticipated date of arrival.

The laboratory sample program meets the following criteria:

- The laboratory has designated a sample custodian who is responsible for maintaining custody of the samples and for maintaining all associated records documenting that custody.
- Upon receipt of the samples, the custodian will check the original chain-of-custody documents and compare them with the labeled contents of each sample container for correctness and traceability. The sample custodian signs the chain-of-custody record and records the date and time received.
- Care is exercised to annotate any labeling or descriptive errors. In the event of discrepant documentation, the laboratory will immediately contact the site investigation team leader as part of the corrective action process. A qualitative assessment of each sample container is performed to note any anomalies, such as broken or leaking bottles.

This assessment is recorded as part of the incoming chain-of-custody procedure:

1. The samples are stored in a secured area at a temperature of approximately 4°C until analyses are to commence.
2. A laboratory chain-of-custody record accompanies the sample or sample fraction through final analysis for control.
3. A copy of the chain-of-custody form will accompany the laboratory report and will become a permanent part of the project records.

5.3 FINAL EVIDENCE FILES

Final evidence files include all originals of laboratory reports and are maintained under documented control in a secure area.

A sample or an evidence file is under custody if:

- It is in your possession; it is in your view, after being in your possession.
- It was in your possession and you placed it in a secure area.
- It is in a designated secure area.

6.0 CALIBRATION PROCEDURES

Instruments and equipment used to gather, generate or measure environmental data will be calibrated with sufficient frequency and in such a manner that accuracy and reproducibility of results are consistent with the appropriate manufacturer's specifications or project specific requirements. The procedures for instrument calibration, calibration verification, and the frequency of calibrations are described in the ASP. The calibration of instruments used for the determination of metals will be as described in the appropriate CLP standard operating procedures.

Calibration of other instruments required for measurements associated with these analyses will be in accordance with the manufacturer's recommendations and the standard operating procedures of the laboratory.

7.0 ANALYTICAL PROCEDURES

Analytical procedures shall conform to the most recent revision of the NYSDEC-ASP (June 2005) and are summarized on **Table 7.1.** In the absence of USEPA or NYSDEC guidelines, appropriate procedures shall be submitted for approval by NYSDEC prior to use.

The procedures for the sample preparation and analysis for organic compounds are as specified in the NYSDEC-ASP. Analytical cleanups are mandatory where matrix interferences are noted. No sample shall be diluted any more than a factor of five. The sample shall be either re-extracted, re-sonicated, re-stream distilled, etc. or be subjected to any one analytical cleanup noted in SW846 or a combination thereof. The analytical laboratory shall expend such effort and discretion to demonstrate good laboratory practice and demonstrate an attempt to best achieve the method detection limit.

7.1 VOLATILE ORGANICS

For the analysis of water samples for Target Compound List VOCs, no sample preparation is required. The analytical procedure for volatiles is detailed in NYSDEC-ASP (Volume I, Section D-I). A measured portion of the sample is placed in the purge and trap apparatus and the sample analysis is performed by gas chromatography/mass spectrometry for the first round. USEPA Method 8260 will be used, plus tentatively identified compounds (TICs). USEPA Methods 8010 or 8020 (gas chromatography with different detectors) will be used if subsequent rounds with lower limits of detection are warranted.

7.2 SEMI-VOLATILE ORGANIC COMPUNDS

The extraction and analytical procedures used for preparation of water, soil and sediment samples for the analysis of the TCL semi-volatile organic compounds are described in NYSDEC-ASP Volume I, Section D-III. USEPA Method 8270 will be used, plus TICs.

Instrument calibration, compound identification, and quantitation are performed as described in Section 6 of this document and in the NYSDEC-ASP.

7.3 PESTICIDE AND PCB COMPOUNDS

The sample preservation procedures for gas chromatography for pesticides and polychlorinated biphenyls (PCBs) will be as described in the NYSDEC-ASP methods (Section D-IV). The analysis of standard mixes, blanks and spiked samples will be performed at the prescribed frequency with adherence to the 72-hour requirement described in the method.

7.4 METALS

Water, soil and waste samples will be analyzed for the metals listed in Table 7.1. The detection limits for these metals are as specified in the NYSDEC-ASP, Section D-V. The instrument detection limits will be determined using calibration standards and procedures specified in the NYSDEC-ASP. The detection limits for individual samples may be higher due to the sample matrix. The procedures for these analyses will be as described in the NYSDEC-ASP.

The analyses for metals will be performed by atomic absorption spectroscopy (AAS) or inductively-coupled plasma emission spectroscopy (ICPES), as specified in the ASP with regard to AAS flame analysis.

7.5 PER- AND POLYFLUOROALKYL SUBSTANCES

The NYSDEC has developed a list of 40 PFAS Analytes List on Table 7.1 for remedial programs. These are:

- Perfluorobutanesulfonic acid
- Perfluoropentanesulfonic acid
- Perfluorohexanesulfonic acid
- Perfluoroheptanesulfonic acid
- Perfluorooctanesulfonic acid
- Perfluorononanesulfonic acid
- Perfluorodecanesulfonic acid
- Perfluorododecanesulfonic acid
- Perfluorobutanoic acid
- Perfluoropentanoic acid
- Perfluorohexanoic acid
- Perfluoroheptanoic acid
- Perfluorooctanoic acid

- Perfluorononanoic acid
- Perfluorodecanoic acid
- Perfluoroundecanoic acid
- Perfluorododecanoic acid
- Perfluorotridecanoic acid
- Perfluorotetradecanoic acid
- Perfluorohexadecanoic acid
- Hexafluoropropylene oxide dimer acid
- 4,8-Dioxa-3H-perfluorononanoic acid
- Perfluoro-3-methoxypropanoic acid
- Perfluoro-4-methoxybutanoic acid
- Nonafluoro-3,6-dioxaheptanoic acid
- 4:2 Fluorotelomer sulfonic acid
- 6:2 Fluorotelomer sulfonate
- 8:2 Fluorotelomer sulfonate
- 3:3 Fluorotelomer carboxylic acid
- 5:3 Fluorotelomer carboxylic acid
- 7:3 Fluorotelomer carboxylic acid
- Perfluroroctane sulfonamide
- N-methylperfluorooctane sulfonamide
- N-ethylperfluorooctane sulfonamide
- N-methyl perfluorooctanesulfonamidoacetic acid
- N-ethyl perfluorooctanesulfonamidoacetic acid
- N-methylperfluorooctane sulfonamidoethanol
- N-ethylperfluorooctane sulfonamidoethanol
- 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (F-53B Major)
- 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor)
- Perfluoro(2-ethoxyethane) sulfonic acid

Currently, ELAP does not offer certification for PFAS compounds in matrices other than finished drinking water. Per the NYSDEC June 2019 memo on emergent contaminant sampling, the analytical procedure for soil and groundwater sampling of PFAS is Modified EPA Method 1633.

The reporting limit for PFAS in soil samples is 0.5 ug/kg. Reporting limits for perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS) in groundwater should not exceed 2 ng/L.

7.6 SITE SPECIFICITY OF ANALYSES

Work plans prepared for remedial actions for sites contain recommendations for the chemical parameters to be determined for each site. Thus, some or all of the referenced methods will apply to the analysis of samples collected at the individual waste sites. Analyses of TCL analytes will be performed on all samples.

To ensure that the field sampling and laboratory analytical practices are acceptable, the data associated with the samples will be validated by a third party (in accordance with requirements of DER-10). The validation approach and results will be presented in a data usability summary report (DUSR) to be included in the Report.

TABLES

TABLE 4.1--SAMPLING PROCEDURE FOR MONITORING WELLS USING LOW-STESS (LOW-FLOW) METHODS

Step	Description	Details
1	Record initial static water level.	**Device:** electric contact probe accurate to the nearest 0.1 foot.
2	Lower sampling device into well. Slowly lower the pump, safety cable, tubing and electrical lines into the well to the depth specified for that well.	Pump intake must be no less than 2 feet from the bottom of the well to prevent disturbance and resuspension of sediments which may be at the bottom of the well.
3	Measure water level again: Before starting the pump, measure the water level again with the pump in the well. Leave the water level measuring device in the well.	
4	Purge Well	Start pumping the well at 200 to 500 milliliters per minute (ml/min). The water level should be monitored approximately every five minutes. Ideally, a steady flow rate should be maintained that results in a stabilized water level (drawdown of 0.3 ft or less). Pumping rates should, if needed, be reduced to the minimum capabilities of the pump to ensure stabilization of the water level. As noted above, care should be taken to maintain pump suction and to avoid entrainment of air in the tubing.
5	Record each adjustment made to the pumping rate and the water level measured immediately after each adjustment.	
6	Monitor Indicator Parameters	1. During purging of the well, monitor and record the field indicator parameters (turbidity, temperature, specific conductance, pH, Eh, and DO) approximately every five minutes. The well is considered stabilized and ready for sample collection when the indicator parameters have stabilized for three consecutive

Step	Description	Details
		readings as follows (Puls and Barcelona, 1996): a. 0.1 for pH b. 3% for specific conductance (conductivity) c. 10 mv for redox potential d. 10% for DO and turbidity
7	The pump must not be removed from the well between purging and sampling.	Dissolved oxygen and turbidity usually require the longest time to achieve stabilization.
8	Collect Samples	Collect samples at a flow rate between 100 and 250 ml/min and such that drawdown of the water level within the well does not exceed the maximum allowable drawdown of 0.3 ft. VOC samples must be collected first and directly into sample containers. All sample containers should be filled with minimal turbulence by allowing the ground water to flow from the tubing gently down the inside of the container.
9	Ground water samples to be analyzed for volatile organic compounds (VOCs) require pH adjustment. The appropriate EPA Program Guidance should be consulted to determine whether pH adjustment is necessary.	If pH adjustment is necessary for VOC sample preservation, the amount of acid to be added to each sample vial prior to sampling should be determined, drop by drop, on a separate and equal volume of water (e.g., 40 ml). Groundwater purged from the well prior to sampling can be used for this purpose.
10	Remove Pump and Tubing	After collection of the samples, the tubing, unless permanently installed, must be properly discarded or dedicated to the

Step	Description	Details
		well for resampling by hanging the tubing inside the well.
11	Measure and record well depth.	
12	Close and lock the well.	
13	Samples are capped, labeled and placed in laboratory coolers with ice packs or bagged ice.	
14	All equipment is cleaned with successive rinses of pesticide-grade methanol and distilled water.	Dedicated line is disposed of or left at well site.
15	Equipment/wash blanks are collected when non-dedicated sampling equipment is used.	
16	Chain-of-custody forms are completed in triplicate.	The original and one carbon copy are put into a zip-lock bag and placed into the cooler. The original will be returned following sample analysis. A second carbon copy is kept on file.
17	Cooler is sealed with strapping tape and chain-of-custody seals to assure integrity and to prevent tampering of sample.	

TABLE 4.2--SAMPLE CONTAINERIZATION

PARAMETER & ANALYTICAL METHOD	NO.	BOTTLE TYPE	PRESERVATIVE[1]	HOLDING TIME
Aqueous Samples				
VOCs – USEPA 8260C	3	40 mL, glass vial with septum cap	Hydrochloric Acid to pH <2 Ice to 4°C	14 days
SVOCs (BNAs) and 1,4-Dioxane – USEPA 8270 SIM	2	1-liter amber glass bottle	Ice to 4°C	7 days (until extraction) 40 days (extracted)
Pesticides – USEPA 8081B	2	1-liter amber glass bottle	Ice to 4°C	7 days (until extraction) 40 days (extracted)
PCBs – USEPA 8082A	2	1-liter amber glass bottle	Ice to 4°C	7 days (until extraction) 40 days (extracted)
Metals[2]	1	1-liter, plastic bottle	Nitric acid to pH <2 NaOH for cyanide Ice to 4°C	180 days Cyanide: 14 days Mercury: 28 days
Cyanide – USEPA 9010C/9012B	1	1-liter, plastic	Sodium Hydroxide to pH >12 Ice to 4°C	14 days
PFAS Compounds – USEPA Modified Method 537	2	500 ml HDPE or Polypropylene with non-Teflon lid	None	14 days
Soil, Sediment, Solid Waste Samples:				
VOCs – USEPA 8260C	3	5-gram EnCore samplers	Chilled to 0 - 6°C	14 days
SVOCs (BNAs) and 1,4-Dioxane – USEPA 8270D SIM if RL cannot be reached	1	4-oz. glass jar with Teflon lid	Chilled to 0 - 6°C	14 days (until extraction, 40 days extracted)

PARAMETER & ANALYTICAL METHOD	NO.	BOTTLE TYPE	PRESERVATIVE(1)	HOLDING TIME
Pesticides – USEPA 8081B	1	4-oz. glass jar with Teflon lid	Chilled to 0 - 6°C	14 days (until extraction) 40 days (extracted)
PCBs – USEPA 8082A	1	4-oz. glass jar with Teflon lid	Chilled to 0 - 6°C	None
Metals(3)	1	4-oz. glass jar with Teflon lid	Chilled to 0 - 6°C	180 days Cyanide: 14 days Mercury: 28 days
PFAS Compounds – USEPA Modified Method 537	2	500 ml HDPE or Polypropylene with non-Teflon lid	None	28 days
Soil Vapor / Indoor Air Samples:				
VOCs – USEPA TO-15	1	Summa Canister	None	30 days

(1) All samples will be preserved with ice during collection and shipment.

(2) Metals refers to the 24 metals and cyanide in the Target Compound List (NYSDEC-CLP 11/87). Metals will be analyzed by Method 6020B, 7470A for mercury, and 9010C/9012B for cyanide

(3) Metals refers to the 24 metals and cyanide in the Target Compound List (NYSDEC-CLP 11/87). Metals will be analyzed by Method 6010D, 7471B for mercury, and 9010C/9012B for cyanide

(4) A complete list of compounds is provided on Table 7.1.

Table 4.3--Sampling Overview

Matrix	Samples Collected	Field and Trip Blanks	Matrix Spike Matrix Spike Duplicates (number and type)	Duplicate Samples (number and type)
Groundwater	None Anticipated	N/A	N/A	N/A
Soil	Approx. 71-75 (inside building footprint) Approx. 33-35 outside building footprint	1 per 20 samples or 1 per day	1 per 20 samples	1 duplicate for every 20 samples
Soil Vapor*	None Anticipated	N/A	N/A	N/A

***** If soil vapor samples are to be collected 1 ambient air sample will be taken per 20 samples

TABLE 7.1–CONTRACT-REQUIRED QUANTITATION LEVELS AND ANALYTICAL METHODS FOR ASP INORGANICS, ASP VOLATILES, ASP SEMI-VOLATILES, ASP PESTICIDES, PCBs, AND PFAS

Target Analyte List (TAL) and Contract-Required Quantitation Limit

SECTION 1 - ASP INORGANICS Method: NYSDEC-ASP-91-4					
METALS		CONTRACT-REQUIRED DETECTION LEVEL* (µg/L)	METALS		CONTRACT-REQUIRED DETECTION LEVEL* (µg/L)
1.	Aluminum	200	13.	Magnesium	5,000
2.	Antimony	60	14.	Manganese	15
3.	Arsenic	15	15.	Mercury	0.2
4.	Barium	200	16.	Nickel	40
5.	Beryllium	5	17.	Potassium	5,000
6.	Cadmium	5	18.	Selenium	35
7.	Calcium	5,000	19.	Silver	10
8.	Chromium	10	20.	Sodium	5,000
9.	Cobalt	50	21.	Thallium	25
10.	Copper	25	22.	Vanadium	50
11.	Iron	100	23.	Zinc	60
12.	Lead	10	24.	Cyanide	10

Target Compound List (TCL) and Contract-Required Quantitation Limit

SECTION 2 – ASP ORGANICS (VOLATILES) Method: NYSDEC-ASP-91-1					
	VOLATILE	**CONTRACT-REQUIRED QUANTITATION LIMIT** (µg/L)**		**VOLATILE**	**CONTRACT-REQUIRED QUANTITATION LIMIT** (µg/L)**
1.	Chloromethane	5.0	18.	1,2-Dichloropropane	5.0
2.	Bromomethane	5.0	19.	cis-1,3-Dichloropropene	5.0
3.	Vinyl Chloride	5.0	20.	Trichloroethene	5.0
4.	Chloroethane	5.0	21.	Dibromochloromethane	5.0
5.	Methylene Chloride	5.0	22.	1,1,2-Trichloroethane	5.0
6.	Acetone	10.0	23.	Benzene	5.0
7.	Carbon Disulfide	5.0	24.	Trans-1.3-Dichloropropene	5.0
8.	1,1-Dichloroethylene	5.0	25.	Bromoform	5.0
9.	1,1-Dichloroethane	5.0	26.	2-Hexanone	10.0
10.	1,2-Dichloroethylene (total)	5.0	27.	4-Methyl, 1,2-Pentanone	10.0
11.	Chloroform	5.0	28.	Tetrachloroethylene	5.0
12.	1,2-Dichloroethane	5.0	29.	Toluene	5.0
13.	2-Butanone	10.0	30.	Chlorobenzene	5.0
14.	1,1,1-Trichloroethane	5.0	31.	Ethylbenzene	5.0
15.	Carbon Tetrachloride	5.0	32.	Styrene	5.0
16.	Bromodichloromethane	5.0	33.	Total Xylenes	5.0
17.	1,1,2,2-Tetrachloroethane	5.0			

SECTION 3 - ASP ORGANICS (SEMI-VOLATILES) Method: NYSDEC-ASP-91-2					
SEMI-VOLATILE		CONTRACT-REQUIRED QUANTITATION LIMIT (µg/l)	SEMI-VOLATILE		CONTRACT-REQUIRED QUANTITATION LIMIT (µg/l)
1.	Phenol	5.0	33.	Acenaphthene	5.0
2.	Bis(2-chloroethyl)ether	5.0	34.	2,4-Dinitrophenol	10.0
3.	2-Chlorophenol	5.0	35.	4-Nitrophenol	10.0
4.	1,3-Dichlorobenzene	5.0	36.	Dibenzofuran	5.0
5.	1,4-Dichlorobenzene	5.0	37.	Dinitrotoluene	5.0
6.	1,2-Dichlorobenzene	5.0	38.	Diethylphthalate	5.0
7.	2-Methylphenol	5.0	39.	4-Chlorophenyl phenyl ether	5.0
8.	2,2'oxybis(1-Chloropropane)	5.0	40.	Fluorene	5.0
9.	4-Methylphenol	5.0	41.	4-Nitroanile	10.0
10.	N-Nitroso-dipropylamine	5.0	42.	4,6-Dinitro-2-methylphenol	10.0
11.	Hexachloroethane	5.0	43.	N-nitrosodiphenyl amine	5.0
12.	Nitrobenzene	5.0	44.	4-Bromophenyl phenyl ether	5.0
13.	Isophorone	5.0	45.	Hexachlorobenzene	5.0
14.	2-Nitrophenol	5.0	46.	Pentachlorophenol	10.0
15.	2,4-Dimethylphenol	5.0	47.	Phenanthrene	5.0
16.	Bis(2-Chloroethoxy) methane	5.0	48.	Anthracene	5.0
17.	2,4-Dichlorophenol	5.0	49.	Carbazole	5.0
18.	1,2,4-Trichlorobenzene	5.0	50.	Di-n-butyl phthalate	5.0
19.	Naphthalene	5.0	51.	Fluoranthene	5.0
20.	4-Chloroaniline	5.0	52.	Pyrene	5.0
21.	Hexachlorobutadiene	5.0	53.	Butyl benzyl phthalate	5.0

SECTION 3 - ASP ORGANICS (SEMI-VOLATILES) Method: NYSDEC-ASP-91-2					
SEMI-VOLATILE		CONTRACT-REQUIRED QUANTITATION LIMIT (µg/l)	SEMI-VOLATILE		CONTRACT-REQUIRED QUANTITATION LIMIT (µg/l)
22.	4-Chloro-3-methylphenol	5.0	54.	3,3'-Dichloro benzidine	5.0
23.	2-Methylnaphthalene	5.0	55.	Benz(a)anthracene	5.0
24.	Hexachlorocyclopentadiene	5.0	56.	Chrysene	5.0
25.	2,4,6-Trichlorophenol	5.0	57.	Bis(2-ethylhexyl) phthalate	5.0
26.	2,4,5-Trichlorophenol	10.0	58.	Di-n-octyl phthalate	5.0
27.	2-Chloronapthalene	5.0	59.	Benzo(b)fluoranthene	5.0
28.	2-Nitroananiline	10.0	60.	Benzo(k)fluoranthene	5.0
29.	Dimethyl phthalate	5.0	61.	Benzo(a)pyrene	5.0
30.	Acenaphthylene	5.0	62.	Indeno(1,2,3-cd) pyrene	5.0
31.	2,6-Dinitrotoluene	5.0	63.	Dibenz(a,h) anthracene	5.0
32.	3-Nitroaniline	10.0	64.	Benzo(g,h,i)perylene	5.0

SECTION 3 - ASP ORGANICS (PESTICIDES/PCBS) Method: NYSDEC-ASP-91-3			
PESTICIDE/PCB	**CONTRACT-REQUIRED QUANTITATION LIMIT (µg/l)**	**PESTICIDE/PCB**	**CONTRACT-REQUIRED QUANTITATION LIMIT (µg/l)**
1. Alpha-BHC	0.05	15. 4,4'-DDT	0.10
2. Beta-BHC	0.05	16. Methoxychlor	0.5
3. Delta-BHC	0.05	17. Endrin ketone	0.10
4. Gamma-BHC (lindane)	0.05	18. Endrin aldehyde	0.10
5. Heptachlor	0.05	19. Alpha-Chlordane	0.05
6. Aldrin	0.05	20. Gamma-Chlordane	0.05
7. Heptachlor epoxide	0.05	21. Toxaphene	5.0
8. Endosulfan I	0.05	22. AROCHLOR-1016	1.0
9. Dieldrin	0.10	23. AROCHLOR-1221	1.0
10. 4,4'-DDE	0.10	24. AROCHLOR-1232	1.0
11. Endrin	0.10	25. AROCHLOR-1242	1.0
12. Endosulfan II	0.10	26. AROCHLOR-1248	1.0
13. 4,4'-DDD	0.10	27. AROCHLOR-1254	1.0
14. Endosulfan sulfate	0.10	28. AROCHLOR-1260	1.0

*Matrix: groundwater. For soil matrix, multiply CRDL by 100.

**Quantitation limit for medium-level soil is 1,200 µg/kg (wet weight basis).

PFAS Compound List and Reporting and Method Detection Limits for Soil and Groundwater

Method: EPA 1633 by LC-MS/MS			
	PFAS	**Reporting Limit — Groundwater (ng/l)**	**Method Detection Limit — Groundwater (ng/l)**
1	Perfluorobutanesulfonic acid (PFBS)	1.6	0.245
2	Perfluoropentanesulfonic acid (PFPeS)	1.6	0.204
3	Perfluorohexanesulfonic acid (PFHxS)	1.6	0.217
4	Perfluoroheptanesulfonic acid (PFHpS)	1.6	0.137
5	Perfluorooctanesulfonic acid (PFOS)	1.6	0.327
6	Perfluorononanesulfonic acid (PFNS)	1.6	0.303
7	Perfluorodecanesulfonic acid (PFDS)	1.6	0.334
8	Perfluorododecanesulfonic acid (PFDoS)	1.6	0.179
9	Perfluorobutanoic acid (PFBA)	6.4	0.330
10	Perfluoropentanoic acid (PFPeA)	3.2	0.196
11	Perfluorohexanoic acid (PFHxA)	1.6	0.318
12	Perfluoroheptanoic acid (PFHpA)	1.6	0.221
13	Perfluorooctanoic acid (PFOA)	1.6	0.302
14	Perfluorononanoic acid (PFNA)	1.6	0.221
15	Perfluorodecanoic acid (PFDA)	1.6	0.333
16	Perfluoroundecanoic acid (PFUnA)	1.6	0.264
17	Perfluorododecanoic acid (PFDoA)	1.6	0.379
18	Perfluorotridecanoic acid (PFTrDA)	1.6	0.238
19	Perfluorotetradecanoic acid (PFTeDA)	1.6	0.264
20	Hexafluoropropylene oxide dimer acid (HFPO-DA)	6.4	0.406

Method: EPA 1633 by LC-MS/MS			
21	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	6.4	0.779
22	Perfluoro-3-methoxypropanoic acid (PFMPA)	3.2	0.177
23	Perfluoro-4-methoxybutanoic acid (PFMBA)	3.2	0.117
24	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.2	1.384
25	4:2 Fluorotelomer sulfonic acid (4:2-FTS)	6.4	2.281
26	6:2 Fluorotelomer sulfonic acid (6:2-FTS)	6.4	3.973
27	8:2 Fluorotelomer sulfonic acid (8:2-FTS)	6.4	1.566
28	3:3 Fluorotelomer carboxylic acid (3:3 FTCA)	8.0	0.721
29	5:3 Fluorotelomer carboxylic acid (5:3 FTCA)	40	5.066
30	7:3 Fluorotelomer carboxylic acid (7:3 FTCA)	40	5.942
31	Perfluorooctane sulfonamide (PFOSA)	1.6	0.227
32	N-methylperfluorooctane sulfonamide (NMeFOSA)	1.6	0.196
33	N-ethylperfluorooctane sulfonamide (NEtFOSA)	1.6	0.585
34	N-methylperfluorooctane sulfonamidoacetic acid (N-MeFOSAA)	1.6	0.586
35	N-ethylperfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	1.6	0.324
36	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	16	1.191
37	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	16	1.022
38	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (F-53B Major) (9CL-PF3ONS)	6.4	0.871
39	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor) (11CL-PF3OUDS)	6.4	0.819
40	Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)	3.2	0.137
41	Perfluorohexadecanoic acid (PFHxDA)[1]	~	~
	1,4-dioxane		

Method: EPA 1633 by LC-MS/MS			
	PFAS	**Reporting Limit — Soil (ng/g)**	**Method Detection Limit — Soil (ng/g)**
1	Perfluorobutanesulfonic acid (PFBS)	0.2	0.014
2	Perfluoropentanesulfonic acid (PFPeS)	0.2	0.015
3	Perfluorohexanesulfonic acid (PFHxS)	0.2	0.018
4	Perfluoroheptanesulfonic acid (PFHpS)	0.2	0.057
5	Perfluorooctanesulfonic acid (PFOS)	0.2	0.067
6	Perfluorononanesulfonic acid (PFNS)	0.2	0.046
7	Perfluorodecanesulfonic acid (PFDS)	0.2	0.040
8	Perfluorododecanesulfonic acid (PFDoS)	0.2	0.038
9	Perfluorobutanoic acid (PFBA)	0.8	0.401
10	Perfluoropentanoic acid (PFPeA)	0.4	0.021
11	Perfluorohexanoic acid (PFHxA)	0.2	0.020
12	Perfluoroheptanoic acid (PFHpA)	0.2	0.029
13	Perfluorooctanoic acid (PFOA)	0.2	0.037
14	Perfluorononanoic acid (PFNA)	0.2	0.086
15	Perfluorodecanoic acid (PFDA)	0.2	0.031
16	Perfluoroundecanoic acid (PFUnA)	0.2	0.033
17	Perfluorododecanoic acid (PFDoA)	0.2	0.059
18	Perfluorotridecanoic acid (PFTrDA)	0.2	0.038
19	Perfluorotetradecanoic acid (PFTeDA)	0.2	0.032
20	Hexafluoropropylene oxide dimer acid (HFPO-DA)	0.8	0.136
21	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.8	0.057
22	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.4	0.033

Method: EPA 1633 by LC-MS/MS			
23	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.4	0.029
24	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.4	0.084
25	4:2 Fluorotelomer sulfonic acid (4:2-FTS)	0.8	0.282
26	6:2 Fluorotelomer sulfonic acid (6:2-FTS)	0.8	0.116
27	8:2 Fluorotelomer sulfonic acid (8:2-FTS)	0.8	0.225
28	3:3 Fluorotelomer carboxylic acid (3:3 FTCA)	1.0	0.060
29	5:3 Fluorotelomer carboxylic acid (5:3 FTCA)	5.0	0.363
30	7:3 Fluorotelomer carboxylic acid (7:3 FTCA)	5.0	0.308
31	Perfluorooctane sulfonamide (PFOSA)	0.2	0.068
32	N-methylperfluorooctane sulfonamide (NMeFOSA)	0.2	0.049
33	N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.2	0.038
34	N-methylperfluorooctane sulfonamidoacetic acid (N-MeFOSAA)	0.2	0.030
35	N-ethylperfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	0.2	0.044
36	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	2.0	0.203
37	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	2.0	0.247
38	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (F-53B Major) (9CL-PF3ONS)	0.8	0.038
39	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor) (11CL-PF3OUdS)	0.8	0.071
40	Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)	0.4	0.018
41	Perfluorohexadecanoic acid (PFHxDA)[1]	~	~

Source: EPA Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous, Solid, Biosolids, and Tissue Samples by LC-MS/MS, Second Draft Method 1633, November 2022

Data for this table are derived from the single-laboratory validation study and are only provided as examples for this draft method. The data will be updated to reflect the interlaboratory study results in a subsequent revision. Therefore, these criteria will change after interlaboratory validation.

[1] This compound was not listed in the EPA Method 1633 2nd draft and currently no known values exist

implemented and are successful in reducing the total particulate concentration to 150 mcg/m^3 or less at the monitoring point.

- Depending upon the nature of contamination and remedial activities, other parameters (e.g., explosivity, oxygen, hydrogen sulfide, carbon monoxide) may also need to be monitored. Response levels and actions should be pre-determined, as necessary, for each site.

Appendix G:

Community Air Monitoring Plan

SESI
CONSULTING ENGINEERS

Geotechnical
Environmental
Site Civil

959 Route 46E, Fl 3, Ste 300
Parsippany, NJ 07054
973.808.9050
www.sesi.org

Community Air Monitoring Plan

For

EAST POST ROAD GARAGE SITE

WESTCHESTER COUNTY, WHITE PLAINS, NEW YORK

Prepared for:

LC Post Road Garage LLC, LC Post Garage Holdings LLC, 34 EPR, LLC, and East Post Road, LLC

May 2026

SESI Project No:
14228

Table of Contents

LIST OF ACRONYMS ..... **i**

1.0 INTRODUCTION **1**

2.0 OBJECTIVES **1**

3.0 METHODS **1**

3.1 CONTINUOUS MONITORING 1

3.2 PERIODIC MONITORING 1

4.0 VOC MONITORING, RESPONSE LEVELS, AND ACTIONS **2**

5.0 PARTICULATE MONITORING, RESPONSE LEVELS, AND ACTIONS **2**

6.0 SPECIAL REQUIREMENTS FOR WORK WITHIN 20 FEET OF POTENTIALLY EXPOSED INDIVIDUAL STRUCTURES **3**

LIST OF ACRONYMS

Acronym	Definition
CAMP	Community Air Monitoring Plan
mcg/m^3	micrograms per cubic meter
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PID	Photoionization Detector
PM-10	Less than 10 micrometers
ppm	Parts Per Million
RI	Remedial Investigation
RAWP	Remedial Action Work Plan
VOC	Volatile Organic Compound
WPHA	White Plains Housing Authority

1.0 INTRODUCTION

This document presents a Community Air Monitoring Plan (CAMP) for the Remedial Action Work Plan (RAWP) for the proposed development known as the East Post Road Garage Site, identified as 130.27-2-5, 130.27-2-4, 130.27-2-2.1, a portion of 125.83-7-1.1, and the discontinued portion of Brookfield Street north of East Post Road on the White Plains Tax Map(the "Site").

The Site, which is the subject of this RAWP, is approximately 2.32-acres. The Site has been developed since the early 1900s and historically has been developed with residences, a gasoline service station, storefronts, an auto repair facility and a parking lot. The Site is bounded by the WPHA Winbrook affordable residential apartment buildings to the north, East Post Road followed by White Plains Hospital to the south, Winchester Street followed by commercial buildings to the east, and mixed-use buildings with ground-level retail and upper-level residential apartments to the west.

2.0 OBJECTIVES

The objective of the CAMP is to provide a measure of protection for the downwind community from potential airborne contaminant releases that may arise during all ground intrusive activities, and potentially contaminated soil and material handling and staging. In addition, the CAMP is intended to ensure that dust and contaminants are not leaving the work zone**.**

3.0 METHODS

The CAMP will include continuous monitoring for particulate matter (e.g. airborne "dust") and volatile organic compounds (VOCs) during the planned remedial excavation and construction activities. Any CAMP exceedances will be reported to the New York State Department of Environmental Conservation (NYSDEC) and New York State Department of Health (NYSDOH) on the same business day and as soon as possible. Notification of the exceedance will be sent via email along with the reason for the exceedance, the measure(s) taken to address the exceedance, and if the exceedance was resolved.

3.1 CONTINUOUS MONITORING

Continuous monitoring for particulates and VOCs will be conducted during all ground intrusive activities including building demolition activities, site excavation and handling, support of excavation activities, test pitting or trenching, and the installation of soil borings (including waste characterization sampling) or monitoring wells.

3.2 PERIODIC MONITORING

Periodic monitoring for VOCs will be conducted for all non-intrusive activities and during the demolition of contaminated or potentially contaminated structures. Ground intrusive activities include, but are not limited to, the collection of soil and sediment samples or the collection of groundwater samples from existing monitoring wells. "Periodic" monitoring during sample collection consists of taking a reading upon arrival at a sample location, monitoring while opening a well cap or overturning soil, monitoring during well baling/purging, and taking a reading prior to leaving a sample location. In some instances, depending upon the proximity of potentially

exposed individuals, continuous monitoring may be required during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence.

4.0 VOC MONITORING, RESPONSE LEVELS, AND ACTIONS

VOCs must be monitored at the downwind perimeter of the immediate work area (i.e. the exclusion zone) on a continuous basis or as otherwise specified. Upwind concentrations should be measured at the start of each workday and periodically thereafter to establish background conditions. The monitoring work will be performed using a photoionization detector (PID) equipped with a 10.6 ev lamp. The equipment will be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment should be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

- If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the15-minute average, work activities must be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.
- If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities must be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.
- If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shut down.
- All 15-minute readings must be recorded and be available for State (DEC and DOH) personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded.

5.0 PARTICULATE MONITORING, RESPONSE LEVELS, AND ACTIONS

Particulate concentrations should be monitored continuously at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring should be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The

equipment must be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration should be visually assessed during all work activities.

- If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m^3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust-suppression techniques must be employed. Work may continue with dust-suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 mcg/m^3 above the upwind level and provided that no visible dust is migrating from the work area.
- If, after implementation of dust-suppression techniques, downwind PM-10 particulate levels are greater than 150 mcg/m^3 above the upwind level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust-suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/m^3 of the upwind level and in preventing visible dust migration.

All readings must be recorded and be available for State (NYSDEC and NYSDOH) personnel to review.

6.0 SPECIAL REQUIREMENTS FOR WORK WITHIN 20 FEET OF POTENTIALLY EXPOSED INDIVIDUAL STRUCTURES

When work areas are within 20 feet of potentially exposed populations or occupied structures, the continuous monitoring locations for VOCs and particulates must reflect the nearest potentially exposed individuals and the location of ventilation system intakes for nearby structures. The use of engineering controls such as vapor/dust barriers, temporary negative-pressure enclosures, or special ventilation devices should be considered to prevent exposures related to the work activities and to control dust and odors. Consideration should be given to implementing the planned activities when potentially exposed populations are at a minimum, such as during weekends or evening hours in non-residential settings.

- If total VOC concentrations opposite the walls of occupied structures or next to intake vents exceed one (1) ppm, monitoring should occur within the occupied structure(s). Depending upon the nature of contamination, chemical-specific colorimetric tubes of sufficient sensitivity may be necessary for comparing the exposure point concentrations with appropriate pre-determined response levels (response actions should also be pre-determined). Background readings in the occupied spaces must be taken prior to commencement of the planned work. Any unusual background readings should be discussed with NYSDOH prior to commencement of the work.
- If total particulate concentrations opposite the walls of occupied structures or next to intake vents exceed 150 mcg/m^3, work activities should be suspended until controls are

implemented and are successful in reducing the total particulate concentration to 150 mcg/m^3 or less at the monitoring point.

- Depending upon the nature of contamination and remedial activities, other parameters (e.g., explosivity, oxygen, hydrogen sulfide, carbon monoxide) may also need to be monitored. Response levels and actions should be pre-determined, as necessary, for each site.

Appendix H:

Citizen Participation Plan

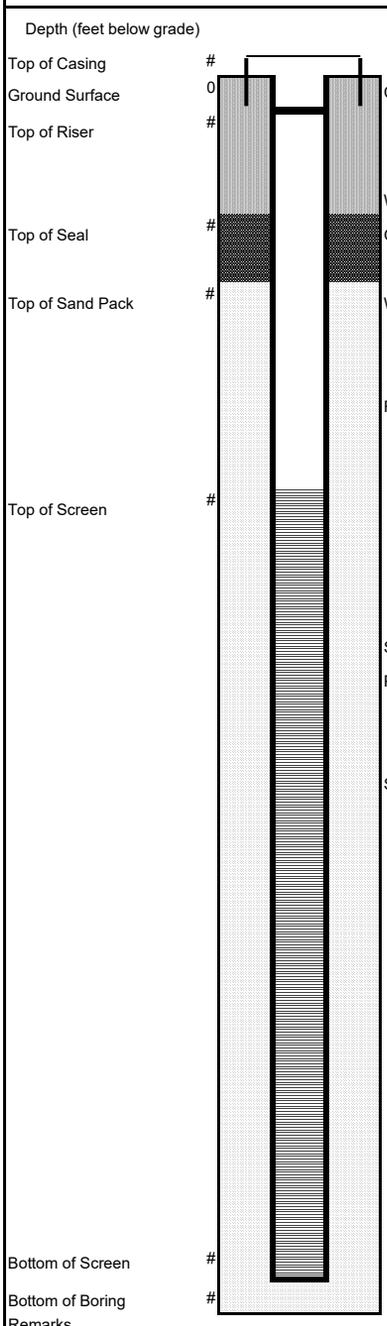
Appendix J:

Well Construction Log

SESI CONSULTING ENGINEERS	PROJECT NAME:		MONITORING WELL NO.	
	PROJECT LOCATION:		JOB NO.	
			GROUND ELEVATION:	

BORING BY:	DATE STARTED		DEVELOPMENT PERIOD		INSIDE CASING DIAMETER (in)	
INSPECTOR:	DATE COMPLETED		DEVELOPMENT METHOD		BOREHOLE DIAMETER (in)	
NJ DEP PERMIT NO.:	DATE DEVELOPED		DEVELOPMENT RATE	# gpm	INITIAL WATER LEVEL (ft):	

WELL CONSTRUCTION	DEPTH (ft)	Sample	Blows on Spoon 0/6	6/12	12/18	18/24	REC (in)	SOIL DESCRIPTION AND STRATIFICATION	P.I.D.
	0								



Approximate Change in Strata: _____ Inferred Change in Strata: _ _ _ _ _ _ _ _ _ _ _ _ _

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted. Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.